

Electricity Distribution Information Disclosure (Aurora Energy Limited) Amendment Determination 2021

[2021] NZCC 12

The Commission:

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Date of decision:

31 August 2021



Dr Derek Johnston, Commissioner

Dated at Wellington this 31st day of August 2021

COMMERCE COMMISSION

Wellington, New Zealand

Determination history		
Determination date	Decision number	Determination name
1 October 2012	[2012] NZCC 22	Electricity Distribution Information Disclosure Determination 2012
24 March 2015	[2015] NZCC 6	2015 Amendment to the Electricity Distribution Information Disclosure Determination 2012
21 December 2017	[2017] NZCC 33	Electricity Distribution Information Disclosure Amendments Determination 2017
31 August 2021	[2021] NZCC 12	Electricity Distribution Information Disclosure (Aurora Energy Limited) Amendment Determination 2021

[Drafting notes:

- This amendment determination amends the Electricity Distribution Information Disclosure Determination 2012 [2012] NZCC 22 ('principal determination') to introduce new information disclosure requirements applying only to Aurora Energy Limited.
- The included amendments are made under s 52Q of the Commerce Act 1986.
- Amendments to the body of the principal determination are marked as track changes.]

Electricity Distribution Information Disclosure (Aurora Energy Limited) Amendment Determination 2021

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Under Part 4 of the Commerce Act 1986, the Commerce Commission makes the following determination:

1. TITLE

- (a) This determination is the Electricity Distribution Information Disclosure (Aurora Energy Limited) Amendment Determination 2021.

2. INTERPRETATION

- (a) In this determination (excluding Appendices A and B), the words or phrases in bold type bear the following meanings:
- (i) **Act** has the same meaning as in the **principal determination**; and
 - (ii) **principal determination** means the Electricity Distribution Information Disclosure Determination 2012 [2012] NZCC 22.

3. DETERMINATION AMENDED

- (a) This amendment determination amends the **principal determination**.

4. COMMENCEMENT AND APPLICATION

- (a) This determination comes into force on the day on which a summary of it is published in the New Zealand Gazette under s 52Q of the **Act**.

5. PRINCIPAL DETERMINATION AMENDMENTS

- (a) Replace the contents page of the **principal determination** with the contents page in Appendix A.
- (b) The amendments to the body of the **principal determination** are the deletions, substitutions, and additions to the attached copy of the **principal determination** that are tracked in Appendix B.

Appendix A:

ELECTRICITY DISTRIBUTION INFORMATION DISCLOSURE DETERMINATION 2012

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Appendix B:

PART 1 GENERAL PROVISIONS

1.1 TITLE

- 1.1.1 This determination is the Electricity Distribution Information Disclosure Determination 2012.

1.2 COMMENCEMENT DATE

- 1.2.1 This determination consolidates all amendments to the **principal determination** as of 3 April 2018 and applies from the commencement of **disclosure year** 2019.

1.3 APPLICATION

- 1.3.1 This determination applies to **electricity distribution businesses** as suppliers of regulated goods and services under Part 4 of the **Act**.

1.4 INTERPRETATION

- 1.4.1 In this determination, unless the context otherwise requires—

- (1) Terms in bold type in the main body of this determination (including the attachments) have the meaning given to those terms in this clause 1.4. Terms used in the schedules are defined in Schedule 16;
- (2) Terms used in this determination that are defined in the **Act** but not in this determination, have the same meanings as in the **Act**;
- ~~(3)~~ Terms used in this determination that are defined in the **IM determination** but not in this determination have the same meanings as in the **IM determination**;
- ~~(3)~~(4) A reference to a 'Schedule' or to an 'Attachment' is to a Schedule or to an Attachment of this determination;
- ~~(4)~~(5) A word which denotes the singular also denotes the plural and vice versa;
- ~~(5)~~(6) An obligation to do something is deemed to include an obligation to cause that thing to be done;
- ~~(6)~~(7) Financial items must be measured and disclosed in accordance with **GAAP** unless otherwise required by this determination or the **IM determination**;

~~(7)~~(8) Non-financial items must be measured and disclosed in accordance with standard industry practice unless otherwise required in this determination;

~~(8)~~(9) Guidance notes in this determination are for guidance purposes only and any material referred to in the guidance notes does not form part of the determination;

~~(9)~~(10) Where any material referred to in guidance notes is inconsistent with this determination, this determination prevails; and

~~(10)~~(11) _____ Materials incorporated by reference into this determination, including standards promulgated by other bodies, are incorporated under the terms of Schedule 5 of the **Act**.

Guidance note: (refer to clause 1.4.1(~~98~~)-(109))

Commerce Commission "Input methodologies review final decision – Related party transactions – Final decision and determinations guidance" (21 December 2017), Attachment D notes the process by which materials are incorporated by reference in this determination.

1.4.2 If there is any inconsistency between the main body of this determination (this includes the attachments) and any schedule to this determination, the main body of this determination prevails.

1.4.3 In this determination the words or phrases in bold type bear the following meanings-

A

ABAA

has the meaning given in the **IM determination**

ACAM

has the meaning given in the **IM determination**

Act

means the Commerce Act 1986

Additional notice

has the meaning given in the Aurora CPP

Allocated works under construction

means, for the components of the **works under construction** roll-forward, the **works under construction** values after the

	application of clause 2.1.1 of the IM determination
Allocation methodology type	has the meaning given in the IM determination
Allocator	means the measure used to allocate operating costs or regulated service asset values that are not directly attributable as set out in clause 2.1.3 or clause 2.1.4 of the IM determination
<u>Amalgamation</u>	<u>has the meaning given in the IM determination</u>
AMP	means asset management plan
AMP planning period	has the meaning specified in clause 3.4 of Attachment A to this determination
AMP update	has the meaning specified in clause 2.6.5 of this determination
<u>Annual delivery report</u>	<u>means the report Aurora completes and publicly discloses under clause 2.5.5(1)</u>
Arm's-length transaction	has the meaning given in the IM determination <i>Guidance note: (refer to clause 1.4.1(98)-(109)) This definition used in the IM determination is identical to the definition in ISA (NZ) 550.</i>
Assessed values	means the aggregate SAIDI values and SAIFI values for an assessment period, which are derived from a normalised assessment dataset

Assessment dataset	means the set of daily SAIDI values and SAIFI values for a disclosure year , with SAIDI values and SAIFI values for an interruption that spans multiple calendar days accrued to the day on which the interruption began
Asset management plan	has the meaning specified in clause 2.6.1 of this determination
Asset relocations	in relation to expenditure, means expenditure on assets where the primary driver is the need to relocate assets due to third party requests, such as for the purpose of allowing road widening or similar needs. This expenditure category includes expenditure on assets relating to the undergrounding of previously aboveground assets at the request of a third party
Asset replacement and renewal	means- (a) in relation to capital expenditure, expenditure on assets (b) in relation to operational expenditure, operational expenditure where the primary driver is the need to maintain network asset integrity so as to maintain current security and/or quality of supply standards and includes expenditure to replace or renew assets incurred as a result of- <ul style="list-style-type: none">• the progressive physical deterioration of the condition of network assets or their immediate surrounds;• the obsolescence of network assets;• preventative replacement programmes, consistent with asset life-cycle management policies; or

- the need to ensure the ongoing physical security of the **network** assets

Assets commissioned

means-

- (a) in relation to the **unallocated RAB** or **unallocated works under construction**, the sum of value of **commissioned** assets as determined in accordance with clause 2.2.11 of the **IM determination**;
- (b) in relation to the **RAB** or **allocated works under construction**, the value of the assets (as determined in accordance with paragraph (a)) which is allocated to the **electricity distribution services** in accordance with clause 2.1.1 of the **IM determination**;
- (c) in relation to forecast information, a forecast of the value of the assets (as determined in accordance with paragraph (b)) for a future **disclosure year**

Audited disclosure information

means information required to be disclosed under any of-

- (a) clauses 2.3.1 and 2.3.2 of this determination;
- (b) the **SAIDI** and **SAIFI** information disclosed under clause 2.5.1, and clauses 1.8 and 1.10 of Attachment C;
- (c) the **related party transactions** information disclosed under clauses 2.3.8, 2.3.10-2.3.12;
- (d) the explanatory notes disclosed in boxes 1 to 11 of Schedule 14 under clause 2.7; and
(e) clauses 1.5-1.7 of Attachment C

Aurora

means Aurora Energy Limited or any subsequent entity or entities that succeeds Aurora Energy Limited because of an amalgamation, merger, or major transaction

<u>Aurora CPP</u>	<u>means the Aurora Energy Limited Electricity Distribution Customised Price-Quality Path Determination 2021 [2021] NZCC 3</u>
<u>Aurora pricing region</u>	<u>means a part of Aurora’s network for which Aurora sets prices specific to that part of Aurora’s network under its pricing methodology, provided—</u> <u>(a) the total circuit length of the electricity lines supplying electricity distribution services and capable of conveying electricity at 3.3 kV or greater, in that part of the network, is at least 25 km;</u> <u>(b) the electricity conveyed to that part of the network is at least 20 GWh per annum;</u> <u>and</u> <u>(c) that part of the network supplies electricity distribution services to at least 2000 ICPs.</u>
<u>Average domestic consumer</u>	<u>means a notional person that consumes or acquires from the network 9000kWh of electricity per year in respect of their principal place of residence</u>

B

C

Capital contributions	has the meaning given in the IM determination
Capital expenditure	means- (a) in relation to the unallocated works under construction , costs- (i) incurred in the acquisition or development of an asset during the disclosure year that is, or is intended to be, commissioned ; and (ii) that are included or are intended to be included in the value of assets

- commissioned** relating to the **unallocated RAB**;
- (b) in relation to the Report on **related party transactions**, costs-
 - (i) incurred in the acquisition or development of an asset during the **disclosure year** that is, or is intended to be, **commissioned**; and
 - (ii) that are included or are intended to be included in the value of **assets commissioned** relating to the **RAB**; and
 - (iii) that are as a result of **related party transactions**;
- (c) in all other instances, costs-
 - (i) incurred or forecast to be incurred in the acquisition or development of an asset during the **disclosure year** that is, or is intended to be, **commissioned**; and
 - (ii) that are included or are intended to be included in the value of **assets commissioned** relating to the **RAB**

Causal relationship	has the meaning given in the IM determination
Class B (planned interruptions on the network)	means a planned interruption initiated by the EDB
Class C (unplanned interruptions on the network)	means an unplanned interruption originating within the network of the EDB
Commencement date	means the date specified in clause 1.2.1 of this determination
Commission	means the Commerce Commission
Commissioned	has the meaning given in the IM determination
Community trust	has the meaning given in s 54D(2) of the Act

Connection point

see the definition of **ICP**

Complaint

means an expression of dissatisfaction received by **Aurora** about an aspect of **Aurora's supply of electricity distribution services**

Constant prices

means, in relation to the prospective disclosures made under clauses 2.6.1 and 2.6.3, and subclause 2.6.6(1) of this determination, prices expressed in New Zealand dollars as at the mid-point of the **current year**. Constant price expenditure forecasts are forecasts based on constant price assumptions

Consumer

means-

(a) in relation to clauses 2.4.23 and 2.4.24 of this determination, the definition given in s 54D(2) of the **Act**;

(b) for the purpose of information disclosure requirements relating to **Aurora's customer charter and consumer compensation arrangement, a person that consumes electricity distribution services supplied by Aurora; and**

(b)(c) in all other instances, a **person** that consumes or acquires **electricity lines services**

Consumer compensation arrangement

means an arrangement an **EDB** adopts to compensate **consumers** in a prescribed manner (by credit, reimbursement, or another appropriate means) if the **EDB** fails to meet specified standards of performance in supplying **electricity distribution services** to those **consumers**

Consumer connection

in relation to expenditure, means **expenditure on assets** where the **primary driver** is the establishment of a new customer **connection point** or alterations to an existing customer **connection point**. This expenditure category includes **expenditure on assets** relating to-

- (a) connection assets and/or parts of the **network** for which the expenditure is recoverable in total, or in part, by a contribution from the customer requesting the new or altered **connection point**; and
- (a) both electricity injection and offtake points of connection

Consumer connections

in relation to the number of connections, means the number of new customer **connection points** established and alterations made to an existing customer **connection point** during the year, and includes both electricity injection and offtake points of connection

Consumer-controlled

means an **EDB** that is a **community trust, customer co-operative, or customer trust** or is controlled by 1 or more such **community trust, customer co-operative, or customer trust**; and, for the purposes of this definition, a **EDB** is controlled by 1 or more such **community trust, customer co-operative, or customer trust** if it or they together directly or indirectly—

- (a) control the composition of the board or other governing body of the **EDB**;
- (b) are in a position to exercise, or control the exercise of, more than one-half the maximum number of votes that can be exercised at a meeting of the shareholders or members or beneficiaries of the **EDB**;
- (c) hold more than one-half of the issued capital of the **EDB**; or
- (d) are entitled to receive more than one-half of every dividend or other distribution paid by the **EDB**

Consumer group

means the category of **consumer** used by the **EDB** for the purposes of setting **prices**

Contract	means a contract for the supply of goods or services (or both) whether or not the contract, or any part of the contract, is in writing and, for the avoidance of doubt, includes- (a) a contract under which goods or services (or both) are being supplied, although some or all of the terms and conditions in relation to the supply of those goods or services have not been settled; and (b) any operating agreement, side letter, or documentation that influences, adjusts or amends the terms and conditions of the contract
Controlling consumers	in relation to a consumer-controlled EDB , means all the income beneficiaries or shareholders, as the case may be, of the community trusts, customer co-operatives, or customer trusts that constitute or control that EDB
Cost of financing	means the cost of financing incurred by an EDB and accumulated during the construction phase of a project that creates a new network asset, determined in accordance with clause 2.2.11(2) of the IM determination and allocated to the electricity distribution services in accordance with clause 2.1.1 of the IM determination
<u>Cost of supply model</u>	<u>means a financial model that Aurora uses to allocate target revenue, for example, across the Aurora pricing regions and amongst each of Aurora's consumer groups</u>
CPP	has the meaning given in the IM determination
<u>CPP determination</u>	<u>has the meaning given in the IM determination</u>

<u>CPP regulatory period</u>	<u>means the period to which a CPP determination relates</u>
Current year or CY	means- (a) in relation to the historic disclosures made under clause 2.3.1 of this determination, the disclosure year of the report (b) in relation to the prospective disclosures made under clauses 2.6.1 and 2.6.3, and subclause 2.6.6(1) of this determination, the disclosure year in which the report is prepared
Customer co-operative	has the meaning given in s 54D(2) of the Act
<u>Customer charter</u>	<u>means a document that describes an EDB's relationship with its consumers, including, for example, what consumers can expect from the EDB in its supply of electricity distribution services</u>
Customer trust	has the meaning given in s 54D(2) of the Act
CY, CY-X or CY+X	means (a) the current year ; or (b) where a '-' precedes 'X', the Xth year preceding the current year ; or (c) where a '+' precedes the 'X', the Xth year following the current year
	D
Direct billing	in relation to expenditure, means operational expenditure associated with directly billing end consumers and recovering payments due. This includes billing services, credit and debtor management, associated customer call centres, and customer account management
Directly attributable	has the meaning given in the IM determination

Director	has the meaning given in the IM determination
Disclosure year	means the 12-month period ending on 31 March of the year the disclosure relates to or, if the term disclosure year is combined with a year, the 12-month period ended on 31 March of that year
Discretionary discounts and customer rebates	has the meaning given in the IM determination
Distributed generation	has the meaning given in the Electricity Industry Participation Code 2010 and includes equipment used for generating electricity on the EDB's network that is connected and operated by the EDB
Distribution voltage	means 3 phase nominal voltage- (a) over 1 kV and up to and including 30 kV ; and (b) excludes those voltages used within the network in the role or manner of a subtransmission voltage
<u>DPP determination</u>	<u>means the Electricity Distribution Services Default Price-Quality Path Determination 2020 [2019] NZCC 21</u>
DPP regulatory period	has the meaning given in the IM determination
	E
EDB (or electricity distribution business)	means EDB as that term is defined in the IM determination
Electrical contracting services	means the following services, when provided under a contract between the EDB and a related party - (a) construction and maintenance

- (b) **network** management
- (c) **vegetation management**
- (d) connection and disconnection services
- (e) load control

Electricity distribution services	has the meaning given in the IM determination
Electricity lines services	has the meaning given in s 54C of the Act
Electricity retailer	means a person who supplies electricity to another person(s) for any purpose other than for re-supply by the other person(s)
Embedded network	has the meaning given in Part 1 of the Electricity Industry Participation Code 2010
Error	means incorrect information disclosed in accordance with the principal determination as amended at the time of the disclosure, in such a way that- <ul style="list-style-type: none">(a) the data is incorrect;(b) a statement is incorrect; or(c) the compilation of disclosed information is inconsistent with the principal determination as amended at the time of disclosure; and is not where- <ul style="list-style-type: none">(d) the correction is to the initial RAB;(e) an estimate has changed due to new information becoming available;(f) the change is a lost and found assets adjustment;
Expenditure on assets	means the expenditure relating to costs included or expected to be included in a closing RAB value and is equal to capital expenditure plus value of capital contributions less value of vested assets less cost of financing , where capital expenditure has meaning I or, in respect of related party

transactions, meaning (b) as defined in this determination

F

Fault

means a physical condition that causes a device, component or **network** element to fail to perform in the required manner

Feeder SAIDI

means, in respect of a feeder line on a **network**, the contribution to **network SAIDI of interruptions occurring on the feeder line**

Feeder SAIFI

means, in respect of a feeder line on a **network**, the contribution to **network SAIFI of interruptions occurring on the feeder line**

Financial distribution

means-

- (a) **discretionary discounts and customer rebates;**
- (b) dividend or equivalent owner payment to a **community trust, customer trust or co-operative** where the **EDB** recommends how the payment should be allocated amongst **consumers**; or
- (c) dividend or equivalent owner payment to a **community trust, customer trust or co-operative** where the **EDB** makes the allocation to **consumers** on behalf of the **community trust, customer trust or customer co-operative**

Forecast expenditure

means, in relation to-

- (a) current **disclosure year**, the forecast expenditure for the current **disclosure year** disclosed under subclauses 2.6.6(1)(a) and 2.6.6(1)(b) of this determination immediately prior to the start of the current **disclosure year**
- (b) **regulatory period**, the forecast expenditure for the **disclosure years** from the start of the **regulatory period** to the

current **disclosure year** disclosed under Part 5 of the **IM determination** where a **CPP** is in place for the current **disclosure year** or disclosed under subclauses 2.6.6(1)(a) and 2.6.6(1)(b) of this determination prior to the start of the **disclosure year** preceding the **regulatory period** where a **CPP** is not in place for the current **disclosure year**

G

GAAP means generally accepted accounting practice in New Zealand, as defined in the **IM determination**

GWh means gigawatt-hour

I

ICP (or connection point) means a point of connection on a local **network** or **embedded network** which the **EDB** nominates as the point at which an **electricity retailer** will be deemed to supply electricity to a **consumer**

IM determination means the Electricity Distribution Services Input Methodologies Determination 2012 [2012] NZCC 26, including amendments in effect at the time this determination comes into force

Independent appraiser means-

- (a) the **independent auditor**; or
- (b) a **person** who-
 - (i) an **EDB** considers is qualified to publicly offer professional services to clients in connection with the

requirements specified in clause 2.8.4;

- (ii) has no relationship with, or interest in, the **EDB** that is likely to involve a conflict of interest;
- (iii) has not assisted with the compilation of the information or provided advice or opinions (other than in relation to audit reports) on the methodologies or processes used in compiling the information; and
- (iv) is not associated with nor directed by any **person** who has provided any such assistance, advice, or opinion

Independent auditor

means a **person** who-

- (a) is qualified for appointment as auditor of a company under the Companies Act 1993 or, where the **EDB** is a public entity (as defined in s 4 of the Public Audit Act 2001), is the Auditor-General;
- (b) has no relationship with, or interest in, the **EDB** that is likely to involve a conflict of interest;
- (c) has not assisted with the compilation of the information or provided advice or opinions (other than in relation to audit reports) on the methodologies or processes used in compiling the information; and
- (d) is not associated with nor directed by any **person** who has provided any such assistance, advice, or opinion

Independent expert

means a person who—

- (a) is qualified to offer professional services to clients and provide an opinion on one or more of the areas under clause 2.8.5A; and
- (b) has no direct or indirect relationship with, or interest in, the EDB in question, that is likely to involve a conflict of interest between his, her or its duties to the EDB and his, her or its duties to the Commission

Indirectly affected data and statements

means data or statements which are incorrect only because they relied on disclosed data or statements that are affected by an **error**

Initial RAB

has the meaning given in the **IM determination**

Interruption

in relation to the supply of **electricity lines services** to a **consumer** by means of a prescribed voltage electric line, means the cessation of supply of **electricity lines services** to that **consumer** for a period of 1 minute or longer, other than by reason of disconnection of that **consumer**-

- (a) for breach of the **contract** under which the **electricity lines services** are provided;
- (b) as a result of a request from the **consumer**; or
- (c) as a result of a request from the **consumer's electricity retailer**; or for the purpose of isolating an unsafe installation

ISA (NZ) 550

means *International Standard on Auditing (New Zealand) 550, Related Parties*, issued by the New Zealand Auditing and Assurance Standards Board of the External Reporting Board in July 2011 and amended effective 15 December 2016, under s 24(1)(b) of the Financial Reporting Act 1993

ISAE (NZ) 3000

means *International Standard on Assurance Engagements (New Zealand) 3000, Assurance Engagements Other than Audits or Reviews of Historical Financial Information*, issued by the New Zealand Auditing and Assurance Standards Board of the External Reporting Board in July 2014, under s 12(b) of the Financial Reporting Act 2013

Guidance note: (refer to clause 1.4.1(~~98~~)-(109))

Commerce Commission “Input methodologies review final decision – Related party transactions – Final decision and determinations guidance” (21 December 2017), Attachment D notes the process by which materials are incorporated by reference in this determination.

K

km

means kilometre

kV

means kilovolt

kVA

means kilovolt ampere

kWh

means kilowatt hour

L

Legislative and regulatory

in relation to expenditure, means **expenditure on assets** where the **primary driver** is a new regulatory or legal requirement that results in the creation of, or modification to, **network assets**

Line charge revenue

means revenue from **prices**

Lost and found assets adjustment

means-
(a) in relation to the **unallocated RAB**, the value of found assets as determined in accordance with clause 2.2.12 of the **IM**

determination, less the value of lost assets. The value of a lost asset is the unallocated opening **RAB** value of the asset less regulatory depreciation as unallocated opening **RAB** value and regulatory depreciation are determined in accordance with the **IM determination**

- (b) in relation to the **RAB**, the value of the asset (as determined in accordance with paragraph (a)) which is allocated to **electricity distribution services** in accordance with clause 2.1.1 of the **IM determination**
- (c) in relation to the regulatory tax asset base roll-forward, the sum of regulatory tax asset values for found assets less the sum of regulatory tax asset values of lost assets, where 'found assets' and 'lost assets' have the meanings given in the **IM determination**

Low voltage (or LV)

means the nominal Alternating Current (AC) voltage of less than 1000 volts or the assets of the **EDB** that are directly associated with the transport or delivery of electricity at those voltages

M

Major transaction

has the meaning given in clause 5.6.4 of the IM determination

Mark-up

means the percentage margin charged on the directly attributable cost incurred by the **related party** in providing a good or service which is included in the price of the good or service

Material projects and programmes

means projects or programmes with actual or forecast total expenditure greater than the materiality threshold that is developed and applied by the **EDB**

Merger

means a transaction under which an EDB takes over, or otherwise merges with, any other EDB other than by a major transaction or amalgamation or under Part 13 of the Companies Act 1993, which includes:

- (a) the purchase of all the assets of another EDB;
- (b) the acquisition of sufficient shares in another EDB to have an interest in the other EDB sufficient to enable it, whether directly or indirectly, to exert a substantial degree of influence over the activities of the other EDB; or
- (c) a scheme of arrangement under Part 15 of the Companies Act 1993 having like effect

N

Network

means the fixed assets used by a **EDB** to provide **electricity lines services**

Nominal New Zealand dollars

in relation to an expenditure or revenue forecast, means the New Zealand dollar prices expected to apply in the year of the transaction

Non-network assets	means assets related to the provision of electricity lines services but that are not a network asset, and include- (a) information and technology systems; (b) asset management systems; (c) office buildings, depots and workshops; (d) office furniture and equipment; (e) motor vehicles; (f) tools, plant and machinery; and (g) any other assets under GAAP that are not network assets
Non-standard contract	means a contract for electricity distribution services that is not a standard contract
Normalised assessment dataset	means an assessment dataset normalised in accordance with the calculations set out in Attachment B
O	
Operating cost	has the meaning given in the IM determination
Operational expenditure	means operating costs after applying clause 2.1.1 of the IM determination , except in relation to the Report on related party transactions where it means operating costs from related party transactions as determined after applying clause 2.1.1 of the IM determination and clause 2.3.6 of this determination
Original disclosure	means disclosures made in accordance with the principal determination as amended at the time of the disclosure which contains a material or non-material error
Other reliability, safety and environment	in relation to expenditure, means expenditure on assets where the primary driver is to improve network reliability or safety or to mitigate the environmental impacts of the network , but is not included in either of the

	<p>quality of supply or legislative and regulatory categories. For example, this category may include expenditure on assets where the primary driver is to ensure staff safety or meet the EDB's environmental policies</p>
OVABAA	has the meaning given in the IM determination
	P
Person	has the meaning as defined in s 2 of the Act
<u>Planned accumulated SAIDI limit</u>	<u>has the meaning as defined in the Aurora CPP</u>
<u>Planned accumulated SAIFI limit</u>	<u>has the meaning as defined in the Aurora CPP</u>
Planned interruption	means any interruption in respect of which not less than 24 hours' notice was given, either to the public or to all electricity consumers affected by the interruption
<u>Planned interruption cancelled with notice</u>	<u>means a planned interruption that Aurora cancels by giving, either to the public or to all electricity consumers affected by the cancellation, no less than 24 hours' notice before the scheduled start time of the planned interruption</u>
<u>Planned interruption cancelled with less than 10 working days' notice</u>	<u>means a planned interruption that Aurora cancels by giving, either to the public or to all electricity consumers affected by the cancellation, more than 24 hours' notice but less than 10 working days' notice, before the scheduled start time of the planned interruption</u>
<u>Planned interruption cancelled without notice</u>	<u>means a planned interruption that Aurora cancels but which is not a planned interruption cancelled with notice</u>

<u>Planned SAIDI values</u>	<u>means SAIDI values based on Class B (planned interruptions on the network) on a network</u>
<u>Planned SAIDI assessed value</u>	<u>has the meaning as defined in the Aurora CPP</u>
<u>Planned SAIFI values</u>	<u>means SAIFI values based on Class B (planned interruptions on the network) on a network</u>
<u>Planned SAIFI assessed value</u>	<u>has the meaning as defined in the Aurora CPP</u>
Prescribed contract	in relation to an EDB , means – (a) a contract under which the EDB supplies electricity lines services ; or (b) a contract for related services , if goods or services are to be supplied under the contract by— (i) the EDB ; or (ii) a person that is a related party of the EDB ; or (iii) a person that supplies electricity lines services by means of works owned by the EDB ; or (iv) a person that is a related party of a person of the kind referred to in subclause (iii)
Prescribed terms and conditions	means, in relation to a contract for the supply of electricity lines services or for related services , the terms and conditions of the contract that— (a) describe the goods or services to be supplied under the contract ; (b) determine, or provide for the determination of, the quantity or amount of those goods or services; (c) specify, determine, or provide for the determination of the-

- (i) **price** at which those goods or services are to be supplied;
- (ii) timing of payment for those goods or services;
- (iii) security for payment for those goods or services; and
- (iv) **EDB's** obligations and responsibilities (if any) to **consumers** in the event that the supply of **electricity lines services** to **consumers** is interrupted

Price component	means the various tariffs, fees and charges that constitute the components of the total price paid, or payable, by a consumer
Prices	has the meaning given in the IM determination
Pricing principles	means, in relation to the supply of electricity distribution services , the distribution pricing principles as published by the Electricity Commission in March 2010, adopted by the Electricity Authority, and amended by the Electricity Authority from time to time
Pricing strategy	means a decision made by the Directors of the EDB on the EDB's plans or strategy to amend or develop prices in the future, and recorded in writing
Primary driver	means the primary reason for a decision to incur a cost in the year the cost was incurred or forecast to be incurred. For example, an asset may be relocated at the request of a third party and, at the same time, capacity on the asset increased to take account of expected future demand. If it is the third party request that required the asset to be relocated at that time, then the expenditure on

assets would be allocated to **asset relocation**. If the deadline for relocating the asset was not imminent, but the project had to be completed to allow for the increase in capacity, then the **expenditure on assets** would be allocated to **system growth**.

Where there is more than one driver for a cost, and the cost is a significant proportion of **operational expenditure** or **expenditure on assets**, expenditure may be apportioned between expenditure categories according to the relative importance of each driver to the decision, or the project divided into cost categories

Principal determination	means the <i>Electricity Distribution Information Disclosure Determination 2012 [2012] NZCC 22</i> , as published on 1 October 2012
Proxy asset allocator	has the meaning given in the IM Determination
Proxy cost allocator	has the meaning given in the IM Determination
Publicly disclose	means to- (a) disclose the information to the public on the Internet at the EDB's usual publicly accessible website; (b) make copies of the information available for inspection by any person during ordinary office hours, at the principal office of the EDB making the public disclosure and (c) within 10 working days of being requested to do so by any person, provide that person with a copy of the information, either by post or for collection (during ordinary office hours) from that principal office, whichever the person prefers; and (d) within 5 working days after the information is disclosed to the public, provide a copy of the information to the Commission in the

form that it is disclosed to the public and in an electronic format that is compatible with Microsoft Excel or Microsoft Word (as the case may be),
and **public disclosure** and **publicly disclosing** have corresponding meanings

Q

Quality of supply

in relation to expenditure, means **expenditure on assets** where the **primary driver** is the need to meet improved security and/or quality of supply standards. This may include expenditure to-

- (a) reduce the overall **interruption/fault** rate of the **network**;
- (b) reduce the average time that **consumers** are affected by **planned interruptions** and/or **unplanned interruptions**; or
- (c) reduce the average number of **consumers** affected by **planned interruptions** and/or **unplanned interruptions**

R

RAB

means regulatory asset base and for the components of the RAB roll-forward, the values after applying clause 2.1.1 of the **IM determination**

Record

has the meaning given in section 4 of the Public Records Act 2005

Reference dataset

means the set of daily **SAIDI values** and **SAIFI values** for the **reference period**, with **SAIDI values** and **SAIFI values** for an **interruption** that spans multiple calendar days accrued to the day on which the **interruption** began

Reference period

means the period 1 April 2004 to 31 March 2009

Regulated service	has the meaning given in the IM determination
Regulated service asset values	has the meaning given in the IM determination
Regulatory period	has the meaning given in the IM determination
Related party	has the meaning given in the IM determination <i>Guidance note: (refer to clause 1.4.1(98)- (109)) Commerce Commission “Input methodologies review final decision – Final decision and determinations guidance” (21 December 2017), Attachment A notes examples of related parties.</i>
Related party transaction	has the meaning given in the IM determination
Related services	means goods or services (other than the supply or conveyance of electricity or electrical appliances) supplied or to be supplied under a contract in any case where- (a) there is a linkage between- (i) that contract ; and (ii) a contract for the supply or conveyance of electricity by reason that the consideration for the supply of those goods or services is linked to, or combined with, payment for the supply or conveyance of that electricity; and (b) the monetary value of the goods or services supplied, or to be supplied, under the contract referred to in (a)(i), in respect of- (i) the period of 12 months immediately before the information relating to the contract for the supply or conveyance

of electricity referred to in (a)(ii) is **publicly disclosed** as required by clauses 2.4.9 or 2.4.12 of this determination; or

(ii) the period of 12 months immediately after that information is **publicly disclosed**-

amounts to or will amount to more than 1% of the monetary value or projected monetary value of the **contract** referred to in (a)(ii)

Routine and corrective maintenance and inspection

in relation to expenditure, means **operational expenditure** where the **primary driver** is the activities specified in planned or programmed inspection, testing and maintenance work schedules and includes-

- (a) **fault** rectification work that is undertaken at a time or date subsequent to any initial **fault** response and restoration activities
- (b) routine inspection
- (c) functional and intrusive testing of assets, plant and equipment including critical spares and equipment
- (d) helicopter, vehicle and foot patrols, including negotiation of landowner access
- (e) asset surveys
- (f) environmental response
- (g) painting of **network** assets
- (h) outdoor and indoor maintenance of substations, including weed and vegetation clearance, lawn mowing and fencing
- (i) maintenance of access tracks, including associated security structures and weed and vegetation clearance
- (j) customer-driven maintenance
- (k) notices issued

S

SAE 3100

means *Standard on Assurance Engagements 3100 – Compliance Engagements*, issued by the External Reporting Board in October 2014 and incorporating amendments up to August 2014 under s 24(1)(b) of the Financial Reporting Act 1993

Guidance note: (refer to clause 1.4.1(~~89~~)-(~~109~~))

Commerce Commission “Input methodologies review final decision – Related party transactions – Final decision and determinations guidance” (21 December 2017), Attachment D notes the process by which materials are incorporated by reference in this determination.

SAIDI (System Average Interruption Duration Index)

means the average forced sustained **interruption** duration per **connection point** served per year, measured in minutes. **Connection point** numbers are to be the average for the **disclosure year**

SAIDI values

means system average interruption duration index values based on **Class B (planned interruptions on the network)** and **Class C (unplanned interruptions on the network)**

SAIFI (System Average Interruption Frequency Index)

means the average forced sustained **interruption** frequency per **connection point** served per year, measured in frequency per year. **Connection point** numbers are to be the average for the **disclosure year**

SAIFI values

means system average interruption frequency index values based on **Class B (planned interruptions on the network)** and **Class C (unplanned interruptions on the network)**

Secondary assets

means **network** assets, including ripple injection systems, SCADA, protection relays and telecommunications systems, that do not

carry the energy that is distributed to **consumers**

Self-assessment rating

means, in respect of an aspect of an EDB's performance in supplying electricity distribution services, a numerical rating from 1 to 5, with '1' being the lowest rating and '5' being the highest rating

Service interruptions and emergencies

In relation to expenditure, means **operational expenditure** where the **primary driver** is an unplanned instantaneous event or incident that impairs the normal operation of **network** assets. This relates to reactive work (either temporary or permanent) undertaken in the immediate or short term in response to an unplanned event. Includes back-up assistance required to restore supply, repair leaks or make safe. It also includes operational support such as mobile generation used during the outage or emergency response. It also includes any necessary response to events arising in the **transmission system**. It does not include expenditure on activities performed proactively to mitigate the impact such an event would have should it occur. Planned follow-up activities resulting from an event which were unable to be permanently repaired in the short term are to be included under **routine and corrective maintenance and inspection**

Shared asset

means a **network** asset used by more than one **consumer** in order to receive **electricity lines services**

Sole use assets

means assets connected to the **network** for use by only 1 connecting **consumer** in order to receive **electricity lines services**

Special contract term

means –
(a) a non-price term in a **contract** which materially differs from the terms which

the parties in their respective positions would usually include in an arm's length **contract**; or

- (b) the omission of a material non-price term from a **contract**, when the parties in their respective positions would usually include that term in an arm's length **contract**; or
- (c) a non-price term in a **contract** resulting from a tender process, which materially varies from, or was not included in, the contractual basis on which the tender proposals were requested or the terms proposed by the lowest qualifying tender from an unrelated party, which credibly could have performed the services

Standard contract

means any **contract** (being a **contract** for the provision of **electricity line services**) between an **EDB** and any other **person** where-

- (a) the **price** at which the **electricity line services** are to be provided under the **contract** is determined solely by reference to a schedule of **prescribed terms and conditions**, being a schedule that is **publicly disclosed**; and
- (b) at least 4 other **persons** have such **contracts** with the **EDB**, and none of those other **persons** is a **related party** of the **EDB**, or is a **related party** of those other **persons**

Sub-network

means, in relation to **network assets of a supplier** that is-

- (a) **consumer-controlled** and the number of **controlling consumers** is less than 90% of the total number of **consumers** of the services provided by the **EDB**; the part of the **network** assets owned by the **EDB** that is substantially used to provide services to—

- (i) **consumers** that are **controlling consumers**; or
- (ii) **consumers** that are not **controlling consumers**; or
- (b) a part of the **network** that is geographically separate from all other parts of the **network**; and, for the purposes of this definition, -
- (c) the existence of **electricity distribution service** activities supplied by another supplier that are between different **electricity distribution service** activities supplied by the supplier is to be regarded as a geographical separation; but
- (d) parts of the **network** of the supplier are not to be regarded as geographically separate from all other parts of the **network** of the supplier if –
- (e) the total circuit length of the electric lines that are used in supplying the **electricity distribution services** and are capable of conveying electricity at a voltage equal to or greater than 3.3 **kV** is less than 25 **km**;
or
- (f) the electricity conveyed is less than 20 **GWh** per annum; or
- (g) the **electricity distribution services** are provided to fewer than 2000 **ICPs**.

Subtransmission

means-

- (a) in relation to **AMPs**, the transport or delivery of electricity at the following voltages: 110 **kV**, 66 **kV**, 33 **kV** and other voltages within this range (*note: whilst voltages outside this range (eg, 22 **kV**) may be used for the purposes of sub-transmission, they are not to be included in the sub-transmission reporting category*); or

(b) for any other purpose, any of the electric lines, cables, plant and equipment, operated at any **subtransmission voltage**, that are not installed in any **zone substation**. The assets include associated pilot and communication cables, switches and surge arrestors or other overhead lines and cable components installed outside of any **zone substation**

Subtransmission voltage

means 3 phase nominal voltage-

- (a) over 30 **kV** and up to and including 110 **kV**; or
- (b) 22**kV**, if that voltage is used within the **network** in the role or manner of a sub-transmission voltage

System growth

in relation to expenditure, means **expenditure on assets** where the **primary driver** is a change in demand or generation on a part of the **network** which results in a requirement for either additional capacity to meet this demand or additional investment to maintain current security and/or quality of supply standards due to the increased demand. This expenditure category includes **expenditure on assets** associated with SCADA and telecommunications assets.

System operations and network support

in relation to expenditure, means **operational expenditure** where the **primary driver** is the management of the **network** and includes expenditure relating to control centre and office-based system operations, including-

- (a) asset management planning including preparation of the **AMP**, load forecasting, **network** modelling;
- (b) **network** and engineering design (excluding design costs capitalised for capital projects);

- (c) **network** policy development (including the development of environmental, technical and engineering policies);
- (d) standards and manuals for **network** management;
- (e) **network record** keeping and asset management databases including GIS;
- (f) outage recording;
- (g) connection and customer **records**/customer management databases (including distributed generators);
- (h) customer queries and call centres (not associated with **direct billing**);
- (i) operational training for **network** management and field staff;
- (j) operational vehicles and transport;
- (k) IT & telecoms for **network** management (including IT support for asset management systems);
- (l) day to day customer management including responding to queries on new connections, disconnections and reconnections, distributed generators;
- (m) **network** planning and system studies;
- (n) logistics (procurement) and stores;
- (o) **network** asset site expenses and leases;
- (p) route/easement management (including locating cables and pipelines for third parties, mark cuts, stand-overs, high-load escorts, obstructions, plans and permits);
- (q) surveying of new sites to identify work requirements;
- (r) engineering/technical consulting services (excluding costs capitalised);
- (s) contractor/contracts management (excluding costs capitalised);
- (t) transmission operator liaison and management; and

45

(u) **network** related research and development

T

Target revenue

means the revenue that the **EDB** expects to obtain from **prices**

Terms of reference

means a deed **Aurora** enters into with an **independent expert** for the purpose of procuring an opinion from that **independent expert** under clause 2.8.5A, and which, alongside other requirements,—
(a) imposes an overriding duty on the **independent expert** to assist and advise the **Commission** on areas under clause 2.8.5A within the **independent expert's** area of expertise; and
(b) specifies the standard to which the **independent expert** will provide their opinion on the relevant areas under clause 2.8.5A

Total opening RAB value

means-

(a) in relation to the **unallocated RAB**, the sum of unallocated opening **RAB** values as determined in accordance with the **IM determination**;

(b) in relation to the **RAB**, the sum of opening **RAB** values as determined in accordance with the **IM determination**

Transmission charge

means any payment made in respect of the use of the **transmission system**. For the avoidance of doubt, this includes avoided transmission charges

Transmission system

means the national grid

U

Unallocated RAB means for the components of the **RAB** roll-forward, the values before the application of clause 2.1.1 of the **IM determination**

Unallocated works under construction means for the components of the **works under construction** roll-forward, the **works under construction** values before the application of clause 2.1.1 of the **IM determination**

Unplanned interruption means any **interruption** that is not a **planned interruption**

Unplanned SAIDI limit has the meaning as defined in the **Aurora CPP**

Unplanned SAIDI assessed value has the meaning as defined in the **Aurora CPP**

Unplanned SAIDI values means **SAIDI values** based on **Class C (unplanned interruptions on the network)** on a **network**

Unplanned SAIFI assessed value has the meaning as defined in the **Aurora CPP**

Unplanned SAIFI limit has the meaning as defined in the **Aurora CPP**

Unplanned SAIFI values means **SAIFI values** based on **Class C (unplanned interruptions on the network)** on a **network**

V

Value of capital contributions means the value of capital contributions received or expected to be received by an **EDB** in respect of the cost of assets accumulated during the construction phase of a project that creates a new **network** asset, and is determined in accordance with clause

	<p>2.2.11(1)(h) of the IM determination and allocated to the electricity distribution services in accordance with the allocation of the regulated service asset values set out in clause 2.1.1 of the IM determination</p>
Value of vested assets	<p>means the consideration incurred or expected to be incurred by an EDB in respect of vested assets that are or are expected to be accumulated during the construction phase of a project that creates a new network asset, and is determined in accordance with clause 2.2.11(1)(i) of the IM determination and allocated to the electricity distribution services in accordance with clause 2.1.1 of the IM determination</p>
Vegetation management	<p>in relation to expenditure, means operational expenditure where the primary driver is the need to physically fell, remove or trim vegetation (including root management) that is in the proximity of overhead lines or cables. It includes expenditure arising from the following activities-</p> <ul style="list-style-type: none">(a) inspection of affected lines and cables where the inspection is substantially or wholly directed to vegetation management (e.g., as part of a vegetation management contract). Includes pre-trim inspections as well as well as inspections of vegetation cut for the primary purpose of ensuring the work has been undertaken in an appropriate manner;(b) liaison with landowners including the issue of trim/cut notices, and follow up calls on notices;(c) the felling or trimming of vegetation to meet externally imposed requirements or internal policy, including operational support such as any mobile generation used during the activity.

The following activities and related costs are excluded from this category-

- (a) general inspection costs of assets subject to vegetation where this is not substantially directed to vegetation management (include in **routine and corrective maintenance and inspection**);
- (b) costs of assessing and reviewing the vegetation management policy (include in **system operations and network support**);
- (c) data collection relating to vegetation (include in **system operations and network support**);
- (d) the cost of managing a vegetation management **contract**, except as stated above (include in **system operations and network support**);
- (e) emergency work (include in **service interruptions and emergencies**)

Vested asset

has the meaning given in the **IM determination**

W

Works under construction

means-

- (a) in relation to **unallocated works under construction**, the value of q calculated using the following formula:

$$q = a + b - c + d$$

where-

a = **unallocated works under construction – preceding disclosure year**

b = **capital expenditure**

c = **assets commissioned**

d = adjustment resulting from asset allocation

- (b) in relation to **allocated works under construction**, the value (as determined in accordance with paragraph (a)) which was allocated to **electricity distribution services** in accordance with clause 2.1.1 of the **IM determination**

Worst-performing feeders

means the feeder lines on an EDB's network that, in respect of the most recent disclosure year, are in the 90th percentile or higher for one or both of the following:

- (a) feeder SAIDI; and
(b) feeder SAIFI

Z

Zone substation

means the transformers, switchgear, protection and control and Supervisory Control and Data Acquisition (SCADA) equipment, **low voltage** and station direct current systems, other secondary systems, ripple injection plant and outdoor structure installed in an electrical power substation primarily used to convert any **subtransmission voltage** to any **distribution voltage**. Zone substation assets include the land, any buildings and the value of site developments.

PART 2 DISCLOSURE REQUIREMENTS

2.1 INFORMATION DISCLOSURE

2.1.1 Subject to clause 2.11.1, from the **commencement date**;

(1) every EDB, other than Aurora, must comply with the information disclosure requirements set out in this determination, except those that apply only to Aurora, being clauses 2.4.5A, 2.5.3 to 2.5.7, 2.6.1(1)(c)(i), 2.8.5A, 2.8.5B, 2.9.5, clause 17 of Attachment A, and Attachment C; and

(2) Aurora must comply with the information disclosure requirements set out in this determination.

2.2 APPLICABLE INPUT METHODOLOGIES

2.2.1 Every EDB must apply the requirements set out in the following subparts of the **IM determination** as applicable, when complying with this determination-

- (1) Subpart 1 of part 2, cost allocation;
- (2) Subpart 2 of part 2, asset valuation; and
- (3) Subpart 3 of part 2, treatment of taxation.

2.3 FINANCIAL INFORMATION FOR THE DISCLOSURE YEAR

Annual disclosure relating to financial information for the disclosure year

2.3.1 Within 5 months after the end of each **disclosure year**, every EDB must disclose information relating to its financial position by-

- (1) Completing each of the following reports by inserting all information relating to the **electricity lines services** supplied by the EDB for that **disclosure year**-
 - (a) the Analytical Ratios set out in Schedule 1;
 - (b) the Report on Return on Investment set out in Schedule 2;
 - (c) the Report on Regulatory Profit set out in Schedule 3;
 - (d) the Report on Value of the Regulatory Asset Base (Rolled Forward) set out in Schedule 4;
 - (e) the Report on Regulatory Tax Allowance set out in Schedule 5a;

- (f) the Report on Related Party Transactions set out in Schedule 5b;
- (g) the Report on Term Credit Spread Differential Allowance set out in Schedule 5c;
- (h) the Report on Cost Allocations set out in Schedule 5d;
- (i) the Report on Asset Allocations set out in Schedule 5e;
- (j) the Report on Capital Expenditure for the Disclosure Year set out in Schedule 6a;
- (k) the Report on Operational Expenditure for the Disclosure Year set out in Schedule 6b;
- (l) the Comparison of Forecasts to Actual Expenditure set out in Schedule 7; and

(2) **Publicly disclosing** each of those reports.

2.3.2 Within 5 months and 5 working days after the end of each **disclosure year**, every **EDB** must disclose to the **Commission** information supporting the information disclosed in accordance with clause 2.3.1 by completing each of the following reports by inserting all information relating to the information supplied by the **EDB** in Schedules 5d and 5e for that **disclosure year**-

- (1) the Report Supporting Cost Allocations set out in Schedule 5f;
- (2) the Report Supporting Asset Allocations set out in Schedule 5g.

Alternative method for return on investment information

2.3.3 In completing the Report on Return on Investment in Schedule 2-

- (1) Each **EDB** must disclose information in accordance with part 2(iii) of Schedule 2 if during the first three months or last three months of the **disclosure year** the value of **assets commissioned** by the **EDB** exceeds 10% of the **total opening RAB values**;
- (2) Otherwise an **EDB** may elect to disclose information in accordance with part 2(iii) of Schedule 2.

Term credit spread differential allowance

- 2.3.4 The Report on Term Credit Spread Differential Allowance in Schedule 5c is only required to be completed by qualifying suppliers as qualifying suppliers is defined in the **IM determination**.

Allocation of assets and operating costs

- 2.3.5 In completing the Report on Cost Allocations in Schedule 5d and the Report on Asset Allocations in Schedule 5e, every **EDB** must **publicly disclose**, for each **operational expenditure** category in Schedule 5d and each asset category in Schedule 5e that includes **operating costs** and asset values that are not **directly attributable**-

- (1) A description of the **operating costs** and asset values that are not **directly attributable**;
- (2) The **allocation methodology types** used to allocate the **operating costs** and asset values that are not **directly attributable**;
- (3) Where more than one **allocation methodology type** is used, the percentage of not **directly attributable operating costs** or asset values allocated using each method;
- (4) The **allocators** used and the rationale for using each **allocator**;
- (5) Where **ABAA** or **OVABAA** methodologies are used-
 - (a) whether the **allocators** used are causal allocators, **proxy asset allocators** or **proxy cost allocators**; and
 - (b) where **proxy asset allocators** or **proxy cost allocators** are used, explain-
 - (i) why a **causal relationship** cannot be established or why it is impractical to apply a **causal relationship**; and
 - (ii) the rationale for the quantifiable measure used for each **proxy asset allocator** or **proxy cost allocator**; and
- (6) Where **ACAM** has had the effect of being a limit under the **OVABAA** methodology, provide a summary of the relevant maximum values of allocated **operating costs** or **regulated service asset values**.

Related party transactions

2.3.6 For the purpose of clause 2.3.1, the value of a good or service acquired in a **related party transaction**, or the amount received for the sale or supply of assets or goods or services in a **related party transaction**, must be set on the basis that-

- (1) the value of a good or service acquired in the **related party transaction** must be given a value not greater than if that transaction had the terms of an **arm's-length transaction**;
- (2) the value of an asset or good or service sold or supplied in the **related party transaction** must be given a value not less than if that transaction had the terms of an **arm's-length transaction**;
- (3) an objective and independent measure must be used in determining the terms of an **arm's-length transaction** for the purpose of subclauses (1) and (2); and
- (4) for the purpose of subclause (1), where a good or service is acquired in the **related party transaction**, the value of the good or service must not exceed the actual amount charged to the **EDB** by the **related party**.

Guidance note 1: (refer to clause 1.4.1(98)-(109))

Commerce Commission "Input methodologies review final decision – Related party transactions – Final decision and determinations guidance" (21 December 2017), Table B1 of Attachment B provides an illustrative list of examples of arm's length transactions and Table B2 of Attachment B provides an illustrative list of examples of non-arm's length transactions.

Guidance note 2: (refer to clause 1.4.1(98)-(109))

Commerce Commission "Input methodologies review final decision – Related party transactions – Final decision and determinations guidance" (21 December 2017), Attachment C provides illustrative guidance on the relationship between the related party rules and cost allocation rules.

2.3.7 For the purpose of clause 2.3.6(1), a **related party transaction** will be treated as if it had the terms of an **arm's-length transaction** if the good or service acquired from a **related party** is valued at the cost incurred by the **related party**, provided that this is-

- (1) fair and reasonable to the **EDB**; and

- (2) substantially the same as the cost that has been incurred or would be incurred by the **related party** in providing the same type of good or service to third parties.

2.3.8 Within 5 months after the end of each **disclosure year**, if an **EDB** has had **related party transactions** involving a procurement from a **related party** during that **disclosure year**, the **EDB** must **publicly disclose** a diagram or a description that shows the connection between the **EDB** and the **related parties** with which it has had **related party transactions** in the **disclosure year**, including for each of those **related parties**-

- (1) the relationship between the **EDB** and the **related party**;
- (2) the principal activities of the **related party**; and
- (3) the total annual expenditure incurred by the **EDB** with the **related party**.

2.3.9 An **EDB** shall not be required to comply with clauses 2.3.10-2.3.16 and 2.8.2-2.8.5 if-

- (1) the sum of its **capital expenditure** and **operational expenditure** in the **disclosure year** is less than \$20 million; or
- (2) the proportion of the sum of its **capital expenditure** and **operational expenditure** accounted for by **related party transactions** is less than 10% in the **disclosure year**.

2.3.10 Subject to clause 2.3.9, within 5 months after the end of each **disclosure year**, if an **EDB** has had **related party transactions** involving a procurement from a **related party** during that **disclosure year**, the **EDB** must **publicly disclose**-

- (1) a summary of its current policy in respect of the procurement of assets or goods or services from any **related party**; or
- (2) a summary of alternative documentation which is equivalent to a procurement policy in respect of the procurement of assets or goods or services from any **related party**.

2.3.11 Subject to clause 2.3.9, within 5 months after the end of each **disclosure year**, if an **EDB** has had **related party transactions** involving a procurement from a

related party during that **disclosure year**, the **EDB** must disclose to the **Commission**-

- (1) its current policy in respect of the procurement of assets or goods or services from any **related party**; or
- (2) alternative documentation which is equivalent to a procurement policy in respect of the procurement of assets or goods or services from any **related party**.

2.3.12 Subject to clause 2.3.9, within 5 months after the end of each **disclosure year**, if an **EDB** has had **related party transactions** involving a procurement from a **related party** during that **disclosure year**, the **EDB** must **publicly disclose**-

- (1) a description of how the **EDB** applies its current policy for the procurement of assets or goods or services from a **related party** in practice;
- (2) a description of any policies or procedures of the **EDB** that require or have the effect of requiring a **consumer** to purchase assets or goods or services from a **related party** that are related to the supply of the **electricity distribution services**;
- (3) subject to subclause (5), at least one representative example transaction from the **disclosure year** of how the current policy for the procurement of assets or goods or services from a **related party** is applied in practice;
- (4) for each representative example transaction specified in accordance with subclause (3), how and when the **EDB** last tested the arm's-length terms of those transactions; and
- (5) separate representative example transactions where the **EDB** has applied the current policy for the procurement of assets or goods or services from a **related party** significantly differently between expenditure categories.

Map of anticipated network expenditure and network constraints

2.3.13 Subject to clause 2.3.9, within 5 months after the end of each **disclosure year**, where an **EDB** has had **related party transactions** involving a procurement from a **related party** during that **disclosure year**, the **EDB** must **publicly disclose** a map of its **electricity distribution service** territory, which includes-

- (1) subject to clause 2.3.15, a brief explanatory description of the 10 largest forecast **operational expenditure** projects in the **AMP planning period** and the likely timing, value and location of the projects;

- (2) subject to clause 2.3.15, a brief explanatory description of the 10 largest forecast **capital expenditure** projects in the **AMP planning period** and the likely timing, value and location of the projects;
- (3) subject to clause 2.3.16, a brief explanatory description of possible future **network** or equipment constraints and their location, where the responses to the constraints would involve one of the 10 largest future **operational expenditure** projects in the **AMP planning period**; and
- (4) subject to clause 2.3.16, a brief explanatory description of possible future **network** or equipment constraints and their location, where the responses to the constraints would involve one of the 10 largest future **capital expenditure** projects in the **AMP planning period**.

2.3.14 For the purposes of clause 2.3.13, the map must-

- (1) identify whether the forecast or possible **operational expenditure** or **capital expenditure** is-
 - (a) already subject to a contract and, if so, whether that contract is with a **related party**;
 - (b) forecast to require the supply of assets or goods or services by a **related party**; or
 - (c) currently not indicated for supply by a **related party**; and
- (2) be consistent with the **AMP** information specified in-
 - (a) clause 11.8.3 of Attachment A on **network** or equipment constraints;
 - (b) clause 11.8.4 of Attachment A on the projected impact of demand management initiatives; and
 - (c) clause 11.10 of Attachment A on the **network** development programme.

2.3.15 For the purposes of clause 2.3.13, where an **EDB** forecasts having fewer than-

- (1) 10 forecast **operational expenditure** projects in the **AMP planning period**, the map must include all of its forecast **operational expenditure** projects; or
- (2) 10 forecast **capital expenditure** projects in the **AMP planning period**, the map must include all of its forecast **capital expenditure** projects.

2.3.16 For the purposes of clause 2.3.13, where the responses to the **network** or equipment constraints would involve fewer than-

- (1) 10 future **operational expenditure** projects in the **AMP planning period**, the map must include all future **operational expenditure** projects; or
- (2) 10 future **capital expenditure** projects in the **AMP planning period**, the map must include all future **capital expenditure** projects.

Information on capital expenditure projects

2.3.17 In completing the Report on Capital Expenditure for the Disclosure Year in Schedule 6a, every **EDB** must disclose the following information in relation to **material projects and programmes**-

- (1) Separately disclose **consumer connection** expenditure for each **consumer** type defined by the **EDB** in 6a(iii) of Schedule 6a;
- (2) For each material **asset relocation** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(v) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets relocated for each project in Schedule 14 (Mandatory Explanatory Notes);
- (3) For each material **quality of supply** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(vi) in Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);
- (4) For each material **legislative and regulatory** project in Schedule 6a-
 - (a) separately disclose a brief description of the **legislative and regulatory** requirement and the value of the project in 6a(vii) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the projects and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);

- (5) For each material **other reliability, safety and environment** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(viii) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes);
- (6) For each material **non-network assets** project in Schedule 6a-
 - (a) separately disclose a brief description of the project and its value in 6a(ix) of Schedule 6a;
 - (b) provide any additional commentary, including the purpose of the project and a description of the assets affected for each project in Schedule 14 (Mandatory Explanatory Notes).

Information on physical service life potential

2.3.18 For all assets or groups of assets where the supplier has changed the asset(s)' depreciation profile or the asset(s) was **commissioned** during the **disclosure year**, and the asset(s)' life service potential was determined by an **engineer** in accordance with clause 2.2.8 of the **IM determination**, within 5 months after the end of each **disclosure year**, the **EDB** must **publicly disclose** the report written by the **engineer** which was prepared in accordance with clause 2.2.8(3)(b) of the **IM determination**.

2.4 PRICING AND RELATED INFORMATION

Disclosure of pricing methodologies

2.4.1 Every **EDB** must **publicly disclose**, before the start of each **disclosure year**, a pricing methodology which-

- (1) Describes the methodology, in accordance with clause 2.4.3, used to calculate the **prices** payable or to be payable;
- (2) Describes any changes in **prices** and **target revenues**;
- (3) Explains, in accordance with clause 2.4.5, the approach taken with respect to pricing in **non-standard contracts** and **distributed generation** (if any);

- (4) Explains whether, and if so how, the **EDB** has sought the views of **consumers**, including their expectations in terms of **price** and quality, and reflected those views in calculating the **prices** payable or to be payable. If the **EDB** has not sought the views of **consumers**, the reasons for not doing so must be disclosed.

2.4.2 Any change in the pricing methodology or adoption of a different pricing methodology, must be **publicly disclosed** at least 20 working days before **prices** determined in accordance with the change or the different pricing methodology take effect.

2.4.3 Every disclosure under clause 2.4.1 must-

- (1) Include sufficient information and commentary to enable interested **persons** to understand how **prices** were set for each **consumer group**, including the assumptions and statistics used to determine **prices** for each **consumer group**;
- (2) Demonstrate the extent to which the pricing methodology is consistent with the **pricing principles** and explain the reasons for any inconsistency between the pricing methodology and the **pricing principles**;
- (3) State the **target revenue** expected to be collected for the **disclosure year** to which the pricing methodology applies;
- (4) Where applicable, identify the key components of **target revenue** required to cover the costs and return on investment associated with the **EDB's** provision of **electricity lines services**. Disclosure must include the numerical value of each of the components;
- (5) State the **consumer groups** for whom **prices** have been set, and describe-
 - (a) the rationale for grouping **consumers** in this way;
 - (b) the method and the criteria used by the **EDB** to allocate **consumers** to each of the **consumer groups**;
- (6) If **prices** have changed from **prices** disclosed for the immediately preceding **disclosure year**, explain the reasons for changes, and quantify the difference in respect of each of those reasons;
- (7) Where applicable, describe the method used by the **EDB** to allocate the **target revenue** among **consumer groups**, including the numerical values of

the **target revenue** allocated to each **consumer group**, and the rationale for allocating it in this way;

- (8) State the proportion of **target revenue** (if applicable) that is collected through each **price component** as **publicly disclosed** under clause 2.4.18.

2.4.4 Every disclosure under clause 2.4.1 must, if the **EDB** has a **pricing strategy**-

- (1) Explain the **pricing strategy** for the next 5 **disclosure years** (or as close to 5 years as the **pricing strategy** allows), including the current **disclosure year** for which **prices** are set;
- (2) Explain how and why **prices** for each **consumer group** are expected to change as a result of the **pricing strategy**;
- (3) If the **pricing strategy** has changed from the preceding **disclosure year**, identify the changes and explain the reasons for the changes.

2.4.5 Every disclosure under clause 2.4.1 must-

- (1) Describe the approach to setting **prices** for **non-standard contracts**, including-
 - (a) the extent of **non-standard contract** use, including the number of **ICPs** represented by **non-standard contracts** and the value of **target revenue** expected to be collected from **consumers** subject to **non-standard contracts**;
 - (b) how the **EDB** determines whether to use a **non-standard contract**, including any criteria used;
 - (c) any specific criteria or methodology used for determining **prices** for **consumers** subject to **non-standard contracts** and the extent to which these criteria or that methodology are consistent with the **pricing principles**;
- (2) Describe the **EDB's** obligations and responsibilities (if any) to **consumers** subject to **non-standard contracts** in the event that the supply of **electricity lines services** to the **consumer** is interrupted. This description must explain-
 - (a) the extent of the differences in the relevant terms between **standard contracts** and **non-standard contracts**;

- (b) any implications of this approach for determining **prices** for **consumers** subject to **non-standard contracts**;
- (3) Describe the **EDB's** approach to developing **prices** for **electricity distribution services** provided to **consumers** that own **distributed generation**, including any payments made by the **EDB** to the owner of any **distributed generation**, and including the-
 - (a) **prices**; and
 - (b) value, structure and rationale for any payments to the owner of the **distributed generation**.

Additional pricing methodology disclosure requirements for Aurora

2.4.5A Every disclosure by **Aurora** under clauses 2.4.1 and 2.4.2 must include:

- (1) Together with the information disclosed under clauses 2.4.1(1) and 2.4.2, sufficient information and commentary in a readily understandable form to enable interested **persons** to understand how **Aurora** has set **prices** for each **Aurora pricing region**;
- (2) For each **Aurora pricing region**, a worked example of how an **average domestic consumer's prices** would be calculated; and
- (3) A version of **Aurora's cost of supply model** with explanatory material that will assist interested **persons** to understand how the **cost of supply model** works.

Disclosure of capital contributions

2.4.6 Every **EDB** must at all times **publicly disclose**—

- (1) A description of its current policy or methodology for determining **capital contributions**, including—
 - (a) the circumstances (or how to determine the circumstances) under which the **EDB** may require a **capital contribution**;
 - (b) how the amount payable of any **capital contribution** is determined. Disclosure must include a description of how the costs of any assets (if applicable), including any **shared assets** and any **sole use assets** that are included in the amount of the **capital contribution**, are calculated;
 - (c) the extent to which any policy or methodology applied is consistent with the relevant **pricing principles**;

- (2) A statement of whether a **person** can use an independent contractor to undertake some or all of the work covered by the **capital contribution** sought by the **EDB**;
- (3) If the **EDB** has a standard schedule of **capital contribution** charges, the current version of that standard schedule.

2.4.7 When a **consumer** or other **person** from whom the **EDB** seeks a **capital contribution**, queries the **capital contribution** charge, (and when the charge is not covered in the standard schedule of **capital contribution** charges, or no such schedule exists) the **EDB** must, within 10 working days of receiving the request, provide reasonable explanation to any reasonable query from that **consumer** or other **person** of the components of that charge and how these were determined.

2.4.8 The requirements in clauses 2.4.6 and 2.4.7 apply if-

- (1) The **EDB** determines the amount of **capital contributions**; or
- (2) The **EDB** has or can obtain information about the policy or methodology used by another **person** to determine **capital contributions** where the **EDB** receives those **capital contributions**.

Disclosure of prescribed terms and conditions of contracts

2.4.9 Every **EDB** must, within 20 working days of entering into a **prescribed contract**, that is a **standard contract**, **publicly disclose**—

- (1) If the other party to the **contract** is an **electricity retailer**, the name of that **electricity retailer**;
- (2) In any other case, the **prescribed terms and conditions** of the **prescribed contract**.

2.4.10 Subject to section 53C(4) of the **Act**, if any **prescribed terms and conditions** of a **prescribed contract** that is also a **standard contract** (including a **prescribed contract** that was entered into before the **commencement date**) are modified, the **EDB** must, not later than 20 working days after those modifications take effect, **publicly disclose**-

- (1) The **prescribed contract** concerned;
- (2) The modifications made to the **prescribed terms and conditions**.

2.4.11 For the purposes of this section, **public disclosure** by an **EDB** of the **prescribed terms and conditions** of a **standard contract** is to be regarded as **public disclosure** by that **EDB** in relation to all of its **standard contracts** with the same **prescribed terms and conditions**.

2.4.12 Subject to section 53C(4) of the **Act**, every **EDB** must, in respect of all **prescribed contracts** that are **non-standard contracts** entered into during the **disclosure year**, no earlier than 5 months after the end of that **disclosure year**, either-

- (1) If the other party to the **contract** is an **electricity retailer**, **publicly disclose** the name of that **electricity retailer**;
- (2) In any other case, either—
 - (a) **publicly disclose** a description of the goods or services to be supplied under the **prescribed contract** and the quantity or amount of those goods or services; or
 - (b) **publicly disclose** the **prescribed terms and conditions** of each **prescribed contract**, with the exception of **prescribed terms and conditions** that specify, determine, or provide for the determination of the **price** at which goods or services are to be supplied.

2.4.13 For any **contract** for which information is **publicly disclosed** under clause 2.4.12, unless **prescribed terms and conditions** have been **publicly disclosed** under subclause 2.4.12(2)(b), every **EDB** must, within 20 working days of a request by any **person**, provide to that **person** and **publicly disclose** the **prescribed terms and conditions** of the **prescribed contract**, with the exception of **prescribed terms and conditions** that specify, determine, or provide for the determination of the **price** at which goods or services are to be supplied.

2.4.14 Clauses 2.4.15 and 2.4.16 apply to **prescribed contracts**—

- (1) For which information was disclosed in any previous **disclosure year** under clause 2.4.12 or clause 2.4.13; or
- (2) Which were entered into before the **commencement date** of this determination.

2.4.15 Subject to section 53C(4) of the **Act**, if any **prescribed terms and conditions** of a **prescribed contract** described under clause 2.4.14 are modified, every **EDB** must

immediately **publicly disclose**, no earlier than 5 months after the end of the **disclosure year** in which the **prescribed contract** was modified-

- (1) The existence of the **prescribed contract** described in clause 2.4.14 that has been modified; and
- (2) The fact of its modification.

2.4.16 Within 20 working days of a request by any **person**, the **EDB** must provide to the **person** and **publicly disclose** the **prescribed terms and conditions** of the **prescribed contract** described in clause 2.4.15, with the exception of **prescribed terms and conditions** that specify, determine or provide for the determination of the **price** at which goods and services are to be supplied.

2.4.17 Every **EDB** must, when **publicly disclosing** the **prescribed terms and conditions** under any of clauses 2.4.12, 2.4.13, or 2.4.16, include the following information-

- (1) The electricity supply capacity (in **kVA**) of the assets used for the purposes of conveying electricity under the **contract**-
 - (a) at the **ICP**, if the electricity is conveyed to a **consumer**; or
 - (b) at the point at which the electricity is supplied to any **person** other than a **consumer**;
- (2) The voltage at which the electricity is to be supplied or conveyed under the **non-standard contract**.

Disclosure of prices

2.4.18 Every **EDB** must at all times **publicly disclose**—

- (1) Each current **price** expressed in a manner that enables **consumers** to determine-
 - (a) the **consumer group** or **consumer groups** applicable to them;
 - (b) the total **price** for **electricity lines services** applicable to them;
 - (c) the **prices** represented by each **price component** applicable to them;
 - (d) the amount of each current **price** that is attributable to **transmission charges**;
- (2) The number (or estimated number) of **consumers** which must pay each **price**;

- (3) The date at which each **price** was or will be first introduced;
- (4) The **price** that was payable immediately before each current **price** (if any) expressed in the manner referred to in subclause (1).

2.4.19 Every **EDB** must, at least 20 working days before changing or withdrawing a **price** or introducing a new **price** that is payable by 5 or more **consumers**-

- (1) **Publicly disclose**-
 - (a) the information specified in clause 2.4.18 in respect of that **price**;
 - (b) an explanation of the reasons for the new **price** or the changed or withdrawn **price**;
- (2) In addition, either-
 - (a) give written notice to each **consumer** by whom that **price** is, or in the case of a withdrawn **price** would have been, payable, including the information specified in clause 2.4.18 in respect of that **price**; or
 - (b) notify **consumers** in the news section of either-
 - (i) 2 separate editions of each newspaper; or
 - (ii) news media accessible using the internet that is widely read by **consumers** connected to **EDB's network**;
 - (c) notification under subclause (2)(b) must provide details of the **price**, including-
 - (i) the changed **price** alongside the immediately preceding **price** applicable; and
 - (ii) contact details where further details of the new or changed **price** can be found including the URL of the **EDB's** publicly accessible website.

2.4.20 Every **EDB** must, in respect of-

- (1) All new **prices** payable; or
- (2) In the case of withdrawn **prices**, the **prices** which would have been payable;

by 4 or fewer **consumers**, at least 20 working days before introducing a new **price**, give written notice to each **consumer** by whom that **price** is payable, the information specified in clause 2.4.18 in respect of that **price**.

Annual disclosure of information on quantities and revenues billed

2.4.21 Within 5 months after the end of each **disclosure year**, every **EDB** must **publicly disclose** the Report on Billed Quantities and Line Charge Revenues in Schedule 8.

2.4.22 If **prices** differ between **sub-networks**, a separate Schedule 8 must be completed and **publicly disclosed** for each **sub-network**.

Disclosure of financial distributions arising from ownership interest

2.4.23 At the time an **EDB** makes a **financial distribution**, the **EDB** must **publicly disclose** —

- (1) the allocation methodology it used to make the recommendation or allocation
- (2) the value of the **financial distribution**; and
- (3) whether the **EDB** or the **community trust, customer trust** or **customer cooperative** made the allocation.

2.4.24 The description in clause 2.4.23 must provide sufficient detail that **consumers** can accurately determine their entitlement.

2.5 NON-FINANCIAL INFORMATION RELATING TO NETWORK ASSETS

Network asset reporting

2.5.1 Within 5 months after the end of each **disclosure year**, every **EDB** must—

- (1) Complete each of the following reports by inserting all information relating to the **electricity distribution services** supplied by the **EDB** for the **disclosure years** provided for in the following reports-
 - (a) the Asset Register set out in Schedule 9a;
 - (b) the Asset Age Profile set out in Schedule 9b;
 - (c) the Report on Overhead Lines and Underground Cables set out in Schedule 9c;
 - (d) the Report on Embedded Networks set out in Schedule 9d;

- (e) the Report on Network Demand set out in Schedule 9e;
 - (f) the Report on Network Reliability set out in Schedule 10; and
- (2) **publicly disclose** each of these reports.

2.5.2 If an **EDB** has **sub-networks**, within 5 months after the end of each **disclosure year**, an **EDB** must—

- (1) complete each of the following reports by inserting all information relating to the **electricity distribution services** supplied by the **EDB** in relation to each **sub-network** for the **disclosure years** provided for in the following reports-
 - (a) the Assets Register set out in Schedule 9a;
 - (b) the Report on Asset Age Profile set out in Schedule 9b;
 - (c) the Report on Overhead Lines and Underground Cables set out in Schedule 9c;
 - (d) the Report on Network Demand set out in Schedule 9e;
 - (e) the Report on Network Reliability set out in Schedule 10; and
- (2) **publicly disclose** each of these reports.

Aurora's customer charter and consumer compensation arrangement

2.5.3 Where applicable, **Aurora** must **publicly disclose**—

- (1) its **customer charter** and **consumer compensation arrangement** at all times; and
- (2) a description of any change **Aurora**—
 - (a) intends to make to its **customer charter** or **consumer compensation arrangement**, reasonably in advance of making the change; and
 - (b) makes to its **customer charter** or **consumer compensation arrangement**, as soon as reasonably practicable after making the change.

Aurora's development plan, project and programme delivery plan, and safety delivery plan

2.5.4 Aurora must do the following:

- (1) by 31 March 2022, publicly disclose Aurora's 'development plan' that describes how Aurora plans to develop and improve its—
 - (a) low voltage network practices for—
 - (i) monitoring voltage quality on the low voltage parts of Aurora's network;
 - (ii) achieving compliance with applicable voltage requirements of the Electricity (Safety) Regulations 2010 on the low voltage parts of Aurora's network;
 - (iii) responding to voltage quality issues when they are identified; and
 - (iv) communicating to affected consumers the work on voltage quality that Aurora is doing on its low voltage network;
 - (b) engagement with consumers on Aurora's customer charter and consumer compensation arrangement;
 - (c) planning, management, and communication of planned interruptions to consumers;
 - (d) asset data collection and asset data quality practices, to—
 - (i) systematise Aurora's processes for collecting and collating network asset data;
 - (ii) improve Aurora's knowledge of network asset condition so that assets are replaced in a timely manner;
 - (iii) ensure Aurora has an appropriate platform for sharing network asset data with internal and external stakeholders;
 - (iv) evaluate whether Aurora is achieving its asset management policies and objectives; and
 - (i) ensure there is a clear line of sight between Aurora's network asset condition data and Aurora's expenditure forecasts and financial reporting;

- (v)
- (e) asset management practices and processes, including, where appropriate, to develop and improve **Aurora's**—
- (i) asset health models so that they are informed by **network** asset condition data;
- (ii) understanding of asset criticality so that it informs **Aurora's** strategies for **asset replacement and renewal**;
- (iii) asset risk framework so that **Aurora** can make risk-based decisions in relation to its supply of **electricity distribution services**, including where appropriate, based on reliability risk, environmental risk, high-impact low-probability event risk, and safety risk; and
- (iv) practices for identifying and reducing safety risks in relation to **Aurora's** supply of **electricity distribution services**, including by using frameworks to prioritise identified safety issues and to justify investments to reduce the likelihood of those issues arising;
- (f) practices for estimating the costs of **capital expenditure** and **operational expenditure** projects and programmes, including –
- (i) a description of how **Aurora** plans to update and manage its models for estimating costs; and
- (ii) a description of how **Aurora** uses the actual costs of completed **capital expenditure** and **operational expenditure** projects and programmes to improve future cost estimates;
- (g) quality assurance processes, including a description of any actions **Aurora** plans to take to ensure **capital expenditure** and **operational expenditure** projects and programmes are efficiently delivered and implemented to meet applicable industry standards;
- (2) by 31 March 2022, **publicly disclose Aurora's** 'project and programme delivery plan' that describes:
- (a) the **capital expenditure** and **operational expenditure** projects and programmes **Aurora** plans to deliver over the **CPP regulatory period**,

- including where and when **Aurora** plans to deliver those projects and programmes;
- (b) whether, and if so how and why, the projects and programmes in paragraph (a), and the **capital expenditure** and **operational expenditure** required for those projects and programmes, as applicable, differ in material respects to:
- (i) the **capital expenditure** and **operational expenditure** projects and programmes outlined in **Aurora's** application for the **Aurora CPP**; and
- (ii) the **capital expenditure** and **operational expenditure** provided for in the **Aurora CPP**;
- (c) how **Aurora** plans to communicate with **consumers** and other stakeholders when it needs to reprioritise or substitute **capital expenditure** or **operational expenditure** projects or programmes during the **CPP regulatory period**;
- (3) by 31 March 2022, **publicly disclose Aurora's** 'safety delivery plan' setting out for each **disclosure year** how the **capital expenditure** and **operational expenditure** projects and programmes described in **Aurora's** project and programme delivery plan are expected to reduce **Aurora's network safety risk** in supplying **electricity distribution services**, and includes:
- (a) an explanation of whether, and if so how and why, the expected **network safety risk** profile varies from **Aurora's** equivalent profile at the time of **Aurora's** application for the **Aurora CPP**;
- (b) a list of the key **network safety risks** and the actions **Aurora** plans to take to reduce those risks, with reference to the principle of reducing risk to 'as low as reasonably practicable'; and
- (c) a visual representation of **Aurora's** expected reduction or change in its **network safety risk**, grouped by asset class, as a result of delivering **capital expenditure** or **operational expenditure** projects or programmes identified in **Aurora's** project and programme delivery plan under subclause (2);
- (4) by 31 May 2022, and according to the requirements of clause 2.5.7, present to **consumers** in each **Aurora pricing region**, a summary of the key features of

the development plan, the project and programme delivery plan, and the safety delivery plan under subclauses (1) to (3).

Aurora's annual delivery report

2.5.5 For each disclosure year after disclosure year 2021, Aurora must,—

- (1) within 5 months after the end of that disclosure year, complete and publicly disclose an annual delivery report that, subject to clause 2.5.6, includes the content specified in Attachment C; and
- (2) within 2 months after publicly disclosing an annual delivery report under subclause (1), and according to the requirements of clause 2.5.7, present to consumers in each Aurora pricing region, a summary of the key features of that annual delivery report.

2.5.6 Aurora does not need to include qualitative content required under clauses 1.2, 1.12.2, 1.12.3(a) and (c), and 2 of Attachment C in an annual delivery report that Aurora publicly discloses under clause 2.5.5(1) if Aurora—

- (1) has previously made that content publicly available, in a readily identifiable and accessible form, prior to publicly disclosing the annual delivery report; and
- (2) includes in that annual delivery report—
 - (a) a summary of that publicly available content;
 - (b) a reference to the location where that publicly available content may be accessed; and
 - (c) an update on any changes to the content since it was previously made publicly available.

Presenting a summary of the key features of the plans and each annual delivery report

2.5.7 When presenting the summary of the key features of the development plan, the project and programme delivery plan, and the safety delivery plan under clause 2.5.4(4), and each annual delivery report under clause 2.5.5(2), Aurora must ensure it presents that summary in a public forum—

- (1) in a format that allows Aurora's consumers to readily understand and engage with Aurora and the information presented;

- (2) of which **Aurora** publishes reasonable notice on its website and via other suitable means of communication; and
- (3) that, except where it is not feasible for reasons outside **Aurora's** control, is held in a physical venue that is accessible to **Aurora's** consumers.

2.6 ASSET MANAGEMENT PLANS AND FORECAST INFORMATION

Disclosure relating to asset management plans and forecast information

2.6.1 Subject to clause 2.6.3, before the start of each **disclosure year**, every **EDB** must—

- (1) Complete an **AMP** that—
 - (a) relates to the **electricity distribution services** supplied by the **EDB**;
 - (b) meets the purposes of **AMP** disclosure set out in clause 2.6.2;
 - (c) has been prepared in accordance with:
 - (i) in **Aurora's** case, clauses 1 to 17 of Attachment A; and
 - (ii) in the case of each other **EDB**, clauses 1 to 16 of Attachment A;
 - ~~(d)~~ contains the information set out in the schedules described in clause 2.6.6; and
 - ~~(d)~~(e) contains the Report on Asset Management Maturity as described in Schedule 13;
- (2) Complete the Report on Asset Management Maturity in accordance with the requirements specified in Schedule 13; and
- (3) **Publicly disclose** the **AMP**.

2.6.2 The purposes of **AMP** disclosure referred to in subclause 2.6.1(1)(b) are that the **AMP**—

- (1) Must provide sufficient information for interested **persons** to assess whether—
 - (a) assets are being managed for the long term;
 - (b) the required level of performance is being delivered; and
 - (c) costs are efficient and performance efficiencies are being achieved;

- (2) Must be capable of being understood by interested **persons** with a reasonable understanding of the management of infrastructure assets;
- (3) Should provide a sound basis for the ongoing assessment of asset-related risks, particularly high impact asset-related risks.

2.6.3 Subject to clause 2.6.4, an **EDB** may elect to complete and **publicly disclose** an **AMP update**, as described under clause 2.6.5, before the start of a **disclosure year**, instead of an **AMP**, as described under clause 2.6.1(1), unless the start of that **disclosure year** is-

- (1) one year after the start of the **DPP regulatory period**; or
- (2) two years before the start of the next **DPP regulatory period**.

2.6.4 An **EDB** must not complete and **publicly disclose** an **AMP update** instead of an **AMP** if it has not previously **publicly disclosed** an **AMP** under clause 2.6.1.

2.6.5 For the purpose of clause 2.6.3, the **AMP update** must—

- (1) Relate to the **electricity distribution services** supplied by the **EDB**;
- (2) Identify any material changes to the **network** development plans disclosed in the last **AMP** under clause 11 of Attachment A or in the last **AMP update** disclosed under this clause;
- (3) Identify any material changes to the lifecycle asset management (maintenance and renewal) plans disclosed in the last **AMP** pursuant to clause 12 of Attachment A or in the last **AMP update** disclosed under this section;
- (4) Provide the reasons for any material changes to the previous disclosures in the Report on Forecast Capital Expenditure set out in Schedule 11a and Report on Forecast Operational Expenditure set out in Schedule 11b;
- (5) Identify any changes to the asset management practices of the **EDB** that would affect a Schedule 13 Report on Asset Management Maturity disclosure; and
- (6) Contain the information set out in the schedules described in clause 2.6.6.

2.6.6 Every **EDB** must—

- (1) Before the start of each **disclosure year**, complete and **publicly disclose** each of the following reports by inserting all information relating to the **electricity distribution services** supplied by the **EDB** for the **disclosure years** provided for in the following reports—
 - (a) the Report on Forecast Capital Expenditure in Schedule 11a;
 - (b) the Report on Forecast Operational Expenditure in Schedule 11b;
 - (c) the Report on Asset Condition in Schedule 12a;
 - (d) the Report on Forecast Capacity in Schedule 12b;
 - (e) the Report on Forecast Network Demand in Schedule 12c;
 - (f) the Report on Forecast Interruptions and Duration in Schedule 12d;
- (2) If the **EDB** has **sub-networks**, complete and **publicly disclose** the Report on Forecast Interruptions and Duration set out in Schedule 12d by inserting all information relating to the **electricity distribution services** supplied by the **EDB** in relation to each **sub-network** for the **disclosure years** provided for in the report.

2.7 EXPLANATORY NOTES TO DISCLOSED INFORMATION

2.7.1 Within 5 months after the end of each **disclosure year**, every **EDB** must complete and **publicly disclose** the Schedule of Mandatory Explanatory Notes (Schedule 14) by inserting all information relating to information disclosed in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and clauses 2.5.1(1)(f) and 2.5.2(1)(e)-

- (1) In relation to details of any insurance cover for the assets used to provide **electricity distribution services**, the explanatory notes in Schedule 14 must include-
 - (a) the **EDB's** approaches and practices in regard to the insurance of assets, including the level of insurance;
 - (b) in respect of any self-insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance;

- (2) Where an item disclosed in accordance with clause 2.3.1 is classified differently from the previous year, the explanatory notes in Schedule 14 must include the-
- (a) nature of the item reclassified;
 - (b) value of the item in the current **disclosure year** and in the previous **disclosure year**;
 - (c) classification of the item in the previous **disclosure year**;
 - (d) classification of the item in the current **disclosure year**; and
 - (e) reason why the item has been reclassified.

2.7.2 Before the start of each **disclosure year**, every **EDB** must complete and **publicly disclose** the Mandatory Explanatory Notes on Forecast Information in Schedule 14a by inserting all relevant information relating to information disclosed in accordance with clause 2.6.6.

2.7.3 Within 5 months after the end of each **disclosure year**, every **EDB** may **publicly disclose** any further comments on the information disclosed in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2, in Schedule 15.

2.8 ASSURANCE REPORTS

2.8.1 Where an **EDB** is required to **publicly disclose** any **audited disclosure information**, the **EDB** must-

- (1) procure an assurance report by an **independent auditor** in respect of that **audited disclosure information**, that is prepared in accordance with **SAE 3100** and **ISAE (NZ) 3000**, signed by the **independent auditor** (either in his or her own name or that of his or her firm), that-
- (a) is addressed to the **directors** of the **EDB** and to the **Commission** as the intended users of the assurance report;
 - (b) states-
 - (i) that it has been prepared in accordance with **SAE 3100** and **ISAE (NZ) 3000**;
 - (ii) the work done by the **independent auditor**;

- (iii) the scope and limitations of the assurance engagement;
 - (iv) the existence of any relationship (other than that of auditor) which the **independent auditor** has with, or any interests which the **independent auditor** has in, the **EDB** or any of its subsidiaries;
 - (v) whether the **independent auditor** has obtained sufficient recorded evidence and explanations that he or she required and, if not, the information and explanations not obtained;
 - (vi) whether, in the **independent auditor's** opinion, as far as appears from an examination, the information used in the preparation of the **audited disclosure information** has been properly extracted from the **EDB's** accounting and other **records**, sourced from its financial and non-financial systems; and
 - (vii) whether, in the **independent auditor's** opinion, as far as appears from an examination of them, proper **records** to enable the complete and accurate compilation of the **audited disclosure information** required by the Electricity Distribution Information Disclosure Determination 2012 have been kept by the **EDB** and, if not, the **records** not so kept;
- (c) states whether (and, if not, the respects in which it has not), in the **independent auditor's** opinion, the **EDB** has complied, in all material respects, with the Electricity Distribution Information Disclosure Determination 2012 in preparing the **audited disclosure information**; and
- (d) states whether, in the **independent auditor's** opinion, the **EDB's** basis for valuation of **related party transactions** in the **disclosure year** has complied, in all material respects, with clause 2.3.6 of this determination and clauses 2.2.11(1)(g) and 2.2.11(5) of the **IM determination**;
- (2) without limiting the application of **SAE 3100** and **ISAE (NZ) 3000** as set out in subclause (1), the assurance report must state any key audit matters, being those matters that-
- (a) required significant attention by the **independent auditor** in carrying out its assurance engagement;

- (b) are selected from matters communicated with those charged with governance of the **EDB**; and
- (c) the **independent auditor** has identified, taking into account:
 - (i) areas of higher assessed risk of material misstatement of **audited disclosure information**;
 - (ii) significant auditor judgements relating to areas in the **audited disclosure information** that involved significant judgement of the management of the **EDB**; and
 - (iii) the effect on the assurance engagement of any significant events or transactions by the **EDB** that occurred during the **disclosure year**; and

Guidance note: (refer to clause 1.4.1(98)-(109))

This is a similar requirement to that which applies for the audit or financial statements under International Standard on Auditing (New Zealand) 701, Communicating Key Audit Matters in the Independent Auditor's Report, issued by the New Zealand Auditing and Assurance Standards Board of the External Reporting Board in October 2015, under s 12(b) of the Financial Reporting Act 2013.

- (3) **publicly disclose** the **independent auditor's** assurance report prepared in accordance with subclause (1) at the same time as the **EDB publicly discloses** the **audited disclosure information**.

2.8.2 Subject to clauses 2.3.9, 2.8.3 and 2.8.5, an **EDB** must procure and **publicly disclose** at the same time as it **publicly discloses** the **audited disclosure information**, an independent report prepared in accordance with clause 2.8.4, where-

- (1) the proportion of the **EDB's** total **capital expenditure** accounted for by **related party transactions** involving a procurement from a **related party** exceeds 65% in the **disclosure year**;
- (2) the proportion of the **EDB's** total **operational expenditure** accounted for by **related party transactions** involving a procurement from a **related party** exceeds 65% in the **disclosure year**; or
- (3) the **independent auditor** is not able to conclude that the valuation or disclosures of **related party transactions** in the **disclosure year** comply, in all

material respects, with clause 2.3.6 of this determination and clauses 2.2.11(1)(g) and 2.2.11(5) of the **IM determination**.

- 2.8.3 Where clause 2.8.2 applies for the **disclosure year** and time constraints do not permit the preparation of an independent report for that **disclosure year** before the **independent auditor** issues their opinion for that **disclosure year**, the **EDB** must-
- (1) within 5 months after the end of that **disclosure year** **publicly disclose** a statement indicating that it will procure and **publicly disclose** an independent report in accordance with clause 2.8.4 for the subsequent **disclosure year**; and
 - (2) procure and **publicly disclose** an independent report from an **independent appraiser**, prepared in accordance with clause 2.8.4 at the same time as the **EDB publicly discloses** the **audited disclosure information** for the subsequent **disclosure year**.
- 2.8.4 The independent report prepared by the **independent appraiser**, as specified in clauses 2.8.2 and 2.8.3(2), must-
- (1) be addressed to the **directors** of the **EDB** and to the **Commission** as the intended users of the report;
 - (2) be a separate report from the **independent auditor's** assurance report prepared in accordance with clause 2.8.1(1);
 - (3) based on the information obtained, sampling of **related party transactions**, and analysis undertaken, state whether or not in the opinion of the **independent appraiser**, the **EDB's related party transactions** would comply, in all material respects, with clause 2.3.6 of this determination and clauses 2.2.11(1)(g) and 2.2.11(5) of the **IM determination**, and set out the grounds for that opinion;
 - (4) where the **independent appraiser** provides an opinion in the report that the **EDB's related party transactions** would not comply with clause 2.3.6 of this determination or clauses 2.2.11(1)(g) and 2.2.11(5) of the **IM determination**, state the alternative terms the **independent appraiser** considers could enable the **related party transactions** to comply;
 - (5) set out the qualifications of the **independent appraiser** to provide the opinion in the report;

- (6) set out the scope and any limitations of the engagement of the **independent appraiser** by the **EDB**;
- (7) state all key assumptions made by the **independent appraiser** on which the analysis in the report relies;
- (8) describe the basis used for sampling of **related party transactions** to inform the opinion in the report;
- (9) describe the steps and analysis undertaken;
- (10) summarise the steps the **EDB** has taken to test whether **related party transactions** comply with clause 2.3.6 of this determination and clauses 2.2.11(1)(g) and 2.2.11(5) of the **IM determination**;
- (11) state whether or not, in the opinion of the **independent appraiser**, the steps taken by the **EDB** specified in subclause (9), are considered to be, in all material respects, reasonable in the circumstances; and
- (12) state whether the **independent appraiser** has obtained the recorded information and explanations that they required and, if not, the information and explanations not able to be obtained.

2.8.5 An **EDB** may elect not to obtain an independent report for a **disclosure year**, as required under clause 2.8.2, where-

- (1) for that **disclosure year**, the proportion of either the **EDB's** total **capital expenditure** or total **operational expenditure** accounted for by **related party transactions** involving a procurement from a **related party** has not increased by more than 5% from the **disclosure year** for which the most recent independent report has been disclosed in accordance with clause 2.8.2 or 2.8.3(2); and
- (2) the **EDB** has disclosed an independent report for at least one of the two previous **disclosure years** in accordance with clause 2.8.2 or 2.8.3(2).

Mid-period expert report on Aurora's progress

2.8.5A By 1 March 2024, Aurora must publicly disclose one or more reports, procured and prepared in accordance with clause 2.8.5B, that provide an opinion from one or more independent experts on Aurora's progress in, and any recommendations for Aurora to improve on, each of the following:

- (1) delivering on time the **capital expenditure and operational expenditure** projects and programmes described in **Aurora's** project and programme delivery plan under clause 2.5.4(2);
- (2) developing **low voltage network** practices referred to in clause 2.5.4(1)(a);
- (3) developing **Aurora's** consultation practices with **consumers**, including those regarding changes to **Aurora's customer charter, consumer compensation arrangement**, and the additional pricing methodology disclosures under clause 2.4.5A;
- (4) developing asset management practices and processes referred to in clause 2.5.4(1)(e)(i) to (iii); and
- (5) developing practices for identifying and reducing safety risks referred to in clause 2.5.4(1)(e)(iv).

2.8.5B For the purposes of clause 2.8.5A, **Aurora** must ensure the report or reports are—

- (1) procured according to the following requirements:
 - (a) **Aurora** must prepare and provide draft **terms of reference** to the **Commission** for feedback by no later than 31 October 2022;
 - (b) **Aurora** must finalise the **terms of reference** by no later than 31 March 2023 after giving effect to any feedback the **Commission** provides **Aurora** on the draft **terms of reference**; and
 - ~~(a)~~(c) before appointing an **independent expert** to provide an opinion on one or more of the areas under clause 2.8.5A, **Aurora** must obtain the **Commission's** approval to the **independent expert** that **Aurora** intends to appoint;
- (2) prepared—
 - (a) by one or more **independent experts**; and
 - (b) in a manner that gives effect to, and is consistent with, the **terms of reference** finalised under subclause (1)(b);
- (3) based only on—
 - (a) the information **Aurora** has **publicly disclosed**—

- (i) in its AMPs for disclosure year 2022 and disclosure year 2023;
- (ii) in its annual delivery reports for disclosure year 2022 and disclosure year 2023; and
- (iii) under clause 2.5.3 and clause 2.5.4;
- (b) other relevant publicly available information;
- (4) provided in draft, by no later than 31 October 2023, to the Commission for feedback; and
- (5) finalised only after Aurora has considered any feedback provided by the Commission.

2.8.5C For the purposes of clause 2.8.5B, the Commission must provide Aurora with any written feedback the Commission has on—

- (1) the draft terms of reference, by no later than 31 January 2023; and
- (2) the draft report or reports, by 15 December 2023.

Assurance reports

2.8.6 Subject to clause 2.8.7, where an **EDB publicly discloses** information under clause 2.12.1 or 2.12.2 and the **EDB** was required to procure an assurance report under clause 2.8.1 for the **original disclosure**, the **EDB** must procure an assurance report to the information disclosed under clause 2.12.1 or 2.12.2 to the standard of the assurance report procured for the **original disclosure**.

2.8.7 In applying clause 2.8.6, the assurance required for **indirectly affected data and statements** disclosures is whether the disclosed **error** has been corrected and subsequently correctly reflected in the revised **indirectly affected data and statements**.

2.9 CERTIFICATES

2.9.1 Where an **EDB** is required to **publicly disclose** any information under clauses 2.4.1, 2.6.1, 2.6.3, 2.6.6 and 2.7.2, the **EDB** must at that time **publicly disclose** a certificate in the form set out in Schedule 17 in respect of that information, duly signed by 2 **directors** of the **EDB**.

2.9.2 Where an **EDB** is required to **publicly disclose**, or disclose to the **Commission**, any information under any of clauses 2.3.1, 2.3.2, 2.3.6, 2.4.21, 2.4.22, 2.5.1, 2.5.2, and 2.7.1, the **EDB** must at that time **publicly disclose** a certificate in the form set

out in Schedule 18 in respect of that information, duly signed by 2 **directors** of the **EDB**.

2.9.3 Subject to clause 2.9.4, where an **EDB publicly discloses** information under clause 2.12.1 or 2.12.2, the **EDB must publicly disclose** a certificate under clause 2.12.1 or 2.12.2 to the standard of the certificate disclosed with the **original disclosure**.

2.9.4 In applying clause 2.9.3, the certification required for **indirectly affected data and statements** disclosures is whether the disclosed **error** has been corrected and subsequently correctly reflected in the revised **indirectly affected data and statements**.

Additional certificate disclosure requirement for Aurora

2.9.5 Aurora must publicly disclose a certificate in the form set out in Schedule 18, duly signed by 2 directors of Aurora, with, and in respect of, any information Aurora—

(1) publicly discloses under clauses 2.5.3, 2.5.4(1) to (3), and 2.5.5(1); and

(2) includes in an annual delivery report under clause 2.5.6(2), which Aurora publicly discloses under clause 2.5.5(1).

2.10 RETENTION AND CONTINUING DISCLOSURES

2.10.1 An **EDB** that is required by this determination to **publicly disclose** any information must retain, and continuously **publicly disclose**, that information for at least 7 years from the date that information is first required to be **publicly disclosed**.

2.11 EXEMPTIONS

2.11.1 The **Commission** may at any time, by written notice to an **EDB**-

- (1) Exempt the **EDB** from any or all of the requirements of this determination, for a period and on such terms and conditions as the **Commission** specifies in the notice; and
- (2) Amend or revoke any such exemption.

2.12 DISCLOSURE OF ERRORS IN PREVIOUSLY DISCLOSED INFORMATION

2.12.1 Within 7 months of identifying a material **error**, an **EDB** must-

- (1) **publicly disclose**-

- (a) a description of the **error** including the quantum of the **error** and a summary of the disclosures, data and statements affected by the **error**;
 - (b) the reason for the **error**;
 - (c) the data and statements from the **original disclosure** affected by the **error**;
 - (d) in a manner which is consistent with the **principal determination** including any amendments in effect at the time of the **original disclosure**, materially correct revised data or statements affected by the **error**;
 - (e) a certificate in accordance with clause 2.9.3; and
 - (f) where applicable, an assurance report in accordance with clause 2.8.6.
- (2) disclose the information outlined in subclause (1) when **publicly disclosing** the **original disclosure** in accordance with clause 2.10.1.

2.12.2 If an **EDB** identifies a non-material **error**, an **EDB** may, within 7 months of identifying the non-material **error**, **publicly disclose** it in accordance with clause 2.12.1.

2.12.3 Information disclosed in accordance with this determination that refers to or relies on information contained in a previous disclosure must be consistent with the previous disclosure, unless an **error** disclosure related to that information has been made in accordance with clause 2.12.1 or 2.12.2.

2.12.4 Information disclosed after an **error** disclosure is made in accordance with clause 2.12.1 or 2.12.2 must be consistent with the **error** disclosure made in accordance with clause 2.12.1 or 2.12.2.

Attachment A Asset Management Plans

*This attachment sets out the mandatory disclosure requirements with respect to **AMPs**. The text in italics provides a commentary on those requirements. The purpose of the commentary is to provide guidance on the expected content of disclosed **AMPs**. The commentary has been prepared on the basis that **EDBs** will implement best practice asset management processes.*

AMP design

1. The core elements of asset management—
 - 1.1 A focus on measuring **network** performance, and managing the assets to achieve service targets;
 - 1.2 Monitoring and continuously improving asset management practices;
 - 1.3 Close alignment with corporate vision and strategy;
 - 1.4 That asset management is driven by clearly defined strategies, business objectives and service level targets;
 - 1.5 That responsibilities and accountabilities for asset management are clearly assigned;
 - 1.6 An emphasis on knowledge of what assets are owned and why, the location of the assets and the condition of the assets;
 - 1.7 An emphasis on optimising asset utilisation and performance;
 - 1.8 That a total life cycle approach should be taken to asset management;
 - 1.9 That the use of ‘non-network’ solutions and demand management techniques as alternatives to asset acquisition is considered.
2. The disclosure requirements are designed to produce **AMPs** that—
 - 2.1 Are based on, but are not limited to, the core elements of asset management identified in clause 1;
 - 2.2 Are clearly documented and made available to all stakeholders;
 - 2.3 Contain sufficient information to allow interested **persons** to make an informed judgement about the extent to which the **EDB**’s asset management processes meet best practice criteria and outcomes are consistent with outcomes produced in competitive markets;
 - 2.4 Specifically support the achievement of disclosed service level targets;

- 2.5 Emphasise knowledge of the performance and risks of assets and identify opportunities to improve performance and provide a sound basis for ongoing risk assessment;
- 2.6 Consider the mechanics of delivery including resourcing;
- 2.7 Consider the organisational structure and capability necessary to deliver the **AMP**;
- 2.8 Consider the organisational and contractor competencies and any training requirements;
- 2.9 Consider the systems, integration and information management necessary to deliver the plans;
- 2.10 To the extent practical, use unambiguous and consistent definitions of asset management processes and terminology consistent with the terms used in this attachment to enhance comparability of asset management practices over time and between **EDBs**; and
- 2.11 Promote continual improvements to asset management practices.

*Disclosing an **AMP** does not constrain an **EDB** from managing its assets in a way that differs from the **AMP** if its circumstances change after preparing the plan or if the **EDB** adopts improved asset management practices.*

Contents of the **AMP**

3. The **AMP** must include the following-
 - 3.1 A summary that provides a brief overview of the contents and highlights information that the **EDB** considers significant;
 - 3.2 Details of the background and objectives of the **EDB's** asset management and planning processes;
 - 3.3 A purpose statement which-
 - 3.3.1 makes clear the purpose and status of the **AMP** in the **EDB's** asset management practices. The purpose statement must also include a statement of the objectives of the asset management and planning processes;
 - 3.3.2 states the corporate mission or vision as it relates to asset management;
 - 3.3.3 identifies the documented plans produced as outputs of the annual business planning process adopted by the **EDB**;

3.3.4 states how the different documented plans relate to one another, with particular reference to any plans specifically dealing with asset management; and

3.3.5 includes a description of the interaction between the objectives of the **AMP** and other corporate goals, business planning processes, and plans;

*The purpose statement should be consistent with the **EDB's** vision and mission statements, and show a clear recognition of stakeholder interest.*

3.4 Details of the **AMP planning period**, which must cover at least a projected period of 10 years commencing with the **disclosure year** following the date on which the **AMP** is disclosed;

*Good asset management practice recognises the greater accuracy of short-to-medium term planning, and will allow for this in the **AMP**. The asset management planning information for the second 5 years of the **AMP planning period** need not be presented in the same detail as the first 5 years.*

3.5 The date that it was approved by the **directors**;

3.6 A description of stakeholder interests (owners, **consumers** etc) which identifies important stakeholders and indicates-

3.6.1 how the interests of stakeholders are identified

3.6.2 what these interests are;

3.6.3 how these interests are accommodated in asset management practices; and

3.6.4 how conflicting interests are managed;

3.7 A description of the accountabilities and responsibilities for asset management on at least 3 levels, including-

3.7.1 governance—a description of the extent of **director** approval required for key asset management decisions and the extent to which asset management outcomes are regularly reported to **directors**;

3.7.2 executive—an indication of how the in-house asset management and planning organisation is structured; and

3.7.3 field operations—an overview of how field operations are managed, including a description of the extent to which field work is undertaken in-house and the areas where outsourced contractors are used;

- 3.8 All significant assumptions-
- 3.8.1 quantified where possible;
 - 3.8.2 clearly identified in a manner that makes their significance understandable to interested **persons**, including-
 - 3.8.3 a description of changes proposed where the information is not based on the **EDB's** existing business;
 - 3.8.4 the sources of uncertainty and the potential effect of the uncertainty on the prospective information; and
 - 3.8.5 the price inflator assumptions used to prepare the financial information disclosed in **nominal New Zealand dollars** in the Report on Forecast Capital Expenditure set out in Schedule 11a and the Report on Forecast Operational Expenditure set out in Schedule 11b;

3.9 A description of the factors that may lead to a material difference between the prospective information disclosed and the corresponding actual information recorded in future disclosures;

3.10 An overview of asset management strategy and delivery;

*To support the Report on Asset Management Maturity disclosure and assist interested **persons** to assess the maturity of asset management strategy and delivery, the **AMP** should identify-*

- *how the asset management strategy is consistent with the **EDB's** other strategy and policies;*
- *how the asset strategy takes into account the life cycle of the assets;*
- *the link between the asset management strategy and the **AMP**; and*
- *processes that ensure costs, risks and system performance will be effectively controlled when the **AMP** is implemented.*

3.11 An overview of systems and information management data;

*To support the Report on Asset Management Maturity disclosure and assist interested **persons** to assess the maturity of systems and information management, the **AMP** should describe-*

- *the processes used to identify asset management data requirements that cover the whole of life cycle of the assets;*

- *the systems used to manage asset data and where the data is used, including an overview of the systems to record asset conditions and operation capacity and to monitor the performance of assets;*
- *the systems and controls to ensure the quality and accuracy of asset management information; and*
- *the extent to which these systems, processes and controls are integrated.*

- 3.12 A statement covering any limitations in the availability or completeness of asset management data and disclose any initiatives intended to improve the quality of this data;

*Discussion of the limitations of asset management data is intended to enhance the transparency of the **AMP** and identify gaps in the asset management system.*

- 3.13 A description of the processes used within the **EDB** for-

3.13.1 managing routine asset inspections and **network** maintenance;

3.13.2 planning and implementing **network** development projects; and

3.13.3 measuring **network** performance;

- 3.14 An overview of asset management documentation, controls and review processes.

*To support the Report on Asset Management Maturity disclosure and assist interested **persons** to assess the maturity of asset management documentation, controls and review processes, the **AMP** should-*

- (i) identify the documentation that describes the key components of the asset management system and the links between the key components;*
- (ii) describe the processes developed around documentation, control and review of key components of the asset management system;*
- (iii) where the **EDB** outsources components of the asset management system, the processes and controls that the **EDB** uses to ensure efficient and cost effective delivery of its asset management strategy;*

- (iv) *where the **EDB** outsources components of the asset management system, the systems it uses to retain core asset knowledge in-house; and*
- (v) *audit or review procedures undertaken in respect of the asset management system.*

3.15 An overview of communication and participation processes;

*To support the Report on Asset Management Maturity disclosure and assist interested **persons** to assess the maturity of asset management documentation, controls and review processes, the **AMP** should-*

- (i) *communicate asset management strategies, objectives, policies and plans to stakeholders involved in the delivery of the asset management requirements, including contractors and consultants; and*
- (ii) *demonstrate staff engagement in the efficient and cost effective delivery of the asset management requirements.*

3.16 The **AMP** must present all financial values in **constant price** New Zealand dollars except where specified otherwise; and

3.17 The **AMP** must be structured and presented in a way that the **EDB** considers will support the purposes of **AMP** disclosure set out in clause 2.6.2 of the determination.

Assets covered

4. The **AMP** must provide details of the assets covered, including-

4.1 a high-level description of the service areas covered by the **EDB** and the degree to which these are interlinked, including-

4.1.1 the region(s) covered;

4.1.2 identification of large **consumers** that have a significant impact on **network** operations or asset management priorities;

4.1.3 description of the load characteristics for different parts of the **network**;

4.1.4 peak demand and total energy delivered in the previous year, broken down by **sub-network**, if any.

4.2 a description of the **network** configuration, including-

- 4.2.1 identifying bulk electricity supply points and any **distributed generation** with a capacity greater than 1 MW. State the existing firm supply capacity and current peak load of each bulk electricity supply point;
- 4.2.2 a description of the **subtransmission** system fed from the bulk electricity supply points, including the capacity of **zone substations** and the voltage(s) of the **subtransmission network(s)**. The **AMP** must identify the supply security provided at individual **zone substations**, by describing the extent to which each has n-x **subtransmission** security or by providing alternative security class ratings;
- 4.2.3 a description of the distribution system, including the extent to which it is underground;
- 4.2.4 a brief description of the **network's** distribution substation arrangements;
- 4.2.5 a description of the **low voltage network** including the extent to which it is underground; and
- 4.2.6 an overview of **secondary assets** such as protection relays, ripple injection systems, SCADA and telecommunications systems.

*To help clarify the **network** descriptions, **network maps** and a single line diagram of the **subtransmission network** should be made available to interested **persons**. These may be provided in the **AMP** or, alternatively, made available upon request with a statement to this effect made in the **AMP**.*

- 4.3 If **sub-networks** exist, the **network** configuration information referred to in clause 4.2 must be disclosed for each **sub-network**.

Network assets by category

- 4.4 The **AMP** must describe the **network** assets by providing the following information for each asset category-
 - 4.4.1 voltage levels;
 - 4.4.2 description and quantity of assets;
 - 4.4.3 age profiles; and
 - 4.4.4 a discussion of the condition of the assets, further broken down into more detailed categories as considered appropriate. Systemic issues

leading to the premature replacement of assets or parts of assets should be discussed.

- 4.5 The asset categories discussed in clause 4.4 should include at least the following-
- 4.5.1 the categories listed in the Report on Forecast Capital Expenditure in Schedule 11a(iii);
 - 4.5.2 assets owned by the **EDB** but installed at bulk electricity supply points owned by others;
 - 4.5.3 **EDB** owned mobile substations and generators whose function is to increase supply reliability or reduce peak demand; and
 - 4.5.4 other generation plant owned by the **EDB**.

Service Levels

5. The **AMP** must clearly identify or define a set of performance indicators for which annual performance targets have been defined. The annual performance targets must be consistent with business strategies and asset management objectives and be provided for each year of the **AMP planning period**. The targets should reflect what is practically achievable given the current **network** configuration, condition and planned expenditure levels. The targets should be disclosed for each year of the **AMP planning period**.
6. Performance indicators for which targets have been defined in clause 5 must include **SAIDI values** and **SAIFI values** for the next 5 **disclosure years**.
7. Performance indicators for which targets have been defined in clause 5 should also include-
- 7.1 **Consumer** oriented indicators that preferably differentiate between different consumer types; and
 - 7.2 Indicators of asset performance, asset efficiency and effectiveness, and service efficiency, such as technical and financial performance indicators related to the efficiency of asset utilisation and operation.
8. The **AMP** must describe the basis on which the target level for each performance indicator was determined. Justification for target levels of service includes **consumer** expectations or demands, legislative, regulatory, and other stakeholders' requirements or considerations. The **AMP** should demonstrate how stakeholder needs were ascertained and translated into service level targets.

9. Targets should be compared to historic values where available to provide context and scale to the reader.

10. Where forecast expenditure is expected to materially affect performance against a target defined in clause 5, the target should be consistent with the expected change in the level of performance.

Performance against target must be monitored for disclosure in the Evaluation of Performance section of each subsequent AMP.

Network Development Planning

11. **AMPs** must provide a detailed description of **network** development plans, including—

11.1 A description of the planning criteria and assumptions for **network** development;

11.2 Planning criteria for **network** developments should be described logically and succinctly. Where probabilistic or scenario-based planning techniques are used, this should be indicated and the methodology briefly described;

11.3 A description of strategies or processes (if any) used by the **EDB** that promote cost efficiency including through the use of standardised assets and designs;

11.4 The use of standardised designs may lead to improved cost efficiencies. This section should discuss-

11.4.1 the categories of assets and designs that are standardised; and

11.4.2 the approach used to identify standard designs;

11.5 A description of strategies or processes (if any) used by the **EDB** that promote the energy efficient operation of the **network**;

*The energy efficient operation of the **network** could be promoted, for example, through **network** design strategies, demand side management strategies and asset purchasing strategies.*

11.6 A description of the criteria used to determine the capacity of equipment for different types of assets or different parts of the **network**;

*The criteria described should relate to the **EDB's** philosophy in managing planning risks.*

11.7 A description of the process and criteria used to prioritise **network** development projects and how these processes and criteria align with the overall corporate goals and vision;

- 11.8 Details of demand forecasts, the basis on which they are derived, and the specific **network** locations where constraints are expected due to forecast increases in demand;
 - 11.8.1 explain the load forecasting methodology and indicate all the factors used in preparing the load estimates;
 - 11.8.2 provide separate forecasts to at least the **zone substation** level covering at least a minimum five year forecast period. Discuss how uncertain but substantial individual projects/developments that affect load are taken into account in the forecasts, making clear the extent to which these uncertain increases in demand are reflected in the forecasts;
 - 11.8.3 identify any **network** or equipment constraints that may arise due to the anticipated growth in demand during the **AMP planning period**; and
 - 11.8.4 discuss the impact on the load forecasts of any anticipated levels of **distributed generation** in a **network**, and the projected impact of any demand management initiatives;
- 11.9 Analysis of the significant **network** level development options identified and details of the decisions made to satisfy and meet target levels of service, including-
 - 11.9.1 the reasons for choosing a selected option for projects where decisions have been made;
 - 11.9.2 the alternative options considered for projects that are planned to start in the next five years and the potential for non-network solutions described; and
 - 11.9.3 consideration of planned innovations that improve efficiencies within the **network**, such as improved utilisation, extended asset lives, and deferred investment;
- 11.10 A description and identification of the **network** development programme including **distributed generation** and non-network solutions and actions to be taken, including associated expenditure projections. The **network** development plan must include-
 - 11.10.1 a detailed description of the material projects and a summary description of the non-material projects currently underway or planned to start within the next 12 months;

11.10.2 a summary description of the programmes and projects planned for the following four years (where known); and

11.10.3 an overview of the material projects being considered for the remainder of the **AMP planning period**;

*For projects included in the **AMP** where decisions have been made, the reasons for choosing the selected option should be stated which should include how target levels of service will be impacted. For other projects planned to start in the next five years, alternative options should be discussed, including the potential for non-network approaches to be more cost effective than **network** augmentations.*

11.11 A description of the **EDB's** policies on **distributed generation**, including the policies for connecting **distributed generation**. The impact of such generation on **network** development plans must also be stated; and

11.12 A description of the **EDB's** policies on non-network solutions, including-

11.12.1 economically feasible and practical alternatives to conventional **network** augmentation. These are typically approaches that would reduce **network** demand and/or improve asset utilisation; and

11.12.2 the potential for non-network solutions to address **network** problems or constraints.

Lifecycle Asset Management Planning (Maintenance and Renewal)

12. The **AMP** must provide a detailed description of the lifecycle asset management processes, including—

12.1 The key drivers for maintenance planning and assumptions;

12.2 Identification of **routine and corrective maintenance and inspection** policies and programmes and actions to be taken for each asset category, including associated expenditure projections. This must include-

12.2.1 the approach to inspecting and maintaining each category of assets, including a description of the types of inspections, tests and condition monitoring carried out and the intervals at which this is done;

12.2.2 any systemic problems identified with any particular asset types and the proposed actions to address these problems; and

12.2.3 budgets for maintenance activities broken down by asset category for the **AMP planning period**;

- 12.3 Identification of **asset replacement and renewal** policies and programmes and actions to be taken for each asset category, including associated expenditure projections. This must include-
- 12.3.1 the processes used to decide when and whether an asset is replaced or refurbished, including a description of the factors on which decisions are based, and consideration of future demands on the **network** and the optimum use of existing **network** assets;
 - 12.3.2 a description of innovations that have deferred asset replacements;
 - 12.3.3 a description of the projects currently underway or planned for the next 12 months;
 - 12.3.4 a summary of the projects planned for the following four years (where known); and
 - 12.3.5 an overview of other work being considered for the remainder of the **AMP planning period**; and
- 12.4 The asset categories discussed in clauses 12.2 and 12.3 should include at least the categories in clause 4.5.

Non-Network Development, Maintenance and Renewal

13. **AMPs** must provide a summary description of material non-network development, maintenance and renewal plans, including—
- 13.1 a description of **non-network assets**;
 - 13.2 development, maintenance and renewal policies that cover them;
 - 13.3 a description of material **capital expenditure** projects (where known) planned for the next five years; and
 - 13.4 a description of material maintenance and renewal projects (where known) planned for the next five years.

Risk Management

14. **AMPs** must provide details of risk policies, assessment, and mitigation, including—
- 14.1 Methods, details and conclusions of risk analysis;
 - 14.2 Strategies used to identify areas of the **network** that are vulnerable to high impact low probability events and a description of the resilience of the **network** and asset management systems to such events;

- 14.3 A description of the policies to mitigate or manage the risks of events identified in clause 14.2; and
- 14.4 Details of emergency response and contingency plans.

*Asset risk management forms a component of an **EDB's** overall risk management plan or policy, focusing on the risks to assets and maintaining service levels. **AMPs** should demonstrate how the **EDB** identifies and assesses asset related risks and describe the main risks within the **network**. The focus should be on credible low-probability, high-impact risks. Risk evaluation may highlight the need for specific development projects or maintenance programmes. Where this is the case, the resulting projects or actions should be discussed, linking back to the development plan or maintenance programme.*

Evaluation of performance

15. **AMPs** must provide details of performance measurement, evaluation, and improvement, including—
- 15.1 A review of progress against plan, both physical and financial;
- *referring to the most recent disclosures made under Section 2.6 of this determination, discussing any significant differences and highlighting reasons for substantial variances;*
 - *commenting on the progress of development projects against that planned in the previous **AMP** and provide reasons for substantial variances along with any significant construction or other problems experienced; and*
 - *commenting on progress against maintenance initiatives and programmes and discuss the effectiveness of these programmes noted.*
- 15.2 An evaluation and comparison of actual service level performance against targeted performance;
- *in particular, comparing the actual and target service level performance for all the targets discussed under the Service Levels section of the **AMP** in the previous **AMP** and explain any significant variances.*
- 15.3 An evaluation and comparison of the results of the asset management maturity assessment disclosed in the Report on Asset Management Maturity set out in Schedule 13 against relevant objectives of the **EDB's** asset management and planning processes.

- 15.4 An analysis of gaps identified in clauses 15.2 and 15.3. Where significant gaps exist (not caused by one-off factors), the **AMP** must describe any planned initiatives to address the situation.

Capability to deliver

16. **AMPs** must describe the processes used by the **EDB** to ensure that-
- 16.1 The **AMP** is realistic and the objectives set out in the plan can be achieved; and
- 16.2 The organisation structure and the processes for authorisation and business capabilities will support the implementation of the **AMP** plans.

Additional AMP disclosure requirements for Aurora

17. Aurora must summarise in its AMP Aurora's development plan under clause 2.5.4(1) to develop and improve its:

17.1 Asset data collection and asset data quality practices as specified in clause 2.5.4(1)(d);

17.2 Asset management practices and processes as specified in clause 2.5.4(1)(e)(i) to (iii);

17.3 Practices for identifying and reducing safety risks as specified in clause 2.5.4(1)(e)(iv);

17.4 Practices for estimating the costs of **capital expenditure** and **operational expenditure** projects and programmes as specified in clause 2.5.4(1)(f); and

17.5 Quality assurance processes as specified in clause 2.5.4(1)(g).

Attachment B Calculation of Normalised SAIDI and SAIFI

1. This attachment sets out the calculation of normalised **SAIDI** and normalised **SAIFI** for use in calculating these statistics for disclosures under Schedule 10.
2. In order for an **EDB** to calculate its normalised **SAIDI** and normalised **SAIFI**, the **EDB** must undertake the steps set out below-

Develop a non-zero dataset

3. Construct a non-zero dataset containing only those days from the **reference dataset** where the daily **SAIDI value** is greater than zero (i.e. exclude zero **SAIDI** days).

Calculate boundary values

4. Using the non-zero dataset, calculate the **SAIDI** boundary value (B_{SAIDI}) as follows-

5.
$$B_{SAIDI} = e^{(\alpha_{SAIDI} + 2.5\beta_{SAIDI})}$$

6. where-

7. α_{SAIDI} is the average of the natural logarithm (ln) of each daily **SAIDI value** in the non-zero dataset;

8. β_{SAIDI} is the standard deviation of the natural logarithm (ln) of each daily **SAIDI value** in the non-zero dataset.

9. Using the non-zero dataset, calculate the **SAIFI** boundary value (B_{SAIFI}) as follows-

10.
$$B_{SAIFI} = e^{(\alpha_{SAIFI} + 2.5\beta_{SAIFI})}$$

11. where-

12. α_{SAIFI} is the average of the natural logarithm (ln) of each daily **SAIFI value** in the non-zero dataset;

13. β_{SAIFI} is the standard deviation of the natural logarithm (ln) of each daily **SAIFI value** in the non-zero dataset.

Normalise the Assessment Dataset

14. For any day in the **assessment dataset** for the **disclosure year** where the daily **SAIDI value** is greater than B_{SAIDI} -

15. replace the daily **SAIDI value** with B_{SAIDI} ; and
16. replace the daily **SAIFI value** with B_{SAIFI} if the daily **SAIFI value** for that day exceeds B_{SAIFI} .

Calculate Assessed Values

17. The normalised SAIDI value is the sum of daily **SAIDI values** in the **normalised assessment dataset** for the **disclosure year**; and
18. The normalised SAIFI value is the sum of daily **SAIFI values** in the **normalised assessment dataset** for the **disclosure year**.

Attachment C Annual Delivery Report

*This attachment sets out the content required in an **annual delivery report** which is prepared and **publicly disclosed**, and for which a summary of the key features must be presented, under clauses 2.5.5 and 2.5.7.*

1. Aurora must include the following in an annual delivery report:

Overall progress update from board of directors

1.1 an overview from Aurora's board of directors setting out—

1.1.1 Aurora's overall progress in the following areas:

(a) for disclosure year 2022, Aurora's progress in completing capital expenditure and operational expenditure projects and programmes;

(b) for each disclosure year except disclosure year 2022, Aurora's progress in completing the capital expenditure and operational expenditure projects and programmes identified in Aurora's project and programme delivery plan under clause 2.5.4(2);

1.1.2 any actions Aurora is taking to ensure its capital expenditure and operational expenditure projects and programmes are completed as effectively and efficiently as possible;

1.1.3 for each disclosure year except disclosure year 2022, in respect of any key capital expenditure and operational expenditure project or programme that Aurora is behind schedule in completing according to Aurora's project and programme delivery plan under clause 2.5.4(2), the reason(s) why the project or programme is behind schedule, and any actions Aurora is taking to bring the project or programme back on track; and

1.1.4 a summary of the network safety risks Aurora has successfully reduced;

Safety delivery plan reporting

1.2 for each disclosure year except disclosure year 2022, a report on Aurora's progress against the safety delivery plan under clause 2.5.4(3) containing the following information:

1.2.1 a visual representation of Aurora's actual reduction or change in network safety risk, grouped by asset class, as a result of delivering capital expenditure or operational expenditure projects or

programmes identified in **Aurora's** project and programme delivery plan under clause 2.5.4(2); and

1.2.2 in relation to the key **network** safety risks listed in the safety delivery plan,—

(a) a summary of actions **Aurora** has taken to reduce those risks, with reference to the principle of reducing risk to 'as low as reasonably practicable'; and

(b) for any identified risk that **Aurora** has not reduced to the extent planned, a description of how, and within what timeframe, **Aurora** plans to reduce the risk;

Progress in developing key processes and practices – disclosure year 2022

1.3 for disclosure year 2022, a summary, a **self-assessment rating**, and reason(s) for the **self-assessment rating**, of **Aurora's** progress in developing in each of the following areas:

1.3.1 ensuring the information **Aurora publicly discloses** under clause 2.4.5A(1) enables interested **persons** to understand how **Aurora** sets **prices** for each **Aurora pricing region**;

1.3.2 **low voltage network** practices referred to in clause 2.5.4(1)(a);

1.3.3 engagement with **consumers** on **Aurora's customer charter**, and **consumer compensation arrangement**;

1.3.4 planning, management, and communication to **consumers** of **planned interruptions**;

1.3.5 asset data collection and asset data quality practices referred to in clause 2.5.4(1)(d);

1.3.6 asset management practices and processes referred to in clause 2.5.4(1)(e)(i) to (iii);

1.3.7 practices for identifying and reducing safety risks referred to in clause 2.5.4(1)(e)(iv);

1.3.8 cost estimation practices referred to in clause 2.5.4(1)(f); and

1.3.9 quality assurance processes referred to in clause 2.5.4(1)(g);

Progress in developing key processes and practices – disclosure years after disclosure year 2022

1.4 for each **disclosure year** except **disclosure year 2022**, a summary, a **self-assessment rating**, and reason(s) for the **self-assessment rating**, of **Aurora's** progress—

1.4.1 in ensuring the information **Aurora publicly discloses** under clause 2.4.5A(1) enables interested **persons** to understand how **Aurora** sets **prices** for each **Aurora pricing region**; and

1.4.2 against each of the following areas in **Aurora's** development plan under clause 2.5.4(1):

(a) developing and improving its **low voltage network** practices referred to in clause 2.5.4(1)(a);

(b) engagement with **consumers** on **Aurora's customer charter** and **consumer compensation arrangement**;

(c) planning, management, and communication of **planned interruptions to consumers**;

(d) asset data collection and asset data quality practices referred to in clause 2.5.4(1)(d);

(e) asset management practices and processes referred to in clause 2.5.4(1)(e)(i) to (iii);

(f) practices for identifying and reducing safety risks referred to in clause 2.5.4(1)(e)(iv);

(g) cost estimation practices referred to in clause 2.5.4(1)(f); and

(h) quality assurance processes referred to in clause 2.5.4(1)(g);

Spending and work done on Aurora's network

1.5 for each **disclosure year** except **disclosure year 2022**, the key **capital expenditure** and **operational expenditure** projects and programmes that **Aurora**—

1.5.1 has delivered on time in the most recent **disclosure year**;

1.5.2 has not yet completed, but which are on schedule in accordance with **Aurora's** project and programme delivery plan under clause 2.5.4(2);

1.5.3 has not completed on time, but had planned to complete in the most recent **disclosure year**; and

1.5.4 has not commenced, but had planned to commence, in the most recent disclosure year;

1.6 for disclosure year 2022, the following information relating to capital expenditure and operational expenditure projects and programmes that Aurora has undertaken in the disclosure year:

1.6.1 Aurora's actual capital expenditure on each of:

- (a) consumer connection;
- (b) system growth;
- (c) asset replacement and renewal;
- (d) asset relocations;
- (e) quality of supply;
- (f) legislative and regulatory; and
- (g) other reliability, safety and environment;

1.6.2 Aurora's actual operational expenditure on each of:

- (a) service interruptions and emergencies;
- (b) vegetation management;
- (c) routine and corrective maintenance and inspection;
- (d) asset replacement and renewal;
- (e) system operations and network support; and
- (f) business support;

1.6.3 asset replacement and renewal, including the number of assets replaced;

1.6.4 for the purpose of vegetation management, the percentage of the network that Aurora has—

- (a) inspected; and
- (b) felled, trimmed, removed, or sprayed;

1.7 for each **disclosure year** except **disclosure year 2022**, the following information relating to **capital expenditure** and **operational expenditure** projects and programmes **Aurora** has undertaken in the **disclosure year** in each **Aurora pricing region**:

1.7.1 **Aurora's** actual expenditure compared to the proposed expenditure in **Aurora's** project and programme delivery plan under clause 2.5.4(2), with any variance expressed as the percentage difference between proposed and actual expenditure, together with the reason(s) for the variance,—

(a) where the actual **capital expenditure** or **operational expenditure**—

(i) exceeds the expenditure proposed in **Aurora's** project and programme delivery plan under clause 2.5.4(2) by 20% or more; and

(ii) is \$1 million or more;

(b) for each of:

(i) **consumer connection;**

(ii) **system growth;**

(iii) **asset replacement and renewal;**

(iv) **asset relocations;**

(v) **quality of supply;**

(vi) **legislative and regulatory; and**

(vii) **other reliability, safety and environment;**

(c) for each of:

(i) **service interruptions and emergencies;**

(ii) **vegetation management;**

(iii) **routine and corrective maintenance and inspection;**

(iv) **asset replacement and renewal;**

(v) **system operations and network support; and**

(vi) **business support;**

1.7.2 **asset replacement and renewal, including:**

- (a) the number of assets replaced compared to the number of assets **Aurora** planned to replace in its project and programme delivery plan under clause 2.5.4(2) in the relevant **disclosure year**, with reasons for variances; and
- (b) for each asset type for which **Aurora** undertook **asset replacement and renewal** in the relevant **disclosure year**, the average total cost of replacing an asset of that type compared to the forecast average total cost of replacing the asset type in **Aurora's** project and programme delivery plan under clause 2.5.4(2);

1.7.3 compared to **Aurora's** documented planning for **vegetation management**, the percentage of the **network** that **Aurora** has, as part of its **vegetation management**, —

- (a) inspected; and
- (b) felled, trimmed, removed, or sprayed;

Quality information – for the network and Aurora pricing regions

1.8 for each **Aurora pricing region**, in a time series form for each of the most recent five **disclosure years**, the—

- 1.8.1 **planned SAIDI values;**
- 1.8.2 **planned SAIFI values;**
- 1.8.3 **unplanned SAIDI values; and**
- 1.8.4 **unplanned SAIFI values;**

1.9 for each **disclosure year** except **disclosure year 2022**, in respect of each **Aurora pricing region**, —

- 1.9.1 a table with the following information on any **complaints** from **consumers** about **Aurora's** supply of **electricity distribution services** in the most recent **disclosure year**:
 - (a) the type of **complaint**, with **Aurora** determining the different types of **complaint** by the general subject matter to which the **complaints** relate;

- (b) the number of each type of **complaint**;
- (c) the average time to resolve each type of **complaint**;
- (d) the top three types of **complaints** with the highest numbers of **complaints** and how they differ to the three types of **complaints** with the highest numbers of **complaints** from the previous **disclosure year**; and
- (e) a description of whether, and if so how, **Aurora** is using the learning and insights gained from handling **complaints** as a feedback loop to improve the quality and service levels of in supplying **electricity distribution services**;

1.9.2 regarding the most recent **disclosure year**,—

- (a) the number of safety-related incidents in relation to **network assets, maintenance, or operational activities** that created a safety risk to the public, an **Aurora** employee, or an **Aurora** contractor;
- (b) commentary on how the number of safety-related incidents compared against the previous **disclosure year**; and
- (c) any corrective actions taken in respect of these incidents;

1.10 for **Aurora's network**, in respect of the most recent **disclosure year**, the—

1.10.1 **planned SAIDI assessed value, unplanned SAIDI assessed value, planned accumulated SAIDI limit, and unplanned SAIDI limit**; and

1.10.2 **planned SAIFI assessed value, unplanned SAIFI assessed value, planned accumulated SAIFI limit, and unplanned SAIFI limit**;

1.11 for each **disclosure year** except **disclosure year 2022**, the total number of each of the following:

1.11.1 **planned interruptions cancelled with less than 10 working days' notice**;

1.11.2 **planned interruptions cancelled without notice**;

1.11.3 **planned interruptions for which **Aurora** gave additional notice**;

1.11.4 **planned interruptions for which **Aurora** did not give additional notice**;

1.11.5 planned interruptions in which the interruption either started more than one hour before, or continued for more than one hour after, the period in which the interruption was notified to occur; and

1.11.6 unplanned interruptions that Aurora intentionally initiated to carry out work on its network that did not directly relate to a fault;

Performance and engagement with consumers

1.12 regarding Aurora's performance in supplying electricity distribution services to its consumers,—

1.12.1 a self-assessment rating, and reason(s) for the self-assessment rating, regarding each of the following:

(a) for disclosure year 2022, Aurora's performance in notifying and updating consumers on interruptions affecting them; and

(b) for each disclosure year except disclosure year 2022,—

(i) how effectively Aurora has engaged with different consumers in each Aurora pricing region; and

(ii) any consultation Aurora has done with consumers on capital expenditure or operational expenditure projects or programmes, Aurora proposes to reprioritise or substitute;

1.12.2 a summary of,—

(a) for each disclosure year,—

(i) whether, and if so how, Aurora has consulted with consumers on any proposed changes to its customer charter, consumer compensation arrangement, or additional pricing methodology disclosures under clause 2.4.5A;

(ii) any feedback from consumers on Aurora's additional pricing methodology disclosures under clause 2.4.5A; and

(iii) whether Aurora met its commitments under its customer charter and consumer compensation arrangement, and if not, the respects in which Aurora failed to do so, and the reasons for such failure; and

- (b) for each disclosure year except disclosure year 2022, —
 - (i) whether, and if so how, Aurora has improved consumer awareness of its customer charter and consumer compensation arrangement;
 - (ii) any payments Aurora has made in respect of each service level standard under Aurora’s consumer compensation arrangement;
 - (iii) whether, and if so how, Aurora has taken account of consumers’ feedback on any aspect of its supply of electricity distribution services – for example, feedback on Aurora’s presentation of its summary of the key features of the most recent annual delivery report; and
 - (iv) the different groups of consumers Aurora has engaged with;

1.12.3 for each disclosure year except disclosure year 2022, the following information on Aurora’s supply of electricity distribution services to its worst-performing feeders:

- (a) using a map, or series of maps, of appropriate scale, the geographical location of each of Aurora’s worst-performing feeders;
- (b) for the worst-performing feeders:
 - (i) the planned SAIFI value(s);
 - (ii) the planned SAIDI value(s);
 - (iii) the unplanned SAIFI value(s); and
 - (iv) the unplanned SAIDI value(s);
- (c) any plans Aurora has to improve supply of electricity distribution services on its worst-performing feeders.

Additional content required in annual delivery reports disclosed after mid-period expert report

2. In addition to the content specified under clause 1 of this attachment, Aurora must include in the annual delivery report it publicly discloses for each of disclosure year 2025 and disclosure year 2026, a summary of any actions Aurora has taken as a result of any recommendations from the report or reports from one or more

independent experts under clause 2.8.5A — for example, updating **Aurora's** development plan under clause 2.5.4(1).

Schedule 1 Analytical Ratios

Company Name
For Year Ended

SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7	1(i): Expenditure metrics				
8		Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	Expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per MVA of capacity from EDB-owned distribution transformers (\$/MVA)
9	Operational expenditure	-	-	-	-
10	Network	-	-	-	-
11	Non-network	-	-	-	-
12					
13	Expenditure on assets	-	-	-	-
14	Network	-	-	-	-
15	Non-network	-	-	-	-
16					
17	1(ii): Revenue metrics				
18		Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)		
19	Total consumer line charge revenue	-	-		
20	Standard consumer line charge revenue	-	-		
21	Non-standard consumer line charge revenue	-	-		
22					
23	1(iii): Service intensity measures				
24					
25	Demand density	-		<i>Maximum coincident system demand per km of circuit length (for supply) (kW/km)</i>	
26	Volume density	-		<i>Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)</i>	
27	Connection point density	-		<i>Average number of ICPs per km of circuit length (for supply) (ICPs/km)</i>	
28	Energy intensity	-		<i>Total energy delivered to ICPs per average number of ICPs (kWh/ICP)</i>	
29					
30	1(iv): Composition of regulatory income				
31			(\$000)	% of revenue	
32	Operational expenditure		-	-	
33	Pass-through and recoverable costs excluding financial incentives and wash-ups		-	-	
34	Total depreciation		-	-	
35	Total revaluations		-	-	
36	Regulatory tax allowance		-	-	
37	Regulatory profit/(loss) including financial incentives and wash-ups		-	-	
38	Total regulatory income		-		
39					
40	1(v): Reliability				
41					
42	Interruption rate		-	<i>Interruptions per 100 circuit km</i>	

Schedule 2 Report on Return on Investment

Company Name
 For Year Ended

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(ii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref		CY-2	CY-1	Current Year CY
7	2(i): Return on Investment			
8				
9	ROI – comparable to a post tax WACC	%	%	%
10	Reflecting all revenue earned	-	-	-
11	Excluding revenue earned from financial incentives	-	-	-
12	Excluding revenue earned from financial incentives and wash-ups	-	-	-
13				
14	Mid-point estimate of post tax WACC			
15	25th percentile estimate			
16	75th percentile estimate			
17				
18				
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	-	-	-
21	Excluding revenue earned from financial incentives	-	-	-
22	Excluding revenue earned from financial incentives and wash-ups	-	-	-
23				
24	WACC rate used to set regulatory price path			
25				
26	Mid-point estimate of vanilla WACC			
27	25th percentile estimate			
28	75th percentile estimate			
29				
30	2(ii): Information Supporting the ROI		(\$000)	
31				
32	Total opening RAB value	-		
33	plus Opening deferred tax	-		
34	Opening RIV		-	
35				
36	Line charge revenue		-	
37				
38	Expenses cash outflow	-		
39	add Assets commissioned	-		
40	less Asset disposals	-		
41	add Tax payments	-		
42	less Other regulated income	-		
43	Mid-year net cash outflows		-	
44				
45	Term credit spread differential allowance		-	
46				
47	Total closing RAB value	-		
48	less Adjustment resulting from asset allocation	-		
49	less Lost and found assets adjustment	-		
50	plus Closing deferred tax	-		
51	Closing RIV		-	
52				
53	ROI – comparable to a vanilla WACC			-
54				
55	Leverage (%)			42%
56	Cost of debt assumption (%)			-
57	Corporate tax rate (%)			-
58				
59	ROI – comparable to a post tax WACC			-
60				

61	2(iii): Information Supporting the Monthly ROI						
62							
63	Opening RIV					N/A	
64							
65							
66		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows
67	April						-
68	May						-
69	June						-
70	July						-
71	August						-
72	September						-
73	October						-
74	November						-
75	December						-
76	January						-
77	February						-
78	March						-
79	Total	-	-	-	-	-	-
80							
81	Tax payments						N/A
82							
83	Term credit spread differential allowance						N/A
84							
85	Closing RIV						N/A
86							
87							
88	Monthly ROI – comparable to a vanilla WACC						N/A
89							
90	Monthly ROI – comparable to a post tax WACC						N/A
91							
92	2(iv): Year-End ROI Rates for Comparison Purposes						
93							
94	Year-end ROI – comparable to a vanilla WACC						-
95							
96	Year-end ROI – comparable to a post tax WACC						-
97							
98	<i>* these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.</i>						
99							
100	2(v): Financial Incentives and Wash-Ups						
101							
102	Net recoverable costs allowed under incremental rolling incentive scheme						-
103	Purchased assets – avoided transmission charge						
104	Energy efficiency and demand incentive allowance						
105	Quality incentive adjustment						
106	Other financial incentives						
107	Financial incentives						-
108							
109	Impact of financial incentives on ROI						-
110							
111	Input methodology claw-back						
112	CPP application recoverable costs						
113	Catastrophic event allowance						
114	Capex wash-up adjustment						
115	Transmission asset wash-up adjustment						
116	2013–15 NPV wash-up allowance						
117	Reconsideration event allowance						
118	Other wash-ups						
119	Wash-up costs						-
120							
121	Impact of wash-up costs on ROI						-

Schedule 3 Report on Regulatory Profit

Company Name
 For Year Ended

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

sch ref		(\$000)
7	3(i): Regulatory Profit	
8	Income	
9	Line charge revenue	-
10	plus Gains / (losses) on asset disposals	-
11	plus Other regulated income (other than gains / (losses) on asset disposals)	-
12		
13	Total regulatory income	-
14	Expenses	
15	less Operational expenditure	-
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	-
18		
19	Operating surplus / (deficit)	-
20		
21	less Total depreciation	-
22		
23	plus Total revaluations	-
24		
25	Regulatory profit / (loss) before tax	-
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	-
30		
31	Regulatory profit/(loss) including financial incentives and wash-ups	-
32		
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	(\$000)
34	Pass through costs	
35	Rates	-
36	Commerce Act levies	-
37	Industry levies	-
38	CPP specified pass through costs	-
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	-
41	Transpower new investment contract charges	-
42	System operator services	-
43	Distributed generation allowance	-
44	Extended reserves allowance	-
45	Other recoverable costs excluding financial incentives and wash-ups	-
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	-
47		

		(\$000)		
		CY-1	CY	
48	3(iii): Incremental Rolling Incentive Scheme			
49				
50				
51	Allowed controllable opex			
52	Actual controllable opex			
53				
54	Incremental change in year			
55				
56		Previous years' incremental change	Previous years' incremental change adjusted for inflation	
57	CY-5 [year]			
58	CY-4 [year]			
59	CY-3 [year]			
60	CY-2 [year]			
61	CY-1 [year]			
62	Net incremental rolling incentive scheme		-	
63				
64	Net recoverable costs allowed under incremental rolling incentive scheme		-	
65	3(iv): Merger and Acquisition Expenditure			
66	Merger and acquisition expenditure		(\$000)	
67				
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>			
69	3(v): Other Disclosures			
70			(\$000)	
71	Self-insurance allowance			

Schedule 4 Report on Value of the Regulatory Asset Base (Rolled Forward)

Company Name For Year Ended		RAB CY-4 (\$000)	RAB CY-3 (\$000)	RAB CY-2 (\$000)	RAB CY-1 (\$000)	RAB CY (\$000)
SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)						
This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.						
4(i): Regulatory Asset Base Value (Rolled Forward)						
7	Total opening RAB value					
8	less Total depreciation					
9	plus Total revaluations					
10	plus Assets commissioned					
11	less Asset disposals					
12	plus Lost and found assets adjustment					
13	plus Adjustment resulting from asset allocation					
14	Total closing RAB value					
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
4(ii): Unallocated Regulatory Asset Base						
26	Total opening RAB value					
27	less					
28	Total depreciation					
29	plus					
30	Total revaluations					
31	plus					
32	Assets commissioned (other than below)					
33	Assets acquired from a regulated supplier					
34	Assets acquired from a related party					
35	Assets commissioned					
36	less					
37	Asset disposals (other than below)					
38	Asset disposals to a regulated supplier					
39	Asset disposals to a related party					
40	Asset disposals					
41	plus					
42	Lost and found assets adjustment					
43	plus					
44	Adjustment resulting from asset allocation					
45	Total closing RAB value					
46						
47						
48						
49						
50						

* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.

76	4(v): Regulatory Depreciation									
77	Depreciation - standard									
78	Depreciation - no standard life assets									
79	Depreciation - modified life assets									
80	Depreciation - alternative depreciation in accordance with CPP									
81	Total depreciation									
82										
83										
84										
85										
86	4(vi): Disclosure of Changes to Depreciation Profiles									
87	Asset or assets with changes to depreciation*									
88	Reason for non-standard depreciation (text entry)									
89	Closing RAB value under 'non-standard' depreciation									
90	Depreciation charge for the period (RAB)									
91	Closing RAB value under 'standard' depreciation									
92										
93										
94										
95										
96										
97										
98	4(vii): Disclosure by Asset Category									
99	(\$'000 unless otherwise specified)									
100	Total opening RAB value									
101	less Total depreciation									
102	plus Total revaluations									
103	less Assets commissioned									
104	plus Asset disposals									
105	less Lost and found assets adjustment									
106	plus Adjustment resulting from asset allocation									
107	plus Asset category transfers									
108	Total closing RAB value									
109										
110	Asset Life									
111	Weighted average remaining asset life (years)									
112	Weighted average expected total asset life (years)									

Schedule 5a Report on Regulatory Tax Allowance

Company Name
 For Year Ended

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

			(\$000)
7	5a(i): Regulatory Tax Allowance		
8	Regulatory profit / (loss) before tax		-
9			
10	<i>plus</i> Income not included in regulatory profit / (loss) before tax but taxable	*	
11	Expenditure or loss in regulatory profit / (loss) before tax but not deductible	*	
12	Amortisation of initial differences in asset values	-	
13	Amortisation of revaluations	-	
14			-
15			
16	<i>less</i> Total revaluations	-	
17	Income included in regulatory profit / (loss) before tax but not taxable	*	
18	Discretionary discounts and customer rebates		
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax	*	
20	Notional deductible interest	-	
21			-
22			
23	Regulatory taxable income		-
24			
25	<i>less</i> Utilised tax losses		
26	Regulatory net taxable income		-
27			
28	Corporate tax rate (%)		
29	Regulatory tax allowance		-
30			
31	* Workings to be provided in Schedule 14		
32	5a(ii): Disclosure of Permanent Differences		
33	In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).		
34	5a(iii): Amortisation of Initial Difference in Asset Values		(\$000)
35			
36	Opening unamortised initial differences in asset values		
37	<i>less</i> Amortisation of initial differences in asset values	-	
38	<i>plus</i> Adjustment for unamortised initial differences in assets acquired		
39	<i>less</i> Adjustment for unamortised initial differences in assets disposed		
40	Closing unamortised initial differences in asset values		-
41			
42	Opening weighted average remaining useful life of relevant assets (years)		
43			

44	5a(iv): Amortisation of Revaluations		(\$000)
45			
46	Opening sum of RAB values without revaluations		
47			
48	Adjusted depreciation		
49	Total depreciation	-	
50	Amortisation of revaluations		-
51			
52	5a(v): Reconciliation of Tax Losses		(\$000)
53			
54	Opening tax losses		
55	plus Current period tax losses		
56	less Utilised tax losses		
57	Closing tax losses		-
58	5a(vi): Calculation of Deferred Tax Balance		(\$000)
59			
60	Opening deferred tax		
61			
62	plus Tax effect of adjusted depreciation	-	
63			
64	less Tax effect of tax depreciation	-	
65			
66	plus Tax effect of other temporary differences*		
67			
68	less Tax effect of amortisation of initial differences in asset values	-	
69			
70	plus Deferred tax balance relating to assets acquired in the disclosure year		
71			
72	less Deferred tax balance relating to assets disposed in the disclosure year	-	
73			
74	plus Deferred tax cost allocation adjustment	-	
75			
76	Closing deferred tax		-
77			
78	5a(vii): Disclosure of Temporary Differences		
79	<i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i>		
80			
81	5a(viii): Regulatory Tax Asset Base Roll-Forward		
82			(\$000)
83	Opening sum of regulatory tax asset values		
84	less Tax depreciation		
85	plus Regulatory tax asset value of assets commissioned		
86	less Regulatory tax asset value of asset disposals		
87	plus Lost and found assets adjustment		
88	plus Adjustment resulting from asset allocation		
89	plus Other adjustments to the RAB tax value		
90	Closing sum of regulatory tax asset values		-

Schedule 5b Report on Related Party Transactions

Company Name
 For Year Ended

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the ID determination.
 This information is part of audited disclosure information (as defined in clause 1.4 of the ID determination), and so is subject to the assurance report required by clause 2.8.

sch ref

		(\$000)	(\$000)
7	5b(i): Summary—Related Party Transactions		
8	Total regulatory income		<input style="width: 80px; height: 20px;" type="text"/>
9			
10	Market value of asset disposals		<input style="width: 80px; height: 20px;" type="text"/>
11			
12	Service interruptions and emergencies	-	
13	Vegetation management	-	
14	Routine and corrective maintenance and inspection	-	
15	Asset replacement and renewal (opex)	-	
16	Network opex		-
17	Business support	-	
18	System operations and network support	-	
19	Operational expenditure		-
20	Consumer connection	-	
21	System growth	-	
22	Asset replacement and renewal (capex)	-	
23	Asset relocations	-	
24	Quality of supply	-	
25	Legislative and regulatory	-	
26	Other reliability, safety and environment	-	
27	Expenditure on non-network assets		-
28	Expenditure on assets		-
29	Cost of financing		
30	Value of capital contributions		
31	Value of vested assets		
32	Capital Expenditure		-
33	Total expenditure		-
34			
35	Other related party transactions		<input style="width: 80px; height: 20px;" type="text"/>

5b(iii): Total Opex and Capex Related Party Transactions

			Total value of transactions (\$000)
	Name of related party	Nature of opex or capex service provided	
37			
38		[Select one]	
39		[Select one]	
40		[Select one]	
41		[Select one]	
42		[Select one]	
43		[Select one]	
44		[Select one]	
45		[Select one]	
46		[Select one]	
47		[Select one]	
48		[Select one]	
49		[Select one]	
50		[Select one]	
51		[Select one]	
52		[Select one]	
53	Total value of related party transactions		-

** include additional rows if needed*

Schedule 5c Report on Term Credit Spread Differential Allowance

Company Name For Year Ended									
SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE									
This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.									
7	5c(i): Qualifying Debt (may be Commission only)								
8	Issuing party	Issue date	Pricing date	Original tenor (in years)	Coupon rate (%)	Book value at issue date (NZD)	Book value at date of financial statements (NZD)	Term Credit Spread Difference	Debt issue cost readjustment
9									
10									
11									
12									
13									
14									
15									
16									
17	* include additional rows if needed								
18	5c(ii): Attribution of Term Credit Spread Differential								
19	Gross term credit spread differential								
20	--								
21	Total book value of interest bearing debt								
22	Leverage								
23	4.2%								
24	Average opening and closing RAB values								
25	Attribution Rate (%)								
26	--								
27	Term credit spread differential allowance								
27	--								

Schedule 5d Report on Cost Allocations

Company Name For Year Ended						
		Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase (\$000s)
SCHEDULE 5d: REPORT ON COST ALLOCATIONS						
This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.						
<i>sch ref</i>						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						

39	5d(ii): Other Cost Allocations		
40	Pass through and recoverable costs		
41	Pass through costs		
42	Directly attributable		
43	Not directly attributable		
44	Total attributable to regulated service		
45	Recoverable costs		
46	Directly attributable		
47	Not directly attributable		
48	Total attributable to regulated service		
49			
50	5d(iii): Changes in Cost Allocations* †		
51			
52	Change in cost allocation 1		
53	Cost category		
54	Original allocator or line items		
55	New allocator or line items		
56			
57	Rationale for change		
58			
59			
60	Change in cost allocation 2		
61	Cost category		
62	Original allocator or line items		
63	New allocator or line items		
64			
65			
66	Rationale for change		
67			
68			
69			
70	Change in cost allocation 3		
71	Cost category		
72	Original allocator or line items		
73	New allocator or line items		
74			
75	Rationale for change		
76			
77			
78			
79			

(\$000)

(\$000)

	CY-1	Current Year (CY)
Original allocation		
New allocation		
Difference		

(\$000)

	CY-1	Current Year (CY)
Original allocation		
New allocation		
Difference		

(\$000)

	CY-1	Current Year (CY)
Original allocation		
New allocation		
Difference		

* a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.
 † include additional rows if needed

Schedule 5e Report on Asset Allocations

Company Name			
For Year Ended			
SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS			
<small>This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.</small>			
<i>sch ref</i>		Value allocated (\$000s)	
7	5e(i): Regulated Service Asset Values	Electricity distribution services	
8			
9			
10	Subtransmission lines		
11	Directly attributable		
12	Not directly attributable		
13	Total attributable to regulated service	-	
14	Subtransmission cables		
15	Directly attributable		
16	Not directly attributable		
17	Total attributable to regulated service	-	
18	Zone substations		
19	Directly attributable		
20	Not directly attributable		
21	Total attributable to regulated service	-	
22	Distribution and LV lines		
23	Directly attributable		
24	Not directly attributable		
25	Total attributable to regulated service	-	
26	Distribution and LV cables		
27	Directly attributable		
28	Not directly attributable		
29	Total attributable to regulated service	-	
30	Distribution substations and transformers		
31	Directly attributable		
32	Not directly attributable		
33	Total attributable to regulated service	-	
34	Distribution switchgear		
35	Directly attributable		
36	Not directly attributable		
37	Total attributable to regulated service	-	
38	Other network assets		
39	Directly attributable		
40	Not directly attributable		
41	Total attributable to regulated service	-	
42	Non-network assets		
43	Directly attributable		
44	Not directly attributable		
45	Total attributable to regulated service	-	
46			
47	Regulated service asset value directly attributable	-	
48	Regulated service asset value not directly attributable	-	
49	Total closing RAB value	-	
50			
51	5e(ii): Changes in Asset Allocations* †		
52			(\$000)
53	Change in asset value allocation 1		CY-1 Current Year (CY)
54	Asset category		
55	Original allocator or line items		
56	New allocator or line items		
57			-
58	Rationale for change		
59			
60			
61			(\$000)
62	Change in asset value allocation 2		CY-1 Current Year (CY)
63	Asset category		
64	Original allocator or line items		
65	New allocator or line items		
66			-
67	Rationale for change		
68			
69			
70			(\$000)
71	Change in asset value allocation 3		CY-1 Current Year (CY)
72	Asset category		
73	Original allocator or line items		
74	New allocator or line items		
75			-
76	Rationale for change		
77			
78			
79	* a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component		
80	† include additional rows if needed		

Schedule 5f Report Supporting Cost Allocations

Company Name For Year Ended									
Line Item*	Allocation methodology type	Cost allocator	Allocator Matrix (X)		Value allocated (\$000)			O/V/AAA Allocation increase (\$000)	
			Electricity distribution services	Non-electricity distribution services	Electricity distribution services	Non-electricity distribution services	Arm's length deduction		Total
Service interruptions and emergencies									
11	Has net cost description	e.g. ABAA	Allocator 1	[Select one]					
12	Has net cost description	e.g. ABAA	Allocator 2	[Select one]					
13	Has net cost description	e.g. ABAA	Allocator 3	[Select one]					
14	Has net cost description	e.g. ABAA	Allocator 4	[Select one]					
15	Not directly attributable								
Vegetation management									
16	Has net cost description	e.g. ABAA	Allocator 1	[Select one]					
17	Has net cost description	e.g. ABAA	Allocator 2	[Select one]					
18	Has net cost description	e.g. ABAA	Allocator 3	[Select one]					
19	Has net cost description	e.g. ABAA	Allocator 4	[Select one]					
20	Has net cost description	e.g. ABAA	Allocator 1	[Select one]					
21	Has net cost description	e.g. ABAA	Allocator 2	[Select one]					
22	Not directly attributable								
Routine and corrective maintenance and inspection									
23	Has net cost description	e.g. ABAA	Allocator 1	[Select one]					
24	Has net cost description	e.g. ABAA	Allocator 2	[Select one]					
25	Has net cost description	e.g. ABAA	Allocator 3	[Select one]					
26	Has net cost description	e.g. ABAA	Allocator 4	[Select one]					
27	Has net cost description	e.g. ABAA	Allocator 1	[Select one]					
28	Not directly attributable								
Asset replacement and renewal									
29	Has net cost description	e.g. ABAA	Allocator 1	[Select one]					
30	Has net cost description	e.g. ABAA	Allocator 2	[Select one]					
31	Has net cost description	e.g. ABAA	Allocator 3	[Select one]					
32	Has net cost description	e.g. ABAA	Allocator 4	[Select one]					
33	Has net cost description	e.g. ABAA	Allocator 1	[Select one]					
34	Not directly attributable								

SCHEDULE 5f: REPORT SUPPORTING COST ALLOCATIONS

This schedule requires additional detail on the asset allocation methodology applied in allocating asset values that are not directly attributable, to support the information provided in Schedule 5f (Cost allocations). This schedule is not required to be publicly disclosed, but must be disclosed to the Commission.

This information is part of audited disclosure information (as defined in section 14 of the ID Determination), and so is subject to the assurance report required by section 2.8.

37	System operations and network support									
38	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						
39	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						
40	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						
41	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						
42	Not directly attributable									
43	Business support									
44	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						
45	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						
46	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						
47	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						
48	Not directly attributable									
49	Operating costs not directly attributable									
50										
51										
52	Pass through and recoverable costs									
53	Pass through costs									
54	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						
55	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						
56	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						
57	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						
58	Not directly attributable									
59	Recoverable costs									
60	Insert cost description	e.g. ABAA	Allocator 1	[Select one]						
61	Insert cost description	e.g. ABAA	Allocator 2	[Select one]						
62	Insert cost description	e.g. ABAA	Allocator 3	[Select one]						
63	Insert cost description	e.g. ABAA	Allocator 4	[Select one]						
64	Not directly attributable									
65	<i>* Include additional rows if needed</i>									

Schedule 5g Report Supporting Asset Allocations

Company Name For Year Ended												
Line Item*	Allocation methodology type	Allocator	Allocator type	Allocator Metric (%)		Arm's length deduction	Value allocated (\$000)		O/VAAA Allocation Increase (\$000)			
				Electricity distribution services	Non-electricity distribution services		Electricity distribution services	Non-electricity distribution services				
Subtransmission lines												
11	Invert to 11kV description	Allocat 1	[Select one]									
12	Invert to 11kV description	Allocat 2	[Select one]									
13	Invert to 11kV description	Allocat 3	[Select one]									
14	Invert to 11kV description	Allocat 4	[Select one]									
15	Invert to 11kV description											
Not directly attributable												
Subtransmission cables												
17	Invert to 11kV description	Allocat 1	[Select one]									
18	Invert to 11kV description	Allocat 2	[Select one]									
19	Invert to 11kV description	Allocat 3	[Select one]									
20	Invert to 11kV description	Allocat 4	[Select one]									
21	Invert to 11kV description											
Not directly attributable												
Zone substations												
23	Invert to 11kV description	Allocat 1	[Select one]									
24	Invert to 11kV description	Allocat 2	[Select one]									
25	Invert to 11kV description	Allocat 3	[Select one]									
26	Invert to 11kV description	Allocat 4	[Select one]									
27	Invert to 11kV description											
Not directly attributable												
Distribution and LV lines												
29	Invert to 11kV description	Allocat 1	[Select one]									
30	Invert to 11kV description	Allocat 2	[Select one]									
31	Invert to 11kV description	Allocat 3	[Select one]									
32	Invert to 11kV description	Allocat 4	[Select one]									
33	Invert to 11kV description											
Not directly attributable												

SCHEDULE 5g: REPORT SUPPORTING ASSET ALLOCATIONS
 This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

36	Distribution and LV cables									
37	Insert asset description	e.g. ABAA	Allocator 1	[Select one]						
38	Insert asset description	e.g. ABAA	Allocator 2	[Select one]						
39	Insert asset description	e.g. ABAA	Allocator 3	[Select one]						
40	Insert asset description	e.g. ABAA	Allocator 4	[Select one]						
41	Not directly attributable									
42										
43	Distribution substations and transformers									
44	Insert asset description	e.g. ABAA	Allocator 1	[Select one]						
45	Insert asset description	e.g. ABAA	Allocator 2	[Select one]						
46	Insert asset description	e.g. ABAA	Allocator 3	[Select one]						
47	Insert asset description	e.g. ABAA	Allocator 4	[Select one]						
48	Not directly attributable									
49										
50	Distribution switchgear									
51	Insert asset description	e.g. ABAA	Allocator 1	[Select one]						
52	Insert asset description	e.g. ABAA	Allocator 2	[Select one]						
53	Insert asset description	e.g. ABAA	Allocator 3	[Select one]						
54	Insert asset description	e.g. ABAA	Allocator 4	[Select one]						
55	Not directly attributable									
56										
57	Other network assets									
58	Insert asset description	e.g. ABAA	Allocator 1	[Select one]						
59	Insert asset description	e.g. ABAA	Allocator 2	[Select one]						
60	Insert asset description	e.g. ABAA	Allocator 3	[Select one]						
61	Insert asset description	e.g. ABAA	Allocator 4	[Select one]						
62	Not directly attributable									
63	Non-network assets									
64	Insert asset description	e.g. ABAA	Allocator 1	[Select one]						
65	Insert asset description	e.g. ABAA	Allocator 2	[Select one]						
66	Insert asset description	e.g. ABAA	Allocator 3	[Select one]						
67	Insert asset description	e.g. ABAA	Allocator 4	[Select one]						
68	Not directly attributable									
69	Regulated service asset value not directly attributable									
70	<i>* include additional rows if needed</i>									

Schedule 6a Report on Capital Expenditure for the Disclosure Year

Company Name
 For Year Ended

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		(\$000)	(\$000)
7	6a(i): Expenditure on Assets		
8	Consumer connection		-
9	System growth		-
10	Asset replacement and renewal		-
11	Asset relocations		-
12	Reliability, safety and environment:		
13	Quality of supply	-	
14	Legislative and regulatory	-	
15	Other reliability, safety and environment	-	
16	Total reliability, safety and environment		-
17	Expenditure on network assets		-
18	Expenditure on non-network assets		-
19			
20	Expenditure on assets		-
21	plus Cost of financing		-
22	less Value of capital contributions		-
23	plus Value of vested assets		-
24			
25	Capital expenditure		-
26	6a(ii): Subcomponents of Expenditure on Assets (where known)		(\$000)
27	Energy efficiency and demand side management, reduction of energy losses		
28	Overhead to underground conversion		
29	Research and development		
30	6a(iii): Consumer Connection		
31	<i>Consumer types defined by EDB*</i>	(\$000)	(\$000)
32	[EDB consumer type]		
33	[EDB consumer type]		
34	[EDB consumer type]		
35	[EDB consumer type]		
36	[EDB consumer type]		
37	<i>* include additional rows if needed</i>		
38	Consumer connection expenditure		-
39			
40	less Capital contributions funding consumer connection expenditure		
41	Consumer connection less capital contributions		-
42	6a(iv): System Growth and Asset Replacement and Renewal		
43		System Growth	Asset Replacement and Renewal
44		(\$000)	(\$000)
45	Subtransmission		
46	Zone substations		
47	Distribution and LV lines		
48	Distribution and LV cables		
49	Distribution substations and transformers		
50	Distribution switchgear		
51	Other network assets		
52	System growth and asset replacement and renewal expenditure	-	-
53	less Capital contributions funding system growth and asset replacement and renewal		
54	System growth and asset replacement and renewal less capital contributions	-	-
55			
56	6a(v): Asset Relocations		
57	<i>Project or programme*</i>	(\$000)	(\$000)
58	[Description of material project or programme]		
59	[Description of material project or programme]		
60	[Description of material project or programme]		
61	[Description of material project or programme]		
62	[Description of material project or programme]		
63	<i>* include additional rows if needed</i>		
64	All other projects or programmes - asset relocations		
65	Asset relocations expenditure		-
66	less Capital contributions funding asset relocations		
67	Asset relocations less capital contributions		-

68				
69	6a(vi): Quality of Supply			
70	<i>Project or programme*</i>		(\$000)	(\$000)
71	[Description of material project or programme]			
72	[Description of material project or programme]			
73	[Description of material project or programme]			
74	[Description of material project or programme]			
75	[Description of material project or programme]			
76	<i>* include additional rows if needed</i>			
77	All other projects programmes - quality of supply			
78	Quality of supply expenditure			—
79	<i>less</i> Capital contributions funding quality of supply			
80	Quality of supply less capital contributions			—
81	6a(vii): Legislative and Regulatory			
82	<i>Project or programme*</i>		(\$000)	(\$000)
83	[Description of material project or programme]			
84	[Description of material project or programme]			
85	[Description of material project or programme]			
86	[Description of material project or programme]			
87	[Description of material project or programme]			
88	<i>* include additional rows if needed</i>			
89	All other projects or programmes - legislative and regulatory			
90	Legislative and regulatory expenditure			—
91	<i>less</i> Capital contributions funding legislative and regulatory			
92	Legislative and regulatory less capital contributions			—
93	6a(viii): Other Reliability, Safety and Environment			
94	<i>Project or programme*</i>		(\$000)	(\$000)
95	[Description of material project or programme]			
96	[Description of material project or programme]			
97	[Description of material project or programme]			
98	[Description of material project or programme]			
99	[Description of material project or programme]			
100	<i>* include additional rows if needed</i>			
101	All other projects or programmes - other reliability, safety and environment			
102	Other reliability, safety and environment expenditure			—
103	<i>less</i> Capital contributions funding other reliability, safety and environment			
104	Other reliability, safety and environment less capital contributions			—
105				
106	6a(ix): Non-Network Assets			
107	Routine expenditure			
108	<i>Project or programme*</i>		(\$000)	(\$000)
109	[Description of material project or programme]			
110	[Description of material project or programme]			
111	[Description of material project or programme]			
112	[Description of material project or programme]			
113	[Description of material project or programme]			
114	<i>* include additional rows if needed</i>			
115	All other projects or programmes - routine expenditure			
116	Routine expenditure			—
117	Atypical expenditure			
118	<i>Project or programme*</i>		(\$000)	(\$000)
119	[Description of material project or programme]			
120	[Description of material project or programme]			
121	[Description of material project or programme]			
122	[Description of material project or programme]			
123	[Description of material project or programme]			
124	<i>* include additional rows if needed</i>			
125	All other projects or programmes - atypical expenditure			
126	Atypical expenditure			—
127				
128	Expenditure on non-network assets			—

Schedule 6b Report on Operational Expenditure for the Disclosure Year

Schedule 7 Comparison of Forecasts to Actual Expenditure

Company Name
 For Year Ended

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref

7(i): Revenue		Target (\$000) ¹	Actual (\$000)	% variance
7				
8	Line charge revenue		-	-
7(ii): Expenditure on Assets		Forecast (\$000) ²	Actual (\$000)	% variance
9				
10	Consumer connection		-	-
11	System growth		-	-
12	Asset replacement and renewal		-	-
13	Asset relocations		-	-
14	Reliability, safety and environment:			
15	Quality of supply		-	-
16	Legislative and regulatory		-	-
17	Other reliability, safety and environment		-	-
18	Total reliability, safety and environment		-	-
19	Expenditure on network assets		-	-
20	Expenditure on non-network assets		-	-
21	Expenditure on assets		-	-
7(iii): Operational Expenditure				
22				
23	Service interruptions and emergencies		-	-
24	Vegetation management		-	-
25	Routine and corrective maintenance and inspection		-	-
26	Asset replacement and renewal		-	-
27	Network opex		-	-
28	System operations and network support		-	-
29	Business support		-	-
30	Non-network opex		-	-
31	Operational expenditure		-	-
7(iv): Subcomponents of Expenditure on Assets (where known)				
32				
33	Energy efficiency and demand side management, reduction of energy losses		-	-
34	Overhead to underground conversion		-	-
35	Research and development		-	-
36				
7(v): Subcomponents of Operational Expenditure (where known)				
37				
38	Energy efficiency and demand side management, reduction of energy losses		-	-
39	Direct billing		-	-
40	Research and development		-	-
41	Insurance		-	-
42				

¹ From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination

² From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)

Schedule 8 Report on Billed Quantities and Line Charge Revenues

<div style="display: flex; justify-content: space-between; border: 1px solid black; padding: 5px;"> Company Name For Year Ended Network / Sub-Network Name </div>											
SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES <small>This schedule requires the billed quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedules. Information is also required on the number of ICPs that are included in each consumer group or price category code, and the energy delivered to these ICPs.</small>											
8(i): Billed Quantities by Price Component											
8	Consumer group name or price category code	Consumer type or types (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)						
9			[Select one]								
10			[Select one]								
11			[Select one]								
12			[Select one]								
13			[Select one]								
14			[Select one]								
15			[Select one]								
16			[Select one]								
17			[Select one]								
18			[Select one]								
19			[Select one]								
20			[Select one]								
21			[Select one]								
22			[Select one]								
23			[Select one]								
24			[Select one]								
25	<small>Add extra rows for additional consumer groups or price category codes as necessary</small>										
26							Standard consumer totals	-	-	-	-
27							Non-standard consumer totals	-	-	-	-
28							Total for all consumers	-	-	-	-
29											
30											
31											
32											
33											
34											
8(ii): Line Charge Revenues (\$000) by Price Component											
35	Consumer group name or price category code	Consumer type or types (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	National revenue foregone from posted discounts (if applicable)						
36			[Select one]								
37			[Select one]								
38			[Select one]								
39			[Select one]								
40			[Select one]								
41			[Select one]								
42			[Select one]								
43			[Select one]								
44			[Select one]								
45			[Select one]								
46			[Select one]								
47	<small>Add extra rows for additional consumer groups or price category codes as necessary</small>										
48							Standard consumer totals	-	-	-	-
49							Non-standard consumer totals	-	-	-	-
50							Total for all consumers	-	-	-	-
51											
52											
53											

Schedule 9a Asset Register

					Company Name		
					For Year Ended		
					Network / Sub-network Name		
SCHEDULE 9a: ASSET REGISTER							
This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.							
sch ref							
8	Voltage	Asset category	Asset class	Units	Items at start of year (quantity)	Items at end of year (quantity)	Data accuracy (1-4)
9	All	Overhead Line	Concrete poles / steel structure	No.			–
10	All	Overhead Line	Wood poles	No.			–
11	All	Overhead Line	Other pole types	No.			–
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km			–
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km			–
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km			–
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km			–
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km			–
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km			–
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km			–
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km			–
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km			–
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km			–
22	HV	Subtransmission Cable	Subtransmission submarine cable	km			–
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.			–
24	HV	Zone substation Buildings	Zone substations 110kV+	No.			–
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.			–
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.			–
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.			–
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.			–
29	HV	Zone substation switchgear	33kV RMU	No.			–
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.			–
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.			–
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.			–
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.			–
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.			–
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km			–
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km			–
37	HV	Distribution Line	SWER conductor	km			–
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km			–
39	HV	Distribution Cable	Distribution UG PILC	km			–
40	HV	Distribution Cable	Distribution Submarine Cable	km			–
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.			–
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.			–
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.			–
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.			–
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.			–
46	HV	Distribution Transformer	Pole Mounted Transformer	No.			–
47	HV	Distribution Transformer	Ground Mounted Transformer	No.			–
48	HV	Distribution Transformer	Voltage regulators	No.			–
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.			–
50	LV	LV Line	LV OH Conductor	km			–
51	LV	LV Cable	LV UG Cable	km			–
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km			–
53	LV	Connections	OH/UG consumer service connections	No.			–
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.			–
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot			–
56	All	Capacitor Banks	Capacitors including controls	No.			–
57	All	Load Control	Centralised plant	Lot			–
58	All	Load Control	Relays	No.			–
59	All	Civils	Cable Tunnels	km			–

Schedule 9c Report on Overhead Lines and Underground Cables

	Company Name <input style="width: 100%;" type="text"/>
	For Year Ended <input style="width: 100%;" type="text"/>
	Network / Sub-network Name <input style="width: 100%;" type="text"/>

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

				Total circuit length (km)
9				
10	Circuit length by operating voltage (at year end)	Overhead (km)	Underground (km)	(km)
11	> 66kV			-
12	50kV & 66kV			-
13	33kV			-
14	SWER (all SWER voltages)			-
15	22kV (other than SWER)			-
16	6.6kV to 11kV (inclusive—other than SWER)			-
17	Low voltage (< 1kV)			-
18	Total circuit length (for supply)	-	-	-
19				
20	Dedicated street lighting circuit length (km)			-
21	Circuit in sensitive areas (conservation areas, iwi territory etc) (km)			
22				
23	Overhead circuit length by terrain (at year end)	(% of total Circuit length (km) overhead length)		
24	Urban			-
25	Rural			-
26	Remote only			-
27	Rugged only			-
28	Remote and rugged			-
29	Unallocated overhead lines			-
30	Total overhead length	-	-	-
31				
32		(% of total circuit length)		
33	Length of circuit within 10km of coastline or geothermal areas (where known)			-
34		(% of total Circuit length (km) overhead length)		
35	Overhead circuit requiring vegetation management			-

Schedule 9e Report on Network Demand

	Company Name <input style="width: 100%;" type="text"/> For Year Ended <input style="width: 100%;" type="text"/> Network / Sub-network Name <input style="width: 100%;" type="text"/>
SCHEDULE 9e: REPORT ON NETWORK DEMAND	
This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).	
sch ref	
8	9e(i): Consumer Connections
9	<i>Number of ICPs connected in year by consumer type</i>
10	<i>Consumer types defined by EDB*</i>
11	<input type="text"/>
12	<input type="text"/>
13	<input type="text"/>
14	<input type="text"/>
15	<input type="text"/>
16	<i>* include additional rows if needed</i>
17	Connections total
18	<input style="width: 100%;" type="text"/>
19	Distributed generation
20	Number of connections made in year
21	Capacity of distributed generation installed in year
22	9e(ii): System Demand
23	
24	
25	Maximum coincident system demand
26	GXP demand
27	<i>plus</i> Distributed generation output at HV and above
28	Maximum coincident system demand
29	<i>less</i> Net transfers to (from) other EDBs at HV and above
30	Demand on system for supply to consumers' connection points
31	Electricity volumes carried
32	Electricity supplied from GXPs
33	<i>less</i> Electricity exports to GXPs
34	<i>plus</i> Electricity supplied from distributed generation
35	<i>less</i> Net electricity supplied to (from) other EDBs
36	Electricity entering system for supply to consumers' connection points
37	<i>less</i> Total energy delivered to ICPs
38	Electricity losses (loss ratio)
39	
40	Load factor
41	9e(iii): Transformer Capacity
42	
43	Distribution transformer capacity (EDB owned)
44	Distribution transformer capacity (Non-EDB owned, estimated)
45	Total distribution transformer capacity
46	
47	Zone substation transformer capacity

Schedule 10 Report on Network Reliability

	<i>Company Name</i>	
	<i>For Year Ended</i>	
	<i>Network / Sub-network Name</i>	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

8	10(i): Interruptions		
9	Interruptions by class	Number of interruptions	
10	Class A (planned interruptions by Transpower)		
11	Class B (planned interruptions on the network)		
12	Class C (unplanned interruptions on the network)		
13	Class D (unplanned interruptions by Transpower)		
14	Class E (unplanned interruptions of EDB owned generation)		
15	Class F (unplanned interruptions of generation owned by others)		
16	Class G (unplanned interruptions caused by another disclosing entity)		
17	Class H (planned interruptions caused by another disclosing entity)		
18	Class I (interruptions caused by parties not included above)		
19	Total	--	
20			
21	Interruption restoration	≤3Hrs	>3hrs
22	Class C interruptions restored within		
23			
24	SAIFI and SAIDI by class	SAIFI	SAIDI
25	Class A (planned interruptions by Transpower)		
26	Class B (planned interruptions on the network)		
27	Class C (unplanned interruptions on the network)		
28	Class D (unplanned interruptions by Transpower)		
29	Class E (unplanned interruptions of EDB owned generation)		
30	Class F (unplanned interruptions of generation owned by others)		
31	Class G (unplanned interruptions caused by another disclosing entity)		
32	Class H (planned interruptions caused by another disclosing entity)		
33	Class I (interruptions caused by parties not included above)		
34	Total	--	--
35			
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI
37	Classes B & C (interruptions on the network)		
38			

42	10(ii): Class C Interruptions and Duration by Cause		
43			
44	Cause	SAIFI	SAIDI
45	Lightning		
46	Vegetation		
47	Adverse weather		
48	Adverse environment		
49	Third party interference		
50	Wildlife		
51	Human error		
52	Defective equipment		
53	Cause unknown		
54			
55	10(iii): Class B Interruptions and Duration by Main Equipment Involved		
56			
57	Main equipment involved	SAIFI	SAIDI
58	Subtransmission lines		
59	Subtransmission cables		
60	Subtransmission other		
61	Distribution lines (excluding LV)		
62	Distribution cables (excluding LV)		
63	Distribution other (excluding LV)		
64	10(iv): Class C Interruptions and Duration by Main Equipment Involved		
65			
66	Main equipment involved	SAIFI	SAIDI
67	Subtransmission lines		
68	Subtransmission cables		
69	Subtransmission other		
70	Distribution lines (excluding LV)		
71	Distribution cables (excluding LV)		
72	Distribution other (excluding LV)		
73	10(v): Fault Rate		
74	Main equipment involved	Number of Faults	Circuit length (km)
75	Subtransmission lines		
76			Fault rate (faults per 100km)

Schedule 11a Report on Forecast Capital Expenditure

		Company Name										
		AMP Planning Period										
		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
7												
8												
9	11a(i): Expenditure on Assets Forecast											
10	Consumer connection											
11	System growth											
12	Asset replacement and renewal											
13	Asset relocations											
14	Reliability, safety and environment:											
15	Quality of supply											
16	Legislative and regulatory											
17	Other reliability, safety and environment											
18	Total reliability, safety and environment											
19	Expenditure on network assets											
20	Expenditure on non-network assets											
21	Expenditure on assets											
22												
23	plus											
24	Cost of financing											
25	less											
26	Value of capital contributions											
27	plus											
28	Value of vested assets											
29	Capital expenditure forecast											
30	Assets commissioned											
31												
32												
33	Consumer connection											
34	System growth											
35	Asset replacement and renewal											
36	Asset relocations											
37	Reliability, safety and environment:											
38	Quality of supply											
39	Legislative and regulatory											
40	Other reliability, safety and environment											
41	Total reliability, safety and environment											
42	Expenditure on network assets											
43	Expenditure on non-network assets											
44	Expenditure on assets											
45												
46	Subcomponents of expenditure on assets (where known)											
47	Energy efficiency and demand side management, reduction of energy losses											
48	Overhead to underground conversion											
49	Research and development											

	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
135	11a(vii): Legislative and Regulatory					
136	<i>Project or programme*</i>					
137	[Description of material project or programme]					
138	[Description of material project or programme]					
139	[Description of material project or programme]					
140	[Description of material project or programme]					
141	[Description of material project or programme]					
142	[Description of material project or programme]					
143	[Description of material project or programme]					
144	<i>*Include additional rows if needed</i>					
145	All other projects or programmes - legislative and regulatory					
146	Legislative and regulatory expenditure					
147	Capital contributions funding legislative and regulatory					
148	less					
149	Legislative and regulatory less capital contributions					
150						
151	11a(viii): Other Reliability, Safety and Environment					
152	<i>Project or programme*</i>					
153	[Description of material project or programme]					
154	[Description of material project or programme]					
155	[Description of material project or programme]					
156	[Description of material project or programme]					
157	[Description of material project or programme]					
158	<i>*Include additional rows if needed</i>					
159	All other projects or programmes - other reliability, safety and environment					
160	Other reliability, safety and environment expenditure					
161	Capital contributions funding other reliability, safety and environment					
162	less					
163	Other reliability, safety and environment less capital contributions					
164						
165						
166	11a(ix): Non-Network Assets					
167	Routine expenditure					
168	<i>Project or programme*</i>					
169	[Description of material project or programme]					
170	[Description of material project or programme]					
171	[Description of material project or programme]					
172	[Description of material project or programme]					
173	[Description of material project or programme]					
174	<i>*Include additional rows if needed</i>					
175	All other projects or programmes - routine expenditure					
176	Routine expenditure					
177	Atypical expenditure					
178	<i>Project or programme*</i>					
179	[Description of material project or programme]					
180	[Description of material project or programme]					
181	[Description of material project or programme]					
182	[Description of material project or programme]					
183	[Description of material project or programme]					
184	<i>*Include additional rows if needed</i>					
185	All other projects or programmes - atypical expenditure					
186	Atypical expenditure					
187	Expenditure on non-network assets					
188						

Schedule 11b Report on Forecast Operational Expenditure

		Company Name AMP Planning Period										
sch ref		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
		SCHEDULE 11b: REPORT ON FORECAST OPERATIONAL EXPENDITURE										
This schedule requires a breakdown of forecast operational expenditure for the disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. EDBs must provide explanatory comment on the difference between constant price and nominal dollar operational expenditure forecasts in Schedule 14a (Mandatory Explanatory Notes). This information is not part of audited disclosure information.												
7												
8												
9	Operational Expenditure Forecast											
10	Service interruptions and emergencies											
11	Vegetation management											
12	Routine and corrective maintenance and inspection											
13	Asset replacement and renewal											
14	Network Opex											
15	System operations and network support											
16	Business support											
17	Non-network opex											
18	Operational expenditure											
19												
20												
21												
22												
23												
24												
25												
26	Network Opex											
27	System operations and network support											
28	Business support											
29	Non-network opex											
30	Operational expenditure											
31												
32												
33												
34												
35												
36												
37	Subcomponents of operational expenditure (where known)											
38	Energy efficiency and demand side management, reduction of energy losses											
39	Direct billing*											
40	Research and Development											
41	Insurance											
42												
43												
44												
45												
46	Network Opex											
47	System operations and network support											
48	Business support											
49	Non-network opex											
50	Operational expenditure											
51												
52												
53												
54												
55												
56												
57												
58												
59												
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61												
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Schedule 12a Report on Asset Condition

SCHEDULE 12a: REPORT ON ASSET CONDITION		Company Name AMP Planning Period						
This schedule requires a breakdown of asset condition by asset class as at the start of the forecast year. The data accuracy assessment relates to the percentage values disclosed in the asset condition columns. Also required is a forecast of the percentage of units to be replaced in the next 5 years. All information should be consistent with the information provided in the AMP and the expenditure on assets forecast in Schedule 12a. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.								
sch ref	Units	Asset condition at start of planning period (percentage of units by grade)					Data accuracy (1-4)	% of asset forecast to be replaced in next 5 years
		H1	H2	H3	H4	H5		
7	8							
9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26
27	28	29	30	31	32	33	34	35
	Concrete poles / steel structure							
	Wood poles							
	Other pole types							
	Subtransmission OH up to 66kV conductor							
	Subtransmission OH 110kV+ conductor							
	Subtransmission US up to 66kV (WPE)							
	Subtransmission US up to 66kV (Oil pressurised)							
	Subtransmission US up to 66kV (Gas pressurised)							
	Subtransmission US up to 66kV (PLC)							
	Subtransmission US 110kV+ (WPE)							
	Subtransmission US 110kV+ (Oil pressurised)							
	Subtransmission US 110kV+ (Gas pressurised)							
	Subtransmission US 110kV+ (PLC)							
	Subtransmission submarine cable							
	Zone substations up to 66kV							
	Zone substations 110kV+							
	22/3kV CB (Indoor)							
	22/3kV CB (Outdoor)							
	3kV Switch (Ground Mounted)							
	3kV Switch (Pole Mounted)							
	3kV PDU							
	50/66/110kV CB (Indoor)							
	50/66/110kV CB (Outdoor)							
	3.3/6.6/11/22kV CB (ground mounted)							
	3.3/6.6/11/22kV CB (pole mounted)							

		Asset condition at start of planning period (percentage of units by grade)										% of asset forecast to be replaced in next 5 years	
Line No	Asset Class	H1	H2	H3	H4	H5	Grade unknown	Data accuracy (1-4)	Units				
36	Zone Substation Transformer												
37	Distribution Line												
38	Distribution Line												
39	Distribution Line												
40	Distribution Line												
41	Distribution Line												
42	Distribution Line												
43	Distribution Line												
44	Distribution Line												
45	Distribution Line												
46	Distribution Line												
47	Distribution Line												
48	Distribution Line												
49	Distribution Line												
50	Distribution Line												
51	Distribution Line												
52	Distribution Line												
53	Distribution Line												
54	Distribution Line												
55	Distribution Line												
56	Distribution Line												
57	Distribution Line												
58	Distribution Line												
59	Distribution Line												
60	Distribution Line												
61	Distribution Line												
62	Distribution Line												
63	Distribution Line												
64	Distribution Line												

Schedule 12b Report on Forecast Capacity

<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Company Name AMP Planning Period </div>	
SCHEDULE 12b: REPORT ON FORECAST CAPACITY This schedule requires a breakdown of current and forecast capacity and utilisation for each zone substation and current distribution transformer capacity. The data provided should be consistent with the information provided in the AMP. Information provided in this table should relate to the operation of the network in its normal steady state configuration.	
sch ref	Explanation
7	12b(i): System Growth – Zone Substations
8	Existing Zone Substations
9	Zone Substation, 01
10	Zone Substation, 02
11	Zone Substation, 03
12	Zone Substation, 04
13	Zone Substation, 05
14	Zone Substation, 06
15	Zone Substation, 07
16	Zone Substation, 08
17	Zone Substation, 09
18	Zone Substation, 10
19	Zone Substation, 11
20	Zone Substation, 12
21	Zone Substation, 13
22	Zone Substation, 14
23	Zone Substation, 15
24	Zone Substation, 16
25	Zone Substation, 17
26	Zone Substation, 18
27	Zone Substation, 19
28	Zone Substation, 20
29	* Extend forecast capacity table as necessary to disclose all capacity by each zone substation

Schedule 12c Report on Forecast Network Demand

Company Name						
AMP Planning Period						
<p>SCHEDULE 12c: REPORT ON FORECAST NETWORK DEMAND</p> <p>This schedule requires a forecast of new connections (by consumer type), peak demand and energy volumes for the disclosure year and a 5 year planning period. The forecasts should be consistent with the supporting information set out in the AMP as well as the assumptions used in developing the expenditure forecasts in Schedule 11a and Schedule 11b and the capacity and utilisation forecasts in Schedule 12b.</p>						
sch.ref						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
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Schedule 12d Report on Forecast Interruptions and Duration

	<i>Company Name</i>					
	<i>AMP Planning Period</i>					
	<i>Network / Sub-network Name</i>					
<p>SCHEDULE 12d: REPORT FORECAST INTERRUPTIONS AND DURATION</p> <p>This schedule requires a forecast of SAIFI and SAIDI for disclosure and a 5 year planning period. The forecasts should be consistent with the supporting information set out in the AMP as well as the assumed impact of planned and unplanned SAIFI and SAIDI on the expenditures forecast provided in Schedule 11a and Schedule 11b.</p>						
<i>sch ref</i>	<i>Current Year CY</i>	<i>CY+1</i>	<i>CY+2</i>	<i>CY+3</i>	<i>CY+4</i>	<i>CY+5</i>
8						
9						
10						
11						
12						
13						
14						
15						

Schedule 13 Report on Asset Management Maturity

1. When required to complete the Report on Asset Management Maturity under clause 2.6.1, each EDB must-
 - 1.1 ensure that the person responsible for managing network assets (or a similar level individual) in the organisation takes responsibility for completing this report, including-
 - 1.1.1 Organising people within the organisation to answer the questions;
 - 1.1.2 Arranging for all information to be captured in the Report on Asset Management Maturity;
 - 1.1.3 Reporting to the organisation on the results of the assessment;
 - 1.1.4 Planning the assessment process, which may include-
 - (a) determining the form the assessment process is to take. In this context, the principal formats are generally taken to be interviews, facilitated groups/panels or a combination of the two;
 - (b) arranging for appropriate outsourced service providers and stakeholders to act as respondents during the assessment exercise;
 - (c) providing appropriate pre-assessment communication (and training where appropriate) to ensure that, as a minimum, the proposed respondents are aware of the process and the part within it that they are being asked to play;
 - (d) identifying which questions are to be asked of which respondents.
 - 1.2 specify in the Report on Asset Management Maturity the standard of asset management practice that the EDB has used as the reference standard.
 - 1.3 fill out the following columns in the Report on Asset Management Maturity set out below
 - 1.3.1 'User guidance': guidance (if required) on completing each question of the report.

This column can be used by the person responsible for completing the Report on Asset Management Maturity to provide guidance to the persons coordinating responses to each question.

- 1.3.2 'Evidence—Summary': the information/evidence used to support the assessed rating.

The cells in this column should be completed by persons coordinating responses to each question.

- 1.3.3 'Score': the appropriate maturity rating (this must be a whole number between 0 and 4).

To meet Report on Asset Management Maturity level 4 maturity, the EDB's processes must surpass the standards that must be complied with in an internationally accepted asset management specification. The Report on Asset Management Maturity questionnaire has been prepared to conform to the PAS 55 specification. However, a similar specification, if available, may be used for the purpose of disclosure.

2. When disclosing the Report on Asset Management Maturity in the AMP, an EDB must include at least the following columns-

- 2.1 'Question No';
- 2.2 'Function';
- 2.3 'Question';
- 2.4 'Score';
- 2.5 'Evidence—Summary';
- 2.6 'Why';
- 2.7 'Who';
- 2.8 'Record/documented Information'; and
- 2.9 a maturity level column which includes, for each row, the corresponding definition of the maturity level 'score' selected for each 'question'.

3. Guidance notes on completing the Report on Asset Management Maturity

- 3.1 *Part of the value of a formal asset management system is the definition and standardisation of terms. A common understanding of terms helps interested persons to understand the asset management concepts and processes that apply to the EDB. In particular, it helps the EDB's employees and suppliers to understand and improve asset management concepts and processes.*

- 3.2 *The report will not provide an effective assessment of the maturity of the EDB's asset management capability and processes unless the preparation of the report is supported by senior management of the EDB.*
- 3.3 *The level of effort required to complete the report should be consistent with a gap analysis exercise rather than the level typically involved with an audit for certification.*
- 3.4 *An audit involves a systematic, independent process for the collection and analysis of evidence to support a rating whereas the report is intended to be used by providing a reference to supporting evidence or an explanation of the self-assessment.*
- 3.5 *The level of documentation within an asset management system is expected to be consistent with factors such as the size of the company, complexity of processes and competence of personnel.*
- 3.6 *The definitions provided in the report for each maturity rating should provide sufficient information for an EDB to objectively identify the level currently being achieved by the organisation.*

[DRAFT] Electricity Distribution Information Disclosure (Aurora Energy Limited) Amendment Determination 2021

Company Name _____
 AMP Planning Period _____
 Asset Management Standard Applied _____

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY

This schedule requires information on the EDB's self-assessment of the maturity of its asset management practices .

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?				Widely used AM practice standards require an organisation to document, authorise and communicate its asset management policy (eg, as required in PAS 55 para 4.2 i). A key pre-requisite of any robust policy is that the organisation's top management must be seen to endorse and fully support it. Also vital to the effective implementation of the policy, is to tell the appropriate people of its content and their obligations under it. Where an organisation outsources some of its asset-related activities, then these people and their organisations must equally be made aware of the policy's content. Also, there may be other stakeholders, such as regulatory authorities and shareholders who should be made aware of it.	Top management. The management team that has overall responsibility for asset management.	The organisation's asset management policy, its organisational strategic plan, documents indicating how the asset management policy was based upon the needs of the organisation and evidence of communication.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?				In setting an organisation's asset management strategy, it is important that it is consistent with any other policies and strategies that the organisation has and has taken into account the requirements of relevant stakeholders. This question examines to what extent the asset management strategy is consistent with other organisational policies and strategies (eg, as required by PAS 55 para 4.3.1 b) and has taken account of stakeholder requirements as required by PAS 55 para 4.3.1 c). Generally, this will take into account the same policies, strategies and stakeholder requirements as covered in drafting the asset management policy but at a greater level of detail.	Top management. The organisation's strategic planning team. The management team that has overall responsibility for asset management.	The organisation's asset management strategy document and other related organisational policies and strategies. Other than the organisation's strategic plan, these could include those relating to health and safety, environmental, etc. Results of stakeholder consultation.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?				Good asset stewardship is the hallmark of an organisation compliant with widely used AM standards. A key component of this is the need to take account of the lifecycle of the assets, asset types and asset systems. (For example, this requirement is recognised in 4.3.1 d) of PAS 55). This question explores what an organisation has done to take lifecycle into account in its asset management strategy.	Top management. People in the organisation with expert knowledge of the assets, asset types, asset systems and their associated life-cycles. The management team that has overall responsibility for asset management. Those responsible for developing and adopting methods and processes used in asset management	The organisation's documented asset management strategy and supporting working documents.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?				The asset management strategy need to be translated into practical plan(s) so that all parties know how the objectives will be achieved. The development of plan(s) will need to identify the specific tasks and activities required to optimize costs, risks and performance of the assets and/or asset system(s), when they are to be carried out and the resources required.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers.	The organisation's asset management plan(s).

	Company Name
	AMP Planning Period
	Asset Management Standard Applied

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
3	Asset management policy	To what extent has an asset management policy been documented, authorised and communicated?	The organisation does not have a documented asset management policy.	The organisation has an asset management policy, but it has not been authorised by top management, or it is not influencing the management of the assets.	The organisation has an asset management policy, which has been authorised by top management, but it has had limited circulation. It may be in use to influence development of strategy and planning but its effect is limited.	The asset management policy is authorised by top management, is widely and effectively communicated to all relevant employees and stakeholders, and used to make these persons aware of their asset related obligations.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
10	Asset management strategy	What has the organisation done to ensure that its asset management strategy is consistent with other appropriate organisational policies and strategies, and the needs of stakeholders?	The organisation has not considered the need to ensure that its asset management strategy is appropriately aligned with the organisation's other organisational policies and strategies or with stakeholder requirements. OR The organisation does not have an asset management strategy.	The need to align the asset management strategy with other organisational policies and strategies as well as stakeholder requirements is understood and work has started to identify the linkages or to incorporate them in the drafting of asset management strategy.	Some of the linkages between the long-term asset management strategy and other organisational policies, strategies and stakeholder requirements are defined but the work is fairly well advanced but still incomplete.	All linkages are in place and evidence is available to demonstrate that, where appropriate, the organisation's asset management strategy is consistent with its other organisational policies and strategies. The organisation has also identified and considered the requirements of relevant stakeholders.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
11	Asset management strategy	In what way does the organisation's asset management strategy take account of the lifecycle of the assets, asset types and asset systems over which the organisation has stewardship?	The organisation has not considered the need to ensure that its asset management strategy is produced with due regard to the lifecycle of the assets, asset types or asset systems that it manages. OR The organisation does not have an asset management strategy.	The need is understood, and the organisation is drafting its asset management strategy to address the lifecycle of its assets, asset types and asset systems.	The long-term asset management strategy takes account of the lifecycle of some, but not all, of its assets, asset types and asset systems.	The asset management strategy takes account of the lifecycle of all of its assets, asset types and asset systems.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
26	Asset management plan(s)	How does the organisation establish and document its asset management plan(s) across the life cycle activities of its assets and asset systems?	The organisation does not have an identifiable asset management plan(s) covering asset systems and critical assets.	The organisation has asset management plan(s) but they are not aligned with the asset management strategy and objectives and do not take into consideration the full asset life cycle (including asset creation, acquisition, enhancement, utilisation, maintenance decommissioning and disposal).	The organisation is in the process of putting in place comprehensive, documented asset management plan(s) that cover all life cycle activities, clearly aligned to asset management objectives and the asset management strategy.	Asset management plan(s) are established, documented, implemented and maintained for asset systems and critical assets to achieve the asset management strategy and asset management objectives across all life cycle phases.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?				Plans will be ineffective unless they are communicated to all those, including contracted suppliers and those who undertake enabling function(s). The plan(s) need to be communicated in a way that is relevant to those who need to use them.	The management team with overall responsibility for the asset management system. Delivery functions and suppliers.	Distribution lists for plan(s). Documents derived from plan(s) which detail the receivers role in plan delivery. Evidence of communication.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?				The implementation of asset management plan(s) relies on (1) actions being clearly identified, (2) an owner allocated and (3) that owner having sufficient delegated responsibility and authority to carry out the work required. It also requires alignment of actions across the organisation. This question explores how well the plan(s) set out responsibility for delivery of asset plan actions.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team.	The organisation's asset management plan(s). Documentation defining roles and responsibilities of individuals and organisational departments.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)				It is essential that the plan(s) are realistic and can be implemented, which requires appropriate resources to be available and enabling mechanisms in place. This question explores how well this is achieved. The plan(s) not only need to consider the resources directly required and timescales, but also the enabling activities, including for example, training requirements, supply chain capability and procurement timescales.	The management team with overall responsibility for the asset management system. Operations, maintenance and engineering managers. If appropriate, the performance management team. Where appropriate the procurement team and service providers working on the organisation's asset-related activities.	The organisation's asset management plan(s). Documented processes and procedures for the delivery of the asset management plan.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?				Widely used AM practice standards require that an organisation has plan(s) to identify and respond to emergency situations. Emergency plan(s) should outline the actions to be taken to respond to specified emergency situations and ensure continuity of critical asset management activities including the communication to, and involvement of, external agencies. This question assesses if, and how well, these plan(s) triggered, implemented and resolved in the event of an incident. The plan(s) should be appropriate to the level of risk as determined by the organisation's risk assessment methodology. It is also a requirement that relevant personnel are competent and trained.	The manager with responsibility for developing emergency plan(s). The organisation's risk assessment team. People with designated duties within the plan(s) and procedure(s) for dealing with incidents and emergency situations.	The organisation's plan(s) and procedure(s) for dealing with emergencies. The organisation's risk assessments and risk registers.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
27	Asset management plan(s)	How has the organisation communicated its plan(s) to all relevant parties to a level of detail appropriate to the receiver's role in their delivery?	The organisation does not have plan(s) or their distribution is limited to the authors.	The plan(s) are communicated to some of those responsible for delivery of the plan(s). OR Communicated to those responsible for delivery is either irregular or ad-hoc.	The plan(s) are communicated to most of those responsible for delivery but there are weaknesses in identifying relevant parties resulting in incomplete or inappropriate communication. The organisation recognises improvement is needed as is working towards resolution.	The plan(s) are communicated to all relevant employees, stakeholders and contracted service providers to a level of detail appropriate to their participation or business interests in the delivery of the plan(s) and there is confirmation that they are being used effectively.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
29	Asset management plan(s)	How are designated responsibilities for delivery of asset plan actions documented?	The organisation has not documented responsibilities for delivery of asset plan actions.	Asset management plan(s) inconsistently document responsibilities for delivery of plan actions and activities and/or responsibilities and authorities for implementation inadequate and/or delegation level inadequate to ensure effective delivery and/or contain misalignments with organisational accountability.	Asset management plan(s) consistently document responsibilities for the delivery of actions but responsibility/authority levels are inappropriate/ inadequate, and/or there are misalignments within the organisation.	Asset management plan(s) consistently document responsibilities for the delivery actions and there is adequate detail to enable delivery of actions. Designated responsibility and authority for achievement of asset plan actions is appropriate.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
31	Asset management plan(s)	What has the organisation done to ensure that appropriate arrangements are made available for the efficient and cost effective implementation of the plan(s)? (Note this is about resources and enabling support)	The organisation has not considered the arrangements needed for the effective implementation of plan(s).	The organisation recognises the need to ensure appropriate arrangements are in place for implementation of asset management plan(s) and is in the process of determining an appropriate approach for achieving this.	The organisation has arrangements in place for the implementation of asset management plan(s) but the arrangements are not yet adequately efficient and/or effective. The organisation is working to resolve existing weaknesses.	The organisation's arrangements fully cover all the requirements for the efficient and cost effective implementation of asset management plan(s) and realistically address the resources and timescales required, and any changes needed to functional policies, standards, processes and the asset management information system.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
33	Contingency planning	What plan(s) and procedure(s) does the organisation have for identifying and responding to incidents and emergency situations and ensuring continuity of critical asset management activities?	The organisation has not considered the need to establish plan(s) and procedure(s) to identify and respond to incidents and emergency situations.	The organisation has some ad-hoc arrangements to deal with incidents and emergency situations, but these have been developed on a reactive basis in response to specific events that have occurred in the past.	Most credible incidents and emergency situations are identified. Either appropriate plan(s) and procedure(s) are incomplete for critical activities or they are inadequate. Training/ external alignment may be incomplete.	Appropriate emergency plan(s) and procedure(s) are in place to respond to credible incidents and manage continuity of critical asset management activities consistent with policies and asset management objectives. Training and external agency alignment is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?				In order to ensure that the organisation's assets and asset systems deliver the requirements of the asset management policy, strategy and objectives responsibilities need to be allocated to appropriate people who have the necessary authority to fulfil their responsibilities. (This question, relates to the organisation's assets eg, para b), s 4.4.1 of PAS 55, making it therefore distinct from the requirement contained in para a), s 4.4.1 of PAS 55).	Top management. People with management responsibility for the delivery of asset management policy, strategy, objectives and plan(s). People working on asset-related activities.	Evidence that managers with responsibility for the delivery of asset management policy, strategy, objectives and plan(s) have been appointed and have assumed their responsibilities. Evidence may include the organisation's documents relating to its asset management system, organisational charts, job descriptions of post-holders, annual targets/objectives and personal development plan(s) of post-holders as appropriate.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?				Optimal asset management requires top management to ensure sufficient resources are available. In this context the term 'resources' includes manpower, materials, funding and service provider support.	Top management. The management team that has overall responsibility for asset management. Risk management team. The organisation's managers involved in day-to-day supervision of asset-related activities, such as frontline managers, engineers, foremen and chargehands as appropriate.	Evidence demonstrating that asset management plan(s) and/or the process(es) for asset management plan implementation consider the provision of adequate resources in both the short and long term. Resources include funding, materials, equipment, services provided by third parties and personnel (internal and service providers) with appropriate skills competencies and knowledge.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?				Widely used AM practice standards require an organisation to communicate the importance of meeting its asset management requirements such that personnel fully understand, take ownership of, and are fully engaged in the delivery of the asset management requirements (eg, PAS 55 s 4.4.1 g).	Top management. The management team that has overall responsibility for asset management. People involved in the delivery of the asset management requirements.	Evidence of such activities as road shows, written bulletins, workshops, team talks and management walkabouts would assist an organisation to demonstrate it is meeting this requirement of PAS 55.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?				Where an organisation chooses to outsource some of its asset management activities, the organisation must ensure that these outsourced process(es) are under appropriate control to ensure that all the requirements of widely used AM standards (eg, PAS 55) are in place, and the asset management policy, strategy objectives and plan(s) are delivered. This includes ensuring capabilities and resources across a time span aligned to life cycle management. The organisation must put arrangements in place to control the outsourced activities, whether it be to external providers or to other in-house departments. This question explores what the organisation does in this regard.	Top management. The management team that has overall responsibility for asset management. The manager(s) responsible for the monitoring and management of the outsourced activities. People involved with the procurement of outsourced activities. The people within the organisations that are performing the outsourced activities. The people impacted by the outsourced activity.	The organisation's arrangements that detail the compliance required of the outsourced activities. For example, this this could form part of a contract or service level agreement between the organisation and the suppliers of its outsourced activities. Evidence that the organisation has demonstrated to itself that it has assurance of compliance of outsourced activities.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
37	Structure, authority and responsibilities	What has the organisation done to appoint member(s) of its management team to be responsible for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s)?	Top management has not considered the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management understands the need to appoint a person or persons to ensure that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s).	Top management has appointed an appropriate person to ensure the assets deliver the requirements of the asset management strategy, objectives and plan(s) but their areas of responsibility are not fully defined and/or they have insufficient delegated authority to fully execute their responsibilities.	The appointed person or persons have full responsibility for ensuring that the organisation's assets deliver the requirements of the asset management strategy, objectives and plan(s). They have been given the necessary authority to achieve this.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
40	Structure, authority and responsibilities	What evidence can the organisation's top management provide to demonstrate that sufficient resources are available for asset management?	The organisation's top management has not considered the resources required to deliver asset management.	The organisation's top management understands the need for sufficient resources but there are no effective mechanisms in place to ensure this is the case.	A process exists for determining what resources are required for its asset management activities and in most cases these are available but in some instances resources remain insufficient.	An effective process exists for determining the resources needed for asset management and sufficient resources are available. It can be demonstrated that resources are matched to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
42	Structure, authority and responsibilities	To what degree does the organisation's top management communicate the importance of meeting its asset management requirements?	The organisation's top management has not considered the need to communicate the importance of meeting asset management requirements.	The organisation's top management understands the need to communicate the importance of meeting its asset management requirements but does not do so.	Top management communicates the importance of meeting its asset management requirements but only to parts of the organisation.	Top management communicates the importance of meeting its asset management requirements to all relevant parts of the organisation.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
45	Outsourcing of asset management activities	Where the organisation has outsourced some of its asset management activities, how has it ensured that appropriate controls are in place to ensure the compliant delivery of its organisational strategic plan, and its asset management policy and strategy?	The organisation has not considered the need to put controls in place.	The organisation controls its outsourced activities on an ad-hoc basis, with little regard for ensuring for the compliant delivery of the organisational strategic plan and/or its asset management policy and strategy.	Controls systematically considered but currently only provide for the compliant delivery of some, but not all, aspects of the organisational strategic plan and/or its asset management policy and strategy. Gaps exist.	Evidence exists to demonstrate that outsourced activities are appropriately controlled to provide for the compliant delivery of the organisational strategic plan, asset management policy and strategy, and that these controls are integrated into the asset management system	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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<div style="text-align: right;"> Company Name <input type="text"/> AMP Planning Period <input type="text"/> Asset Management Standard Applied <input type="text"/> </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?				There is a need for an organisation to demonstrate that it has considered what resources are required to develop and implement its asset management system. There is also a need for the organisation to demonstrate that it has assessed what development plan(s) are required to provide its human resources with the skills and competencies to develop and implement its asset management systems. The timescales over which the plan(s) are relevant should be commensurate with the planning horizons within the asset management strategy considers e.g. if the asset management strategy considers 5, 10 and 15 year time scales then the human resources development plan(s) should align with these. Resources include both 'in house' and external resources who undertake asset management activities.	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of analysis of future work load plan(s) in terms of human resources. Document(s) containing analysis of the organisation's own direct resources and contractors resource capability over suitable timescales. Evidence, such as minutes of meetings, that suitable management forums are monitoring human resource development plan(s). Training plan(s), personal development plan(s), contract and service level agreements.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?				Widely used AM standards require that organisations to undertake a systematic identification of the asset management awareness and competencies required at each level and function within the organisation. Once identified the training required to provide the necessary competencies should be planned for delivery in a timely and systematic way. Any training provided must be recorded and maintained in a suitable format. Where an organisation has contracted service providers in place then it should have a means to demonstrate that this requirement is being met for their employees. (eg, PAS 55 refers to frameworks suitable for identifying competency requirements).	Senior management responsible for agreement of plan(s). Managers responsible for developing asset management strategy and plan(s). Managers with responsibility for development and recruitment of staff (including HR functions). Staff responsible for training. Procurement officers. Contracted service providers.	Evidence of an established and applied competency requirements assessment process and plan(s) in place to deliver the required training. Evidence that the training programme is part of a wider, co-ordinated asset management activities training and competency programme. Evidence that training activities are recorded and that records are readily available (for both direct and contracted service provider staff) e.g. via organisation wide information system or local records database.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?				A critical success factor for the effective development and implementation of an asset management system is the competence of persons undertaking these activities. organisations should have effective means in place for ensuring the competence of employees to carry out their designated asset management function(s). Where an organisation has contracted service providers undertaking elements of its asset management system then the organisation shall assure itself that the outsourced service provider also has suitable arrangements in place to manage the competencies of its employees. The organisation should ensure that the individual and corporate competencies it requires are in place and actively monitor, develop and maintain an appropriate balance of these competencies.	Managers, supervisors, persons responsible for developing training programmes. Staff responsible for procurement and service agreements. HR staff and those responsible for recruitment.	Evidence of a competency assessment framework that aligns with established frameworks such as the asset management Competencies Requirements Framework (Version 2.0); National Occupational Standards for Management and Leadership; UK Standard for Professional Engineering Competence, Engineering Council, 2005.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
48	Training, awareness and competence	How does the organisation develop plan(s) for the human resources required to undertake asset management activities - including the development and delivery of asset management strategy, process(es), objectives and plan(s)?	The organisation has not recognised the need for assessing human resources requirements to develop and implement its asset management system.	The organisation has recognised the need to assess its human resources requirements and to develop a plan(s). There is limited recognition of the need to align these with the development and implementation of its asset management system.	The organisation has developed a strategic approach to aligning competencies and human resources to the asset management system including the asset management plan but the work is incomplete or has not been consistently implemented.	The organisation can demonstrate that plan(s) are in place and effective in matching competencies and capabilities to the asset management system including the plan for both internal and contracted activities. Plans are reviewed integral to asset management system process(es).	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
49	Training, awareness and competence	How does the organisation identify competency requirements and then plan, provide and record the training necessary to achieve the competencies?	The organisation does not have any means in place to identify competency requirements.	The organisation has recognised the need to identify competency requirements and then plan, provide and record the training necessary to achieve the competencies.	The organisation is the process of identifying competency requirements aligned to the asset management plan(s) and then plan, provide and record appropriate training. It is incomplete or inconsistently applied.	Competency requirements are in place and aligned with asset management plan(s). Plans are in place and effective in providing the training necessary to achieve the competencies. A structured means of recording the competencies achieved is in place.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
50	Training, awareness and competence	How does the organization ensure that persons under its direct control undertaking asset management related activities have an appropriate level of competence in terms of education, training or experience?	The organization has not recognised the need to assess the competence of person(s) undertaking asset management related activities.	Competency of staff undertaking asset management related activities is not managed or assessed in a structured way, other than formal requirements for legal compliance and safety management.	The organization is in the process of putting in place a means for assessing the competence of person(s) involved in asset management activities including contractors. There are gaps and inconsistencies.	Competency requirements are identified and assessed for all persons carrying out asset management related activities - internal and contracted. Requirements are reviewed and staff reassessed at appropriate intervals aligned to asset management requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?				Widely used AM practice standards require that pertinent asset management information is effectively communicated to and from employees and other stakeholders including contracted service providers. Pertinent information refers to information required in order to effectively and efficiently comply with and deliver asset management strategy, plan(s) and objectives. This will include for example the communication of the asset management policy, asset performance information, and planning information as appropriate to contractors.	Top management and senior management representative(s), employee's representative(s), employee's trade union representative(s); contracted service provider management and employee representative(s); representative(s) from the organisation's Health, Safety and Environmental team. Key stakeholder representative(s).	Asset management policy statement prominently displayed on notice boards, intranet and internet; use of organisation's website for displaying asset performance data; evidence of formal briefings to employees, stakeholders and contracted service providers; evidence of inclusion of asset management issues in team meetings and contracted service provider contract meetings; newsletters, etc.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?				Widely used AM practice standards require an organisation maintain up to date documentation that ensures that its asset management systems (ie, the systems the organisation has in place to meet the standards) can be understood, communicated and operated. (eg, s 4.5 of PAS 55 requires the maintenance of up to date documentation of the asset management system requirements specified throughout s 4 of PAS 55).	The management team that has overall responsibility for asset management. Managers engaged in asset management activities.	The documented information describing the main elements of the asset management system (process(es)) and their interaction.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?				Effective asset management requires appropriate information to be available. Widely used AM standards therefore require the organisation to identify the asset management information it requires in order to support its asset management system. Some of the information required may be held by suppliers. The maintenance and development of asset management information systems is a poorly understood specialist activity that is akin to IT management but different from IT management. This group of questions provides some indications as to whether the capability is available and applied. Note: To be effective, an asset information management system requires the mobilisation of technology, people and process(es) that create, secure, make available and destroy the information required to support the asset management system.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Operations, maintenance and engineering managers	Details of the process the organisation has employed to determine what its asset information system should contain in order to support its asset management system. Evidence that this has been effectively implemented.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?				The response to the questions is progressive. A higher scale cannot be awarded without achieving the requirements of the lower scale. This question explores how the organisation ensures that information management meets widely used AM practice requirements (eg, s 4.4.6 (a), (c) and (d) of PAS 55).	The management team that has overall responsibility for asset management. Users of the organisational information systems.	The asset management information system, together with the policies, procedure(s), improvement initiatives and audits regarding information controls.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
53	Communication, participation and consultation	How does the organisation ensure that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?	The organisation has not recognised the need to formally communicate any asset management information.	There is evidence that the pertinent asset management information to be shared along with those to share it with is being determined.	The organisation has determined pertinent information and relevant parties. Some effective two way communication is in place but as yet not all relevant parties are clear on their roles and responsibilities with respect to asset management information.	Two way communication is in place between all relevant parties, ensuring that information is effectively communicated to match the requirements of asset management strategy, plan(s) and process(es). Pertinent asset information requirements are regularly reviewed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
59	Asset Management System documentation	What documentation has the organisation established to describe the main elements of its asset management system and interactions between them?	The organisation has not established documentation that describes the main elements of the asset management system.	The organisation is aware of the need to put documentation in place and is in the process of determining how to document the main elements of its asset management system.	The organisation in the process of documenting its asset management system and has documentation in place that describes some, but not all, of the main elements of its asset management system and their interaction.	The organisation has established documentation that comprehensively describes all the main elements of its asset management system and the interactions between them. The documentation is kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
62	Information management	What has the organisation done to determine what its asset management information system(s) should contain in order to support its asset management system?	The organisation has not considered what asset management information is required.	The organisation is aware of the need to determine in a structured manner what its asset information system should contain in order to support its asset management system and is in the process of deciding how to do this.	The organisation has developed a structured process to determine what its asset information system should contain in order to support its asset management system and has commenced implementation of the process.	The organisation has determined what its asset information system should contain in order to support its asset management system. The requirements relate to the whole life cycle and cover information originating from both internal and external sources.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
63	Information management	How does the organisation maintain its asset management information system(s) and ensure that the data held within it (them) is of the requisite quality and accuracy and is consistent?	There are no formal controls in place or controls are extremely limited in scope and/or effectiveness.	The organisation is aware of the need for effective controls and is in the process of developing an appropriate control process(es).	The organisation has developed a controls that will ensure the data held is of the requisite quality and accuracy and is consistent and is in the process of implementing them.	The organisation has effective controls in place that ensure the data held is of the requisite quality and accuracy and is consistent. The controls are regularly reviewed and improved where necessary.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?				Widely used AM standards need not be prescriptive about the form of the asset management information system, but simply require that the asset management information system is appropriate to the organisations needs, can be effectively used and can supply information which is consistent and of the requisite quality and accuracy.	The organisation's strategic planning team. The management team that has overall responsibility for asset management. Information management team. Users of the organisational information systems.	The documented process the organisation employs to ensure its asset management information system aligns with its asset management requirements. Minutes of information systems review meetings involving users.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?				Risk management is an important foundation for proactive asset management. Its overall purpose is to understand the cause, effect and likelihood of adverse events occurring, to optimally manage such risks to an acceptable level, and to provide an audit trail for the management of risks. Widely used standards require the organisation to have process(es) and/or procedure(s) in place that set out how the organisation identifies and assesses asset and asset management related risks. The risks have to be considered across the four phases of the asset lifecycle (eg, para 4.3.3 of PAS 55).	The top management team in conjunction with the organisation's senior risk management representatives. There may also be input from the organisation's Safety, Health and Environment team. Staff who carry out risk identification and assessment.	The organisation's risk management framework and/or evidence of specific process(es) and/ or procedure(s) that deal with risk control mechanisms. Evidence that the process(es) and/or procedure(s) are implemented across the business and maintained. Evidence of agendas and minutes from risk management meetings. Evidence of feedback in to process(es) and/or procedure(s) as a result of incident investigation(s). Risk registers and assessments.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?				Widely used AM standards require that the output from risk assessments are considered and that adequate resource (including staff) and training is identified to match the requirements. It is a further requirement that the effects of the control measures are considered, as there may be implications in resources and training required to achieve other objectives.	Staff responsible for risk assessment and those responsible for developing and approving resource and training plan(s). There may also be input from the organisation's Safety, Health and Environment team.	The organisations risk management framework. The organisation's resourcing plan(s) and training and competency plan(s). The organisation should be able to demonstrate appropriate linkages between the content of resource plan(s) and training and competency plan(s) to the risk assessments and risk control measures that have been developed.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?				In order for an organisation to comply with its legal, regulatory, statutory and other asset management requirements, the organisation first needs to ensure that it knows what they are (eg, PAS 55 specifies this in s 4.4.8). It is necessary to have systematic and auditable mechanisms in place to identify new and changing requirements. Widely used AM standards also require that requirements are incorporated into the asset management system (e.g. procedure(s) and process(es))	Top management. The organisations regulatory team. The organisation's legal team or advisors. The management team with overall responsibility for the asset management system. The organisation's health and safety team or advisors. The organisation's policy making team.	The organisational processes and procedures for ensuring information of this type is identified, made accessible to those requiring the information and is incorporated into asset management strategy and objectives

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Company Name

AMP Planning Period

Asset Management Standard Applied

SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)

Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
64	Information management	How has the organisation's ensured its asset management information system is relevant to its needs?	The organisation has not considered the need to determine the relevance of its management information system. At present there are major gaps between what the information system provides and the organisations needs.	The organisation understands the need to ensure its asset management information system is relevant to its needs and is determining an appropriate means by which it will achieve this. At present there are significant gaps between what the information system provides and the organisations needs.	The organisation has developed and is implementing a process to ensure its asset management information system is relevant to its needs. Gaps between what the information system provides and the organisations needs have been identified and action is being taken to close them.	The organisation's asset management information system aligns with its asset management requirements. Users can confirm that it is relevant to their needs.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
69	Risk management process(es)	How has the organisation documented process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle?	The organisation has not considered the need to document process(es) and/or procedure(s) for the identification and assessment of asset and asset management related risks throughout the asset life cycle.	The organisation is aware of the need to document the management of asset related risk across the asset lifecycle. The organisation has plan(s) to formally document all relevant process(es) and procedure(s) or has already commenced this activity.	The organisation is in the process of documenting the identification and assessment of asset related risk across the asset lifecycle but it is incomplete or there are inconsistencies between approaches and a lack of integration.	Identification and assessment of asset related risk across the asset lifecycle is fully documented. The organisation can demonstrate that appropriate documented mechanisms are integrated across life cycle phases and are being consistently applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
79	Use and maintenance of asset risk information	How does the organisation ensure that the results of risk assessments provide input into the identification of adequate resources and training and competency needs?	The organisation has not considered the need to conduct risk assessments.	The organisation is aware of the need to consider the results of risk assessments and effects of risk control measures to provide input into reviews of resources, training and competency needs. Current input is typically ad-hoc and reactive.	The organisation is in the process ensuring that outputs of risk assessment are included in developing requirements for resources and training. The implementation is incomplete and there are gaps and inconsistencies.	Outputs from risk assessments are consistently and systematically used as inputs to develop resources, training and competency requirements. Examples and evidence is available.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
82	Legal and other requirements	What procedure does the organisation have to identify and provide access to its legal, regulatory, statutory and other asset management requirements, and how is requirements incorporated into the asset management system?	The organisation has not considered the need to identify its legal, regulatory, statutory and other asset management requirements.	The organisation identifies some its legal, regulatory, statutory and other asset management requirements, but this is done in an ad-hoc manner in the absence of a procedure.	The organisation has procedure(s) to identify its legal, regulatory, statutory and other asset management requirements, but the information is not kept up to date, inadequate or inconsistently managed.	Evidence exists to demonstrate that the organisation's legal, regulatory, statutory and other asset management requirements are identified and kept up to date. Systematic mechanisms for identifying relevant legal and statutory requirements.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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<div style="text-align: right;"> Company Name: <input type="text"/> AMP Planning Period: <input type="text"/> Asset Management Standard Applied: <input type="text"/> </div>								
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)								
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?				Life cycle activities are about the implementation of asset management plan(s) i.e. they are the "doing" phase. They need to be done effectively and well in order for asset management to have any practical meaning. As a consequence, widely used standards (eg, PAS 55 s 4.5.1) require organisations to have in place appropriate process(es) and procedure(s) for the implementation of asset management plan(s) and control of lifecycle activities. This question explores those aspects relevant to asset creation.	Asset managers, design staff, construction staff and project managers from other impacted areas of the business, e.g. Procurement	Documented process(es) and procedure(s) which are relevant to demonstrating the effective management and control of life cycle activities during asset creation, acquisition, enhancement including design, modification, procurement, construction and commissioning.
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and performance?				Having documented process(es) which ensure the asset management plan(s) are implemented in accordance with any specified conditions, in a manner consistent with the asset management policy, strategy and objectives and in such a way that cost, risk and asset system performance are appropriately controlled is critical. They are an essential part of turning intention into action (eg, as required by PAS 55 s 4.5.1).	Asset managers, operations managers, maintenance managers and project managers from other impacted areas of the business	Documented procedure for review. Documented procedure for audit of process delivery. Records of previous audits, improvement actions and documented confirmation that actions have been carried out.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?				Widely used AM standards require that organisations establish implement and maintain procedure(s) to monitor and measure the performance and/or condition of assets and asset systems. They further set out requirements in some detail for reactive and proactive monitoring, and leading/lagging performance indicators together with the monitoring or results to provide input to corrective actions and continual improvement. There is an expectation that performance and condition monitoring will provide input to improving asset management strategy, objectives and plan(s).	A broad cross-section of the people involved in the organisation's asset-related activities from data input to decision-makers, i.e. an end-to-end assessment. This should include contactors and other relevant third parties as appropriate.	Functional policy and/or strategy documents for performance or condition monitoring and measurement. The organisation's performance monitoring frameworks, balanced scorecards etc. Evidence of the reviews of any appropriate performance indicators and the action lists resulting from these reviews. Reports and trend analysis using performance and condition information. Evidence of the use of performance and condition information shaping improvements and supporting asset management strategy, objectives and plan(s).
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformance is clear, unambiguous, understood and communicated?				Widely used AM standards require that the organisation establishes implements and maintains process(es) for the handling and investigation of failures incidents and non-conformities for assets and sets down a number of expectations. Specifically this question examines the requirement to define clearly responsibilities and authorities for these activities, and communicate these unambiguously to relevant people including external stakeholders if appropriate.	The organisation's safety and environment management team. The team with overall responsibility for the management of the assets. People who have appointed roles within the asset-related investigation procedure, from those who carry out the investigations to senior management who review the recommendations. Operational controllers responsible for managing the asset base under fault conditions and maintaining services to consumers. Contractors and other third parties as appropriate.	Process(es) and procedure(s) for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformance. Documentation of assigned responsibilities and authority to employees. Job Descriptions, Audit reports. Common communication systems i.e. all Job Descriptions on Internet etc.

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<div style="text-align: right; margin-bottom: 5px;"> Company Name <input style="width: 150px; height: 15px;" type="text"/> AMP Planning Period <input style="width: 150px; height: 15px;" type="text"/> Asset Management Standard Applied <input style="width: 150px; height: 15px;" type="text"/> </div> SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
88	Life Cycle Activities	How does the organisation establish implement and maintain process(es) for the implementation of its asset management plan(s) and control of activities across the creation, acquisition or enhancement of assets. This includes design, modification, procurement, construction and commissioning activities?	The organisation does not have process(es) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning but currently do not have these in place (note: procedure(s) may exist but they are inconsistent/incomplete).	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning. Gaps and inconsistencies are being addressed.	Effective process(es) and procedure(s) are in place to manage and control the implementation of asset management plan(s) during activities related to asset creation including design, modification, procurement, construction and commissioning.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
91	Life Cycle Activities	How does the organisation ensure that process(es) and/or procedure(s) for the implementation of asset management plan(s) and control of activities during maintenance (and inspection) of assets are sufficient to ensure activities are carried out under specified conditions, are consistent with asset management strategy and control cost, risk and performance?	The organisation does not have process(es)/procedure(s) in place to control or manage the implementation of asset management plan(s) during this life cycle phase.	The organisation is aware of the need to have process(es) and procedure(s) in place to manage and control the implementation of asset management plan(s) during this life cycle phase but currently do not have these in place and/or there is no mechanism for confirming they are effective and where needed modifying them.	The organisation is in the process of putting in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process for confirming the process(es)/procedure(s) are effective and if necessary carrying out modifications.	The organisation has in place process(es) and procedure(s) to manage and control the implementation of asset management plan(s) during this life cycle phase. They include a process, which is itself regularly reviewed to ensure it is effective, for confirming the process(es)/ procedure(s) are effective and if necessary carrying out modifications.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
95	Performance and condition monitoring	How does the organisation measure the performance and condition of its assets?	The organisation has not considered how to monitor the performance and condition of its assets.	The organisation recognises the need for monitoring asset performance but has not developed a coherent approach. Measures are incomplete, predominantly reactive and lagging. There is no linkage to asset management objectives.	The organisation is developing coherent asset performance monitoring linked to asset management objectives. Reactive and proactive measures are in place. Use is being made of leading indicators and analysis. Gaps and inconsistencies remain.	Consistent asset performance monitoring linked to asset management objectives is in place and universally used including reactive and proactive measures. Data quality management and review process are appropriate. Evidence of leading indicators and analysis.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
99	Investigation of asset-related failures, incidents and nonconformities	How does the organisation ensure responsibility and the authority for the handling, investigation and mitigation of asset-related failures, incidents and emergency situations and non conformances is clear, unambiguous, understood and communicated?	The organisation has not considered the need to define the appropriate responsibilities and the authorities.	The organisation understands the requirements and is in the process of determining how to define them.	The organisation are in the process of defining the responsibilities and authorities with evidence. Alternatively there are some gaps or inconsistencies in the identified responsibilities/authorities.	The organisation have defined the appropriate responsibilities and authorities and evidence is available to show that these are applied across the business and kept up to date.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

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<div style="text-align: right;"> Company Name <input type="text"/> AMP Planning Period <input type="text"/> Asset Management Standard Applied <input type="text"/> </div>									
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)									
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/document Information	
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?				This question seeks to explore what the organisation has done to comply with the standard practice AM audit requirements (eg, the associated requirements of PAS 55 s 4.6.4 and its linkages to s 4.7).	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit teams, together with key staff responsible for asset management. For example, Asset Management Director, Engineering Director. People with responsibility for carrying out risk assessments	The organisation's asset-related audit procedure(s). The organisation's methodology(s) by which it determined the scope and frequency of the audits and the criteria by which it identified the appropriate audit personnel. Audit schedules, reports etc. Evidence of the procedure(s) by which the audit results are presented, together with any subsequent communications. The risk assessment schedule or risk registers.	
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?				Having investigated asset related failures, incidents and non-conformances, and taken action to mitigate their consequences, an organisation is required to implement preventative and corrective actions to address root causes. Incident and failure investigations are only useful if appropriate actions are taken as a result to assess changes to a businesses risk profile and ensure that appropriate arrangements are in place should a recurrence of the incident happen. Widely used AM standards also require that necessary changes arising from preventive or corrective action are made to the asset management system.	The management team responsible for its asset management procedure(s). The team with overall responsibility for the management of the assets. Audit and incident investigation teams. Staff responsible for planning and managing corrective and preventive actions.	Analysis records, meeting notes and minutes, modification records. Asset management plan(s), investigation reports, audit reports, improvement programmes and projects. Recorded changes to asset management procedure(s) and process(es). Condition and performance reviews. Maintenance reviews	
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?				Widely used AM standards have requirements to establish, implement and maintain process(es)/procedure(s) for identifying, assessing, prioritising and implementing actions to achieve continual improvement. Specifically there is a requirement to demonstrate continual improvement in optimisation of cost risk and performance/condition of assets across the life cycle. This question explores an organisation's capabilities in this area—looking for systematic improvement mechanisms rather than reviews and audit (which are separately examined).	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. Managers responsible for policy development and implementation.	Records showing systematic exploration of improvement. Evidence of new techniques being explored and implemented. Changes in procedure(s) and process(es) reflecting improved use of optimisation tools/techniques and available information. Evidence of working parties and research.	
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?				One important aspect of continual improvement is where an organisation looks beyond its existing boundaries and knowledge base to look at what 'new things are on the market'. These new things can include equipment, process(es), tools, etc. An organisation which does this (eg, by the PAS 55 s 4.6 standards) will be able to demonstrate that it continually seeks to expand its knowledge of all things affecting its asset management approach and capabilities. The organisation will be able to demonstrate that it identifies any such opportunities to improve, evaluates them for suitability to its own organisation and implements them as appropriate. This question explores an organisation's approach to this activity.	The top management of the organisation. The manager/team responsible for managing the organisation's asset management system, including its continual improvement. People who monitor the various items that require monitoring for 'change'. People that implement changes to the organisation's policy, strategy, etc. People within an organisation with responsibility for investigating, evaluating, recommending and implementing new tools and techniques, etc.	Research and development projects and records, benchmarking and participation knowledge exchange professional forums. Evidence of correspondence relating to knowledge acquisition. Examples of change implementation and evaluation of new tools, and techniques linked to asset management strategy and objectives.	

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Company Name <input type="text"/> AMP Planning Period <input type="text"/> Asset Management Standard Applied <input type="text"/>							
SCHEDULE 13: REPORT ON ASSET MANAGEMENT MATURITY (cont)							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
105	Audit	What has the organisation done to establish procedure(s) for the audit of its asset management system (process(es))?	The organisation has not recognised the need to establish procedure(s) for the audit of its asset management system.	The organisation understands the need for audit procedure(s) and is determining the appropriate scope, frequency and methodology(s).	The organisation is establishing its audit procedure(s) but they do not yet cover all the appropriate asset-related activities.	The organisation can demonstrate that its audit procedure(s) cover all the appropriate asset-related activities and the associated reporting of audit results. Audits are to an appropriate level of detail and consistently managed.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
109	Corrective & Preventative action	How does the organisation instigate appropriate corrective and/or preventive actions to eliminate or prevent the causes of identified poor performance and non conformance?	The organisation does not recognise the need to have systematic approaches to instigating corrective or preventive actions.	The organisation recognises the need to have systematic approaches to instigating corrective or preventive actions. There is ad-hoc implementation for corrective actions to address failures of assets but not the asset management system.	The need is recognized for systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit. It is only partially or inconsistently in place.	Mechanisms are consistently in place and effective for the systematic instigation of preventive and corrective actions to address root causes of non compliance or incidents identified by investigations, compliance evaluation or audit.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
113	Continual Improvement	How does the organisation achieve continual improvement in the optimal combination of costs, asset related risks and the performance and condition of assets and asset systems across the whole life cycle?	The organisation does not consider continual improvement of these factors to be a requirement, or has not considered the issue.	A Continual Improvement ethos is recognised as beneficial, however it has just been started, and or covers partially the asset drivers.	Continuous improvement process(es) are set out and include consideration of cost risk, performance and condition for assets managed across the whole life cycle but it is not yet being systematically applied.	There is evidence to show that continuous improvement process(es) which include consideration of cost risk, performance and condition for assets managed across the whole life cycle are being systematically applied.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.
115	Continual Improvement	How does the organisation seek and acquire knowledge about new asset management related technology and practices, and evaluate their potential benefit to the organisation?	The organisation makes no attempt to seek knowledge about new asset management related technology or practices.	The organisation is inward looking, however it recognises that asset management is not sector specific and other sectors have developed good practice and new ideas that could apply. Ad-hoc approach.	The organisation has initiated asset management communication within sector to share and, or identify 'new' to sector asset management practices and seeks to evaluate them.	The organisation actively engages internally and externally with other asset management practitioners, professional bodies and relevant conferences. Actively investigates and evaluates new practices and evolves its asset management activities using appropriate developments.	The organisation's process(es) surpass the standard required to comply with requirements set out in a recognised standard. The assessor is advised to note in the Evidence section why this is the case and the evidence seen.

Schedule 14 Mandatory Explanatory Notes

1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and subclauses 2.5.1(1)(f), and 2.5.2(1)(e).
2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 11 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

Return on Investment (Schedule 2)

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 1: Explanatory comment on return on investment

[Insert text here]

Regulatory Profit (Schedule 3)

5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-
 - 5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3
 - 5.2 information on reclassified items in accordance with subclause 2.7.1(2).

Box 2: Explanatory comment on regulatory profit

[Insert text here]

Merger and acquisition expenses (3(iv) of Schedule 3)

6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-

- 6.1 information on reclassified items in accordance with subclause 2.7.1(2)
- 6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

Box 3: Explanatory comment on merger and acquisition expenditure

[Insert text here]

Value of the Regulatory Asset Base (Schedule 4)

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)

[Insert text here]

Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)

8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-
 - 8.1 Income not included in regulatory profit / (loss) before tax but taxable;
 - 8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;
 - 8.3 Income included in regulatory profit / (loss) before tax but not taxable;
 - 8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

Box 5: Regulatory tax allowance: permanent differences

[Insert text here]

Regulatory tax allowance: disclosure of temporary differences (5a(vi) of Schedule 5a)

9. In the box below, provide descriptions and workings of material items recorded in the asterisked category 'Tax effect of other temporary differences' in 5a(vi) of Schedule 5a.

Box 6: Tax effect of other temporary differences (current disclosure year)

[Insert text here]

Cost allocation (Schedule 5d)

10. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 7: Cost allocation

[Insert text here]

Asset allocation (Schedule 5e)

11. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 8: Commentary on asset allocation

[Insert text here]

Capital Expenditure for the Disclosure Year (Schedule 6a)

12. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-
- 12.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
 - 12.2 information on reclassified items in accordance with subclause 2.7.1(2),

Box 9: Explanation of capital expenditure for the disclosure year

[Insert text here]

Operational Expenditure for the Disclosure Year (Schedule 6b)

13. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-

13.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;

13.2 Information on reclassified items in accordance with subclause 2.7.1(2);

13.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

Box 10: Explanation of operational expenditure for the disclosure year

[Insert text here]

Variance between forecast and actual expenditure (Schedule 7)

14. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

Box 11: Explanatory comment on variance in actual to forecast expenditure

[Insert text here]

Information relating to revenues and quantities for the disclosure year

15. In the box below provide-

- 15.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and
- 15.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

Box 12: Explanatory comment relating to revenue for the disclosure year
[Insert text here]

Network Reliability for the Disclosure Year (Schedule 10)

16. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10.

Box 13: Commentary on network reliability for the disclosure year
[Insert text here]

Insurance cover

17. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-
 - 17.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;
 - 17.2 In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 14: Explanation of insurance cover
[Insert text here]

Amendments to previously disclosed information

18. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:
- 18.1 a description of each error; and
 - 18.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 15: Disclosure of amendment to previously disclosed information

[Insert text here]

Schedule 14a Mandatory Explanatory Notes on Forecast Information

1. This Schedule requires EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.6.

This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)

2. In the box below, comment on the difference between nominal and constant price capital expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11a.

Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts
[Insert text here]

Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)

3. In the box below, comment on the difference between nominal and constant price operational expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11b.

Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts
[Insert text here]

Schedule 15 Voluntary Explanatory Notes

4. This schedule enables EDBs to provide, should they wish to-
 - 4.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;
 - 4.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
5. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.
6. Provide additional explanatory comment in the box below.

Box 1: Voluntary explanatory comment on disclosed information

[Insert text below]

Schedule 16 Definitions of terms used in Schedules 1 to 15

1. This schedule provides definitions for terms used in Schedules 1 to 15 of this determination.
2. Where terms used in the schedules are defined in section 1.4 of this determination but are not defined below, they have the meanings set out in section 1.4 of this determination. Terms used in the schedules that are defined in the IM determination have the meanings set out in the IM determination. Otherwise, unless defined below, terms used in the schedules have meanings consistent with industry practice.

Term	Definition
% of asset forecast to be replaced in next 5 years	means the % of asset quantity forecast to be replaced in next 5 years consistent with the capital expenditure forecast
% variance	<p>means:</p> $q = \frac{a - b}{b} \times 100$ <p>where:</p> <p><i>a</i> = actual expenditure</p> <p><i>b</i> = forecast expenditure</p>
> 66 kV	means a circuit operating at a nominal voltage in excess of 66 kV
6.6kV to 11kV (inclusive—other than SWER)	means a circuit operating at a nominal voltage of at least 6.6kV and no more than 11kV that is not a SWER circuit
22 kV (other than SWER)	means a circuit operating at a nominal voltage of 22 kV that is not a SWER circuit
25th percentile estimate	means the 25th percentile estimate for the range of the mid-point post tax WACC or mid-point vanilla WACC determined by the Commission in accordance with clause 2.4.5 of the IM determination
33 kV	means a circuit operating at a nominal voltage of 33 kV
50 kV & 66 kV	means a circuit operating at a nominal voltage of 50 kV or 66 kV
75th percentile estimate	means the 75th percentile estimate for the range of the mid-point post tax WACC or mid-point vanilla WACC determined by the Commission in accordance with clause 2.4.5 of the IM determination

2013-15 NPV wash-up allowance	<p>means a cost specified in clause 3.1.3(1)(s) of the IM determination</p> <p><i>Guidance note: (refer to clause 1.4.1(98)-(109)) Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clause 3.1.3(1)(r) of the IM determination.</i></p>
Actual controllable opex	has the meaning given in the IM determination
Actual expenditure	<p>means, in relation to-</p> <p>(a) a disclosure year, expenditure for that disclosure year</p> <p>(b) regulatory period, expenditure for the disclosure years from the start of the regulatory period to the current disclosure year</p>
Adjusted depreciation	has the meaning given in the IM determination
Adjustment for unamortised initial differences in assets acquired	means for assets acquired from another regulated supplier, the value of the unamortised initial differences in asset values for those assets acquired as unamortised initial differences in asset values is determined in accordance with the input methodologies that apply to the regulated goods or services supplied by that regulated supplier
Adjustment for unamortised initial differences in assets disposed	means the value of opening unamortised initial differences in asset values for assets that are disposed of during the disclosure year

Adjustment resulting from asset allocation	<p>means</p> <p>(a) in relation to the works under construction roll-forward, the change in works under construction resulting from a change in asset allocation assumptions for assets included in works under construction, where increases in the value of works under construction are positive and decreases are negative</p> <p>(b) in relation to the regulatory tax asset base roll-forward, the change in sum of regulatory tax asset values resulting from a change in asset allocation assumptions for assets included in sum of regulatory tax asset values, where increases in the value of sum of regulatory tax asset values are positive and decreases are negative</p> <p>(c) in all other instances, the value of q calculated using the following formula:</p> $q = a - (b - c + d + e - f + g)$ <p>where:</p> <p>a = total closing RAB value</p> <p>b = total opening RAB value</p> <p>c = total depreciation</p> <p>d = total revaluations</p> <p>e = assets commissioned</p> <p>f = asset disposals</p> <p>g = lost and found assets adjustment</p> <p>The formula must be calculated using component values that relate to the RAB. These component values are the values that result from the application of clause 2.1.1 of the IM determination;</p>
Adverse environment	means all unplanned interruptions where the primary cause is adverse environment, such as slips or seismic events.
Adverse weather	means all unplanned interruptions where the primary cause is adverse weather, other than those caused by directly by lightning, vegetation contact or adverse environment
All other projects or programmes	means, within an expenditure category, the total of projects and programmes that are not material projects and programmes.
Allocator metric	has the meaning given in the IM determination
Allocator type	has the meaning given in the IM determination
Allowed controllable opex	has the meaning given in the IM determination
Amortisation of initial differences in asset values	has the meaning given in paragraph (a) of the defined term in the IM determination
Amortisation of revaluations	has the meaning given in paragraph (a) of the defined term in the IM determination

Arm's length deduction	has the meaning given in the IM determination
Asset category transfers	means the value of an asset transferred between asset categories
Asset condition at start of planning period (percentage of units by grade)	means the proportion of the quantity of each asset class assessed against the asset condition categories (H1 to 5), reflecting the likelihood of short, medium or longer term intervention. Suppliers are able to apply their own criteria for intervention when populating the table.
Asset disposals	means- (a) in relation to the unallocated RAB, the sum of unallocated opening RAB values less regulatory depreciation of disposed assets, as determined in accordance with input methodologies applicable to that asset in the IM determination; (b) in relation to the RAB, the value (as determined in accordance with paragraph (a)) which was allocated to electricity distribution services in accordance with clause 2.1.1 of the IM determination
Asset disposals (other than below)	means asset disposals other than asset disposals to a regulated supplier and asset disposals to a related party
Asset disposals to a regulated supplier	means asset disposals disposed of to a regulated supplier
Asset disposals to a related party	means asset disposals disposed of to a related party
Asset or assets with changes to depreciation	means a description of assets or groups of assets where the supplier has changed the asset(s)' depreciation profile or the asset(s) was commissioned during the disclosure year; and at least one of the following applies- (a) the asset(s) depreciation profile was changed or set in accordance with the CPP process (b) the asset(s) physical service life potential was determined by an engineer in accordance with clause 2.2.8(3) of the IM determination (c) the EDB chooses to disclose details about the asset(s) depreciation profile (d) the asset is a composite asset (as that term is used in clause 2.2.8(5) of the IM determination) and at least one of the clauses (a) to (c) applies to one of its component assets
Assets acquired from a regulated supplier	means- (a) in relation to the unallocated RAB, the sum of value of assets acquired from another regulated supplier as determined in accordance with clause 2.2.11(1)(e) of the IM determination; (b) in relation to the RAB, the value of the assets (as determined in accordance with paragraph (a)) which is allocated to the electricity distribution services in accordance with clause 2.1.1 of the IM determination

Assets acquired from a related party	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of value of assets acquired from a related party as determined in accordance with clauses 2.2.11(1)(f) and (g) of the IM determination;</p> <p>(b) in relation to the RAB, the sum of value of the assets (as determined in accordance with paragraph (a)) which is allocated to the electricity distribution services in accordance with clause 2.1.1 of the IM determination</p>
Assets commissioned (other than below)	means assets commissioned other than assets acquired from a regulated supplier and assets acquired from a related party
Attribution rate	<p>means: $q = \frac{a \times b}{c}$</p> <p>where:</p> <p>a = average opening and closing RAB values</p> <p>b = a leverage rate of 42%</p> <p>c = total book value of interest bearing debt</p>
Atypical expenditure	means expenditure on non-network assets that is 'one-off' or 'exceptional'
Average opening and closing RAB values	<p>means;</p> $q = \frac{a + b}{2}$ <p>where:</p> <p>a = Total opening RAB values</p> <p>b = Total closing RAB values</p>
Billed quantities	means the quantities associated with price components upon which the consumer's bill for electricity lines services is based expressed in the units of measure used by the EDB for setting prices (for example volumes of electricity delivered in kWh)
Book value	<p>means-</p> <p>(a) in relation to the issue date, the book value in New Zealand dollars of a qualifying debt or non-qualifying debt on the issue date</p> <p>(b) in relation to the date of financial statements, the book value in New Zealand dollars of a qualifying debt or non-qualifying debt as at the end of the period of the EDB's latest general purpose financial statements</p>

Business support	<p>means operational expenditure associated with the following corporate activities-</p> <p>HR and training (other than operational training);</p> <p>finance and regulation including compliance activities, valuations and auditing;</p> <p>CEO and director costs;</p> <p>legal services;</p> <p>consulting services (excluding engineering/technical consulting);</p> <p>property management;</p> <p>corporate communications;</p> <p>corporate IT;</p> <p>industry liaison and participation;</p> <p>commercial activities including pricing, billing, revenue collection and marketing; or</p> <p>liaison with Transpower, customers and electricity retailers</p>
Capacity of distributed generation installed in year (MVA)	<p>means the total capacity of all distributed generation added to the EDB's network in the disclosure year, measured in MVA</p>
Capex wash-up adjustment	<p>means-</p> <p>(a) for an EDB subject to a customised price-quality path commencing after 20 December 2016, a cost specified in clause 3.1.3(1)(p) of the IM determination; or</p> <p>(b) for an EDB subject to a default price-quality path, a cost specified in clause 3.1.3(1)(q) of the IM determination</p> <p><i>Guidance note: (refer to clause 1.4.1(98)-(109))</i> <i>Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clause 3.1.3(1)(p) of the IM determination.</i></p>
Capital contributions funding asset relocations	<p>means the value of capital contributions that are paid to the EDB in relation to asset relocation expenditure</p>
Capital contributions funding asset replacement and renewal	<p>means the value of capital contributions that are paid to the EDB in relation to asset replacement and renewal expenditure</p>
Capital contributions funding consumer connection	<p>means the value of capital contributions that are paid to the EDB in relation to consumer connection expenditure</p>

Capital contributions funding legislative and regulatory	means the value of capital contributions that are paid to the EDB in relation to legislative and regulatory expenditure
Capital contributions funding other reliability, safety and environment	means the value of capital contributions that are paid to the EDB in relation to other reliability, safety and environment expenditure
Capital contributions funding quality of supply	means the value of capital contributions that are paid to the EDB in relation to quality of supply expenditure
Capital contributions funding system growth	means the value of capital contributions that are paid to the EDB in relation to system growth expenditure
Catastrophic event allowance	<p>means-</p> <p>(a) for an EDB subject to a customised price-quality path commencing after 20 December 2016, a cost specified in clause 3.1.3(1)(m) of the IM determination; or</p> <p>(b) for an EDB subject to a default price-quality path, a cost specified in clause 3.1.3(1)(n) of the IM determination</p> <p><i>Guidance note: (refer to clause 1.4.1(98)-(109)) Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clause 3.1.3(1)(m) of the IM determination.</i></p>
Cause	means the primary contributing factor
CB	means circuit breaker
Circuit length	means all lines and cables with the exception of services, street lighting, and private lines (and, when a pole or tower carries multiple circuits, the length of each of the circuits is to be calculated individually).
Circuit length by operating voltage (at year end)	means the total length of all circuits operating at the prescribed voltage(s)
Class A (planned interruptions by Transpower)	means a planned interruption initiated by Transpower
Class D (unplanned interruptions by Transpower)	means an unplanned interruption originating within the works of Transpower, where those works are used for carrying out line business activities.
Class E (unplanned interruptions of EDB owned generation)	means an unplanned interruption originating within works used, by the EDB, for the generation of electricity.

Class F (unplanned interruptions of generation owned by others)	means an unplanned interruption originating within works used, by persons other than the EDB, for the generation of electricity.
Class G (unplanned interruptions caused by another disclosing entity)	means an unplanned interruption caused by another EDB.
Class H (planned interruptions caused by another disclosing entity)	means a planned interruption caused by another EDB
Class I (interruptions caused by parties not included above)	means an interruption not referred to in any of classes A-H
Closing deferred tax	has the meaning given in clause 2.3.7(2) of the IM determination
Closing RAB value under 'non-standard' depreciation	means the closing RAB value or sum of closing RAB values as determined in accordance with Part 2, Subpart 2 of the IM determination for the relevant asset or assets with non-standard depreciation
Closing RAB value under 'standard' depreciation	means- (a) in relation to assets or groups of assets where depreciation is included in depreciation - no standard life asset, 'not applicable' (b) in relation to assets or groups of assets where depreciation is included in depreciation - modified life assets or depreciation - alternative depreciation determined in accordance with CPP, the sum of closing RAB values as determined in accordance with the IM determination as if the closing RAB value and all proceeding closing RAB values had been calculated in accordance with clause 2.1.1 of the IM determination applying a physical asset life determined in accordance with either clause 2.2.8(1)(i)(iii) or (j) of the IM determination for the relevant asset or assets with non-standard depreciation
Closing RIV	means total closing RAB values less adjustment resulting from asset allocation less lost and found assets adjustment plus closing deferred tax
Closing sum of regulatory tax asset values	means the sum of regulatory tax asset values for assets that have a value included in total closing RAB value plus the regulatory tax asset values of assets referred to in clause 2.3.9(4)(b) of the IM determination
Closing tax losses	has the meaning given in clause 2.3.2(4) of the IM determination
Closing unamortised initial differences in asset values	means closing unamortised initial differences in asset values determined in accordance with clause 2.3.5(6) of the IM determination
Commerce Act levies	means a cost specified in clause 3.1.2(2)(b)(i) of the IM determination

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Conservation area	means any land or foreshore that is- (a) land or foreshore for the time being held under the Conservation Act 1987 for conservation purposes; or (b) land in respect of which an interest is held under the Conservation Act 1987 for conservation purposes
Consumer type	means a category of consumers as defined by the EDB that is typical of the type of consumer connected to the network. This may refer to consumer groups as used for pricing, physical connection attributes or any other attribute that the EDB considers appropriate.
Corporate tax rate	has the meaning given in the IM determination
Cost of debt assumption	means the sum of the risk free rate, average debt premium estimates and debt issuance costs as published by the Commission in accordance with clauses 2.4.1 to 2.4.9 of the IM determination for each disclosure year
Coupon rate	means- (a) where the information is available publicly, the nominal coupon rate of interest of a qualifying debt on the issue date; (b) where the nominal coupon rate of interest of a qualifying debt on the issue date is not available publicly, either the nominal coupon rate of interest or the basis for determining the nominal coupon rate of interest of a qualifying debt on the issue date
CPI ₄	has the meaning given in clause 2.2.9(4) of the IM determination
CPI ₄ ⁻⁴	has the meaning given in clause 2.2.9(4) of the IM determination
CPP application recoverable costs	means costs specified in either clause 3.1.3(1)(h),(i),(j),(k) or (l) of the IM determination
CPP specified pass through costs	means a cost specified in clause 3.1.2(1)(b) of the IM determination
Current Peak Load	means the maximum total load measured as being supplied by the existing zone substation at any time in the disclosure year, expressed in units of MVA
Current period tax losses	has the meaning given in clause 2.3.2(5) of the IM determination

Data accuracy (1–4)	<p>means the EDB’s assessment of the accuracy of the data provided, using one of the following options-</p> <p>1 – means that good quality data is not available for any of the assets in the category and estimates are likely to contain significant error</p> <p>2 – means that good quality data is available for some assets but not for others and the data provided includes estimates of uncounted assets within the category</p> <p>3 – means that data is available for all assets but includes a level of estimation where there is understood to be some poor quality data for some of the assets within the category</p> <p>4 – means that good quality data is available for all of the assets in the category</p>
Debt issue cost readjustment	has the meaning given in clause 2.4.9(4) of the IM determination
Dedicated street lighting circuit length	means the length in km of circuit that only provides electricity to street lighting
Defective equipment	means all unplanned customer interruptions resulting from equipment failure, either mechanical or electrical
Deferred tax balance relating to assets acquired in the disclosure year	has the meaning given in clause 2.3.7(3) of the IM determination
Deferred tax balance relating to assets disposed in the disclosure year	means the amount of deferred tax associated with asset disposals. The definition assumes a deferred tax asset position. If the deferred tax balances relating to the asset disposals is a liability it must be entered as a negative amount
Deferred tax cost allocation adjustment	means cost allocation adjustments as defined in clause 2.3.7(5) of the IM determination
Depreciation - alternative depreciation in accordance with CPP	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.6 of the IM determination;</p> <p>(b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.6 of the IM determination</p>
Depreciation - modified life assets	<p>means-</p> <p>(a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination;</p> <p>(b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination;</p> <p>of assets with a physical asset life determined in accordance with clauses 2.2.8(1)(b) or 2.2.8(2) of the IM determination or where clauses 2.2.8(1)(e) and 2.2.8(1)(i)(iv) of the IM determination apply with reference to assets with a physical asset life determined in accordance with clauses 2.2.8(1)(b) or 2.2.8(2) of the IM determination</p>

Depreciation - no standard life assets	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination; (b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination; of assets with a physical asset life determined in accordance with clauses 2.2.8(1)(a) or 2.2.8(1)(i)(iv)-(v) of the IM determination or where clauses 2.2.8(1)(e) and 2.2.8(1)(i)(iv) of the IM determination apply with reference to assets with a physical asset life determined in accordance with clauses 2.2.8(1)(a) or 2.2.8(1)(e) or 2.2.8(1)(i)(iv)-(v) or 2.2.8(1)(k) of the IM determination
Depreciation - standard	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.5(1) of the IM determination; (b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.5(2) of the IM determination; excluding depreciation - alternative depreciation in accordance with CPP, depreciation - modified life assets, and depreciation - no standard life assets
Depreciation charge for the period (RAB)	means the depreciation or sum of depreciation as determined in accordance with the IM determination for the relevant asset or assets with non-standard depreciation
Directly billed	means invoiced directly by the EDB for electricity distribution services, rather than by an electricity retailer or other person in an interposed billing relationship between the EDB and the consumer
Disposed asset	has the meaning given in paragraph (a) of the defined term in the IM determination
Distributed generation allowance	means a cost specified in clause 3.1.3(1)(f) of the IM determination
Distributed generation – Number of connections made in year	means the number of distributed generation connections added to the EDB’s network in the disclosure year
Distributed generation output at HV and above	means the total rate of power output, coincident with the GXP demand, of all distributed generation that is connected to the network at a voltage of HV and higher, measured in MW
Distribution and LV cables	means all underground power cables operated at distribution voltage or low voltage
Distribution and LV lines	means all overhead power lines operated at distribution voltage or low voltage.
Distribution cables (excluding LV)	means all underground power cables operated at distribution voltage excluding low voltage cables
Distribution line charge revenue	means line charge revenue that is not transmission line charge revenue
Distribution lines (excluding LV)	means all overhead power lines operated at distribution voltage excluding low voltage lines

Distribution other (excluding LV)	means network assets operated at distribution voltage which are not distribution cables or distribution lines and excluding low voltage assets
Distribution substations and transformers	means- (a) substations, including all associated pole mountings, ground pads and covers, and kiosks and components used to install transformers; and (b) transformers used to convert between distribution voltage and low voltage. For the purpose of the RAB disclosure this excludes distribution switchgear installed at distribution substations but includes surge arrestors
Distribution switchgear	means all switchgear operated at distribution voltage. This includes disconnectors, fuses (including drop outs and fuse switches), circuit breakers, reclosers, sectionalisers, ring main units and voltage regulators. For the purpose of RAB, the value of the switchgear includes the value of protection and controls equipment installed on the switchgear.
Distribution transformer capacity (EDB owned)	means the sum of the capacities of all distribution transformers that are part of, or supplied by, the network and owned by the EDB, expressed in MVA
Distribution transformer capacity (Non-EDB owned, estimated)	means the sum of the capacities of all distribution transformers that are part of, or supplied by, the network and not owned by the EDB, expressed in MVA. EDBs should make reasonable inquiries in order to obtain an estimate where it is not already known.
Duration (Min)	means the number of minutes between the start and end of the interruption
Electricity exports to GXP	means the total volume of electricity exported from the EDBs network through every GXP to which the network is connected, measured in GWh.
Electricity lines service charge payable to Transpower	means a cost specified in clause 3.1.3(1)(b) of the IM determination
Electricity losses (loss ratio)	means (for electricity losses) electricity entering system for supply to consumers' connection points less total energy delivered to ICPs and (for the loss ratio) is electricity losses divided by electricity entering system for supply to consumers' connection, expressed as a percentage. Non-metered energy supplied should be estimated. <i>(Note: the resulting loss ratio will comprise both technical and non-technical losses)</i>
Electricity supplied from distributed generation	means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh
Electricity supplied from GXP	means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh
Electricity volumes carried	means the volume of electricity measured at the specified location within the power system in the specified year, in GWh
Energy efficiency and demand incentive allowance	means a cost specified in clause 3.1.3(1)(m) of the IM determination

Energy efficiency and demand side management, reduction of energy losses	<p>means, in relation to expenditure, expenditure on assets or operational expenditure where the primary driver is to improve the efficient provision of electricity line services by-</p> <p>(a) improving energy efficiency, including by increasing the amount of energy services consumed or able to be consumed per unit of energy input;</p> <p>(b) encouraging demand side management, including by managing consumers' rate or timing of electricity consumption; or</p> <p>(c) implementing initiatives that reduce electricity losses;</p> <p>(d) implementing initiatives that reduce reactive power flows in the network.</p>
Existing zone substations	means the identifier of an existing zone substation
Expenditure on non-network assets	means expenditure on assets relating to non-network assets
Expenditure or loss deductible but not in regulatory profit / (loss) before tax	means expenditure or loss deductible but not in regulatory profit / (loss) before tax as determined in accordance with clause 2.3.3(4)(b) of the IM determination
Expenditure or loss in regulatory profit / (loss) before tax but not deductible	means expenditure or loss in regulatory profit / (loss) before tax but not deductible as determined in accordance with clause 2.3.3(2)(b) of the IM determination
Expenses cash outflow	means operational expenditure plus pass through and recoverable costs excluding financial incentives and wash-ups
Explanation	means a description or information relevant to the information provided in respect of the existing zone substation that provides additional context or clarification
Extended reserves allowance	<p>means-</p> <p>(a) for an EDB subject to a customised price-quality path commencing after 20 December 2016, a cost specified in clause 3.1.3(1)(n) of the IM determination; or</p> <p>(b) for an EDB subject to a default price-quality path, a cost specified in clause 3.1.3(1)(o) of the IM determination</p> <p><i>Guidance note: (refer to clause 1.4.1(98)-(109)) Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clause 3.1.3(1)(n) of the IM determination.</i></p>

Financial incentives	means the sum of- (a) net recoverable costs allowed under net incremental rolling incentive scheme; (b) purchased assets - avoided transmission charge; (c) energy efficiency and demand incentive allowance; (d) quality incentive adjustment; and (e) other financial incentives
Gains / (losses) on asset disposals	means, in relation to- (a) asset disposals to a related party, nil; (b) asset disposals to a regulated supplier, nil; (c) asset disposals (other than below), means- $q = a - b$ where a = total sale price of the assets b = asset disposals (other than below)
Grade unknown	means condition unknown or not yet assessed
Gross term credit spread differential	means the sum of term credit spread difference and debt issue cost readjustment for qualifying debt
GXP	means grid exit point
GXP demand	means the maximum coincident import demand of the total of each of the EDB's GXP demands, measured in MW. All exports from the EDB's network at the time of measurement should be subtracted from the total.
H1	means replacement recommended <i>Guidance note: (refer to clause 1.4.1(98)-(109)) This grade is derived from Figure 1 of the Electricity Engineers' Association Asset Health Indicator Guide, published January 2016.</i>
H2	means end of life drivers for replacement present, high asset related risk <i>Guidance note: (refer to clause 1.4.1(98)-(109)) This grade is derived from Figure 1 of the Electricity Engineers' Association Asset Health Indicator Guide, published January 2016.</i>
H3	means end of life drivers for replacement present, increasing asset related risk <i>Guidance note: (refer to clause 1.4.1(98)-(109)) This grade is derived from Figure 1 of the Electricity Engineers' Association Asset Health Indicator Guide, published January 2016.</i>
H4	means asset serviceable – no drivers for replacement, normal in service deterioration <i>Guidance note: (refer to clause 1.4.1(89)-(109)) This grade is derived from Figure 1 of the Electricity Engineers' Association Asset Health Indicator Guide, published January 2016.</i>

H5	<p>means as new condition – no drivers for replacement</p> <p><i>Guidance note: (refer to clause 1.4.1(89)-(109))</i> <i>This grade is derived from Figure 1 of the Electricity Engineers’ Association Asset Health Indicator Guide, published January 2016.</i></p>
HV	<p>means high voltage, a nominal AC voltage of 1000 volts and more, or the assets of the EDB that are directly associated with the transport or delivery of electricity at those voltages</p>
Highest rate of capitalised finance applied	<p>means the highest rate of finance used as the cost of financing capitalised in works under construction</p>
Human error	<p>means all unplanned customer interruptions resulting from contractors or staff, commissioning errors, incorrect protection settings, SCADA problems, switching errors, dig-in and overhead contact.</p>
Impact of financial incentives on ROIs	<p>means-</p> $q = a - b$ <p>where</p> <p>a = ROI – comparable to a vanilla WACC – reflecting all revenue earned</p> <p>b = ROI – comparable to a vanilla WACC - excluding revenue earned from financial incentives</p>
Impact of wash-up costs on ROIs	<p>means-</p> $q = a - b$ <p>where</p> <p>a = ROI – comparable to a vanilla WACC – excluding revenue earned from financial incentives</p> <p>b = ROI – comparable to a vanilla WACC – excluding revenue earned from financial incentives and wash-up costs</p>
Income included in regulatory profit / (loss) before tax but not taxable	<p>means income included in regulatory profit / (loss) before tax but not taxable as determined in accordance with clause 2.3.3(4)(a) of the IM determination excluding total revaluations</p>
Income not included in regulatory profit / (loss) before tax but taxable	<p>means income not included in regulatory profit / (loss) before tax that is taxable as determined in accordance with clause 2.3.3(2)(a) of the IM determination</p>
Incremental gain/(loss) in year	<p>means the incremental change or incremental adjustment term for the disclosure year determined in accordance with clause 3.3.1 of the IM determination</p>

Industry levies	<p>means-</p> <p>(a) for an EDB subject to a customised price-quality path commencing after 20 December 2016, a cost specified in clauses 3.1.2(1)(b) and 3.1.2(2)(b)(ii)-(iii) of the IM determination; or</p> <p>(b) for an EDB subject to a default price-quality path, a cost specified in clauses 3.1.2(1)(b)(i) and 3.1.2(2)(b)(ii)-(iii) of the IM determination</p> <p><i>Guidance note: (refer to clause 1.4.1(98)-(109)) Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clauses 3.1.2(1)(b) and 3.1.2(2)(b)(ii)-(iii) of the IM determination.</i></p>
Input methodology claw-back	means a cost specified in clause 3.1.3(1)(g) of the IM determination
Installed Firm Capacity	<p>means the capacity as at the last day of the disclosure year that can be delivered from an existing zone substation following:</p> <p>(a) an outage of the highest capacity item of primary equipment within the zone substation; or</p> <p>(b) the highest capacity circuit supplying the zone substation.</p> <p>For the purpose of this definition, primary equipment includes the low voltage circuit of a zone transformer and excludes the low voltage switchboard. Installed Firm Capacity shall be measured in units of MVA</p>
Installed Firm Capacity + 5 years	means the Installed Firm Capacity forecast by the EDB to be installed at the end of the year that is 5 years after the disclosure year, expressed in MVA
Installed Firm Capacity Constraint +5 years (cause)	<p>means the cause of any capacity constraint that is forecast by the EDB to impact the existing zone substation at the end of the year that is 5 years after the disclosure year. The cause must be selected from the following options-</p> <ul style="list-style-type: none"> • subtransmission circuit • transformer • ancillary equipment • Transpower • other • no constraint forecast within 5 years
Insurance	means a contract of insurance as defined in the Insurance (Prudential Supervision) Act 2010

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Issue date	means the day on which a qualifying debt or non-qualifying debt is issued
Items at end of year (quantity)	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the end of the disclosure year, expressed in the prescribed unit
Items at start of year (quantity)	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the start of the disclosure year, expressed in the prescribed unit
kWh	means kilowatt-hour
Length of circuit within 10km of coastline or geothermal areas (where known)	means a circuit, or a section of a circuit, installed within 10 km of any coastline or in any geothermal area, where this information is known to the EDB
Leverage	has the meaning given in the IM determination
Lightning	means all unplanned customer interruptions where the primary cause is a lightning strike, resulting in insulation breakdown and or flashovers. Typically protection is the only observable operation.
Line item	has the meaning given in the IM determination
Load factor	means $\frac{a}{b \times c}$ where <i>a</i> = electricity entering system for supply to customers' connection points <i>b</i> = demand on the system for supply to customers' connection points <i>c</i> = number of hours in the disclosure year
Location	means physical location of the embedded network
Market value of asset disposals	means the market value of disposed assets sold or transferred to a related party
Maximum coincident system demand	means the aggregate peak demand for the EDB's network, being the coincident maximum sum of GXP demand and distributed generation output at HV and above, measured in MW
Merger and acquisition expenditure	means expenditure related to merger and acquisition activities irrespective of the outcome of the merger or acquisition, but proportionate to the extent the benefits of the merger or acquisition would relate to electricity distribution services. Disclosure of benefits to electricity distribution services is required for the merger or acquisition expenditure to be recognised.
Mid-point estimate of post tax WACC	means the mid-point estimate of post tax WACC for the 5 year period commencing on the first day of the disclosure year determined by the Commission in accordance with clause 2.4.1 of the IM determination

Mid-point estimate of vanilla WACC	means the mid-point estimate of vanilla WACC for the 5 year period commencing on the first day of the disclosure year determined by the Commission in accordance with clause 2.4.1 of the IM determination														
Mid-year net cash outflows	means expenses cash outflow plus assets commissioned less asset disposals plus tax payments less other regulated income														
Monthly net cash outflows	means expenses cash outflow plus assets commissioned less asset disposals less other regulated income														
Monthly ROI – comparable to a post tax WACC	means the monthly ROI comparable to the vanilla WACC less the product of the cost of debt (%), the leverage and the corporate tax rate														
Monthly ROI – comparable to a vanilla WACC	means the internal rate of return for a schedule of cash flows that occur according to a schedule of dates where the schedules of cash flows and dates are- <table border="0" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: left;"><u>Cash flows</u></th> <th style="text-align: left;"><u>Dates</u></th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 days before year-end</td> </tr> <tr> <td>- Monthly net cash outflows</td> <td>15th of the month incurred</td> </tr> <tr> <td>Line charge revenue</td> <td>20th of the month following accrual</td> </tr> <tr> <td>- Tax payments</td> <td>182 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table>	<u>Cash flows</u>	<u>Dates</u>	- Opening RIV	365 days before year-end	- Monthly net cash outflows	15 th of the month incurred	Line charge revenue	20 th of the month following accrual	- Tax payments	182 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end
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Closing RIV	Year-end														
Name of related party	means the name of the related party that has entered into a transaction with the EDB														
Net electricity supplied to (from) other EDBs	means the volume of electricity supplied from (to) the disclosing EDB's network to (from) other EDBs														
Net incremental rolling incentive scheme	means the sum of previous years' incremental gain/loss from the 5 disclosure years preceding the current disclosure year														
Net recoverable costs allowed under incremental rolling incentive scheme	means, where- <ol style="list-style-type: none"> (a) net incremental rolling incentive scheme is positive, net incremental rolling incentive scheme; (b) net incremental rolling incentive scheme is nil or negative, nil 														
Net transfers to (from) other EDBs at HV and above	means the total rate of power transfer to (from) other EDB's networks to which the EDB's network is connected, measured in MW														
Network opex	means the sum of operational expenditure relating to service interruptions and emergencies, vegetation management, routine and corrective maintenance and inspection, and asset replacement and renewal														
New allocation	means the operating costs or regulated service asset values allocated to electricity distribution services in accordance with the new allocator and line items for each of the relevant disclosure years														
New allocator or line item	means the allocator or line items that are used subsequent to the change in allocator or line items														

No. with age unknown	means the total quantity of assets in the prescribed asset category and asset class installed in the network for which no installation information is known and no default date has been assigned
No. with default dates	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the end of the disclosure year where the original installation year is unknown and that have accordingly been allocated to a default installation year, expressed in the prescribed unit
Non-electricity distribution services	means services of the EDB that are not electricity distribution services
Non-network opex	means the sum of operational expenditure relating to system operations and network support, and business support
Non-qualifying debt	means interest bearing debt that is not a qualifying debt
Non-standard consumer	means any consumer that is not a standard consumer
Normalised SAIDI	has the meaning specified in Attachment B
Normalised SAIFI	has the meaning specified in Attachment B
Notional deductible interest	has the meaning given in clause 2.3.4(2) of the IM determination
Notional revenue foregone from posted discounts	<p>means, for the purposes of Schedule 8, the revenue anticipated from posted discounts had they not been applied.</p> <p>Posted discounts has-</p> <ul style="list-style-type: none"> (a) for EDBs subject to a customised price-quality path commencing after 20 December 2016, the meaning for 'discount' given in clause 3.1.1(11) of the IM determination; or (b) for EDBs subject to a default price-quality path, the meaning given in clause 3.1.1(5) of the IM determination. <p><i>Guidance note: (refer to clause 1.4.1(98)-(109))</i> <i>Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see the meaning for 'discount' given in clause 3.1.1(11) of the IM determination.</i></p>
Number of assets at disclosure year end by installation date	means the total quantity of assets in the prescribed asset category and asset class installed in the network at the end of the disclosure year that were first installed in the prescribed year, expressed in the prescribed unit
Number of connections (ICPs)	means the number of points of connection, as represented by unique ICP identifiers having a status of active or inactive recorded on the registry in accordance with the Electricity Industry Participation Code 2010
Number of ICPs served	means the number of ICPs served by the embedded network

OH	means overhead
Opening deferred tax	has the meaning given in the IM determination
Opening RIV	means the sum of total opening RAB values plus opening deferred tax
Opening sum of RAB values without revaluations	means the sum of opening RAB values as determined in accordance with the IM determination, calculated as if no amount of revaluation calculated in accordance with the IM determination had been included in the calculation of any of those opening RAB values following the determination of the initial RAB
Opening sum of regulatory tax asset values	means the sum of regulatory tax asset values for assets included in the total opening RAB value plus the regulatory tax asset values of assets referred to in clause 2.3.9(4)(b) of the IM determination
Opening tax losses	has the meaning given in clause 2.3.2(3) of the IM determination
Opening unamortised initial differences in asset values	has the meaning given in clause 2.3.5(2) of the IM determination
Opening value of fully depreciated, disposed and lost assets	means <ul style="list-style-type: none"> (a) in relation to the unallocated RAB, the sum of unallocated RAB included in the total opening RAB values, values of assets that are fully depreciated during the disclosure year, asset disposals and lost assets included in lost and found assets adjustment; (b) in relation to the RAB, the sum of RAB values of assets included in the total opening RAB values that are fully depreciated during the disclosure year, asset disposals and lost assets included in the lost and found assets adjustment
Opening weighted average remaining useful life of relevant assets (years)	has the meaning given in clause 2.3.5(4) of the IM determination
Operating surplus / (deficit)	means total regulatory income less operational expenditure less pass through and recoverable costs excluding financial incentives and wash-ups
Original allocation	means the operational expenditure or regulated service asset values allocated to electricity distribution services in accordance with the allocations and line items made in the previous disclosure year
Original allocator or line items	means the allocator or line items that were used prior to the change in allocator or line items

Original tenor	<p>means-</p> <p>(a) where the qualifying debt or non-qualifying debt is not issued to a related party, the term of a qualifying debt or non-qualifying debt at the issue date;</p> <p>(b) where the qualifying debt or non-qualifying debt is issued to a related party, the shorter of the-</p> <p>(i) the tenor of the qualifying debt; or</p> <p>(ii) the period from the qualifying debt's issue date to the earliest date on which its repayment is or may be required</p>
Other adjustments to the RAB tax value	<p>means</p> $q = a - (b + c - d - e + f + g)$ <p>where:</p> <p><i>a</i> = closing sum of regulatory tax asset values</p> <p><i>b</i> = opening sum of regulatory tax asset values</p> <p><i>c</i> = regulatory tax asset value of assets commissioned</p> <p><i>d</i> = regulatory tax asset value of asset disposals</p> <p><i>e</i> = tax depreciation</p> <p><i>f</i> = lost and found assets adjustment</p> <p><i>g</i> = adjustment resulting from asset allocation</p>
Other financial incentives	<p>means recoverable costs specified by the Commission in a CPP determination using an input methodology variation under clause 53V(2)(c) of the Act, and classified by the Commission as a 'financial incentive' in that CPP determination</p>
Other network assets	<p>means network assets used by the EDB to provide electricity lines services that are not subtransmission, zone substation, distribution and LV lines, distribution and LV cables, distribution substations and transformers or distribution switchgear, and includes central facilities for SCADA and telecommunications systems</p>
Other recoverable costs excluding financial incentives and wash-ups	<p>means recoverable costs specified by the Commission in a CPP determination using an input methodology variation under clause 53V(2)(c) of the Act, excluding other financial incentives and other wash-ups</p>
Other regulated income	<p>has the meaning given in the IM determination</p>
Other regulated income (other than gains / (losses) on asset disposals)	<p>means other regulated income excluding gains / (losses) on asset disposals</p>
Other related party transactions	<p>means the value of related party transactions that are not disclosed as total regulatory income, operational expenditure, capital expenditure or market value of asset disposals</p>

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Other wash-ups	means recoverable costs specified by the Commission in a CPP determination using an input methodology variation under clause 53V(2)(c) of the Act, and classified by the Commission as a 'wash-up' in that CPP determination
OVABAA allocation increase	has the meaning given in the IM determination
Overhead	means circuits installed as overhead lines, expressed in km
Overhead circuit length by terrain (at year end)	means the total length of all circuits operating within the prescribed terrain type
Overhead circuit requiring vegetation management	means a circuit, or a section of a circuit, installed in an area that has been identified as requiring ongoing vegetation management due to its proximity with adjacent vegetation that may interfere with the safe and/or secure operation of the circuit
Overhead to underground conversion	in relation to expenditure, means expenditure on assets incurred in developing underground circuits in circumstances where these primarily replace equivalent existing overhead circuits.
Pass through and recoverable costs excluding financial incentives and wash-up costs	means the sum of- (a) rates; (b) Commerce Act levies; (c) industry levies; (d) CPP specified pass through costs; (e) electricity lines services charge payable to Transpower; (f) Transpower new investment contract charges; (g) system operator services; (h) distributed generation allowance; (i) extended reserves allowance; and (j) other recoverable costs excluding financial incentives and wash-ups
Previous years' incremental gain/(loss)	means the incremental change and incremental adjustment term for the disclosure year in question determined in accordance with clause 3.3.1 of the IM determination
Previous years' incremental gain/(loss) adjusted for inflation	means the previous years' incremental gain/(loss) carried forward by applying the inflation rate in accordance with clause 3.3.2(1) of the IM determination
Price category code	means the relevant code in the schedule published by the EDB that uniquely identifies a consumer group for an ICP
Pricing date	means the day on which a qualifying debt is priced
Purchased assets - avoided transmission charge	means a cost specified in clause 3.1.3(1)(e) of the IM determination
Qualifying debt	has the meaning given in paragraph (a) of the defined term in clause 1.1.4(2) of the IM determination

Quality incentive adjustment	<p>means-</p> <p>(a) for an EDB subject to a customised price-quality path commencing after 20 December 2016, a cost specified in clause 3.1.3(1)(o) of the IM determination; or</p> <p>(b) for an EDB subject to a default price-quality path, a cost specified in clause 3.1.3(1)(p) of the IM determination</p> <p><i>Guidance note: (refer to clause 1.4.1(98)-(109))</i> <i>Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clause 3.1.3(1)(o) of the IM determination.</i></p>
Rates	means a cost specified in clause 3.1.2(2)(a) of the IM determination
Rationale for change	means the rationale for changing the allocator or line items, including whether the change occurred because of change in circumstance or another reason
Reason for non-standard depreciation	<p>means-</p> <p>(a) in relation to assets or groups of assets where depreciation is included in depreciation - no standard life asset, 'no standard life';</p> <p>(b) in relation to assets or groups of assets where depreciation is included in depreciation - modified life assets, 'modified life';</p> <p>(c) in relation to assets or groups of assets where depreciation is included in depreciation - alternative depreciation determined in accordance with CPP, 'CPP amendment'</p>
Reconsideration event allowance	<p>means-</p> <p>(a) for an EDB subject to a customised price-quality path commencing after 20 December 2016, a cost specified in clause 3.1.3(1)(s) of the IM determination; or</p> <p>(b) for an EDB subject to a default price-quality path, a cost specified in clause 3.1.3(1)(t) of the IM determination</p> <p><i>Guidance note: (refer to clause 1.4.1(98)-(109))</i> <i>Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clause 3.1.3(1)(s) of the IM determination.</i></p>
Recoverable costs	has the meaning set out in the IM determination
Regulated supplier	has the meaning given in the IM determination
Regulatory investment value	means opening RIV

Regulatory net taxable income	has the meaning given in clause 2.3.1(2) of the IM determination
Regulatory profit / (loss) before tax	means the value of q calculated using the following formula: $q = a - b + c$ where: a = operating surplus / (deficit) b = total depreciation c = total revaluations
Regulatory profit / (loss) including financial incentives and wash-ups	means the regulatory profit / (loss) before tax less the regulatory tax allowance less term credit spread differential allowance
Regulatory tax allowance	has the meaning given in clause 2.3.1 of the IM determination
Regulatory tax asset value	has the meaning given in the IM determination
Regulatory tax asset value of asset disposals	means the sum of regulatory tax asset values for assets that have a value in asset disposals
Regulatory tax asset value of assets commissioned	means the sum of regulatory tax asset values for assets that have a value in assets commissioned
Regulatory taxable income	has the meaning given in the IM determination
Remote	means a circuit, or a section of a circuit, installed in an area which are situated more than 75 km from the EDB's, or the EDB's contractor's, nearest works depot
Research and development	in relation to expenditure, means expenditure on assets or operational expenditure where the primary driver for the expenditure relates to increasing the efficient provision of electricity lines services through- <ul style="list-style-type: none"> • implementing an original and planned investigation undertaken with the prospect of gaining new scientific or technical knowledge or understanding; or • applying research findings or other knowledge to a plan or design for the production of new or substantially improved materials, devices, products, processes, systems or services before the start of commercial production or use.
Revaluation rate	has the meaning given in the IM determination
RMU	means ring main unit
ROI	means return on investment

<p>ROI – comparable to a post tax WACC</p>	<p>means-</p> <p>(d) in relation to the ROI – comparable to a post tax WACC reflecting all revenue earned</p> $q = a - (d \times e \times f)$ <p>(e) in relation to the ROI – comparable to a post tax WACC excluding revenue earned from financial incentives</p> $q = b - (d \times e \times f)$ <p>(f) in relation to the ROI – comparable to a post tax WACC excluding revenue earned from financial incentives and wash-ups</p> $q = c - (d \times e \times f)$ <p>where</p> <p><i>a</i> = ROI – comparable to a vanilla WACC reflecting all revenue earned</p> <p><i>b</i> = ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives</p> <p><i>c</i> = ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives and wash-ups</p> <p><i>d</i> = cost of debt assumption</p> <p><i>e</i> = leverage</p> <p><i>f</i> = corporate tax rate</p>
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<p>ROI – comparable to a vanilla WACC</p>	<p>means the internal rate of return for a schedule of cash flows that occur according to a schedule of dates where the schedules of cash flows and dates-</p> <p>(a) in relation to the ROI – comparable to a vanilla WACC reflecting all revenue earned, are-</p> <table data-bbox="555 443 1375 651"> <thead> <tr> <th><u>Cash flows</u></th> <th><u>Dates</u></th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 days before year-end</td> </tr> <tr> <td>- Mid-year net cash outflows</td> <td>182 days before year-end</td> </tr> <tr> <td>Line charge revenue</td> <td>148 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table> <p>(b) in relation to the ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives, are-</p> <table data-bbox="555 797 1375 1077"> <thead> <tr> <th><u>Cash flows</u></th> <th><u>Dates</u></th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 days before year-end</td> </tr> <tr> <td>- (Mid-year net cash outflows less (financial incentives multiplied by the corporate tax rate))</td> <td>182 days before year-end</td> </tr> <tr> <td>Line charge revenue less financial incentives</td> <td>148 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table> <p>(c) in relation to the ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives and wash-ups, are-</p> <table data-bbox="555 1196 1375 1512"> <thead> <tr> <th><u>Cash flows</u></th> <th><u>Dates</u></th> </tr> </thead> <tbody> <tr> <td>- Opening RIV</td> <td>365 days before year-end</td> </tr> <tr> <td>- (Mid-year net cash outflows less (financial incentives and wash-ups multiplied by the corporate tax rate))</td> <td>182 days before year-end</td> </tr> <tr> <td>Line charge revenue less financial incentives and wash-up costs</td> <td>148 days before year-end</td> </tr> <tr> <td>- Term credit spread differential allowance</td> <td>Year-end</td> </tr> <tr> <td>Closing RIV</td> <td>Year-end</td> </tr> </tbody> </table>	<u>Cash flows</u>	<u>Dates</u>	- Opening RIV	365 days before year-end	- Mid-year net cash outflows	182 days before year-end	Line charge revenue	148 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end	<u>Cash flows</u>	<u>Dates</u>	- Opening RIV	365 days before year-end	- (Mid-year net cash outflows less (financial incentives multiplied by the corporate tax rate))	182 days before year-end	Line charge revenue less financial incentives	148 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end	<u>Cash flows</u>	<u>Dates</u>	- Opening RIV	365 days before year-end	- (Mid-year net cash outflows less (financial incentives and wash-ups multiplied by the corporate tax rate))	182 days before year-end	Line charge revenue less financial incentives and wash-up costs	148 days before year-end	- Term credit spread differential allowance	Year-end	Closing RIV	Year-end
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<p>Routine expenditure</p>	<p>means expenditure on assets related to non-network assets that is not atypical expenditure</p>																																				
<p>Rugged</p>	<p>means a circuit, or a section of a circuit, installed in an area where normal line construction vehicles and plant cannot be used and where it is necessary to use helicopters, tracked vehicles, boats, or other specialised plant or where difficult physical or climatic conditions involving swampy ground, high winds or snow exist and non standard line construction designs are employed to accommodate these conditions</p>																																				
<p>Rural</p>	<p>means a circuit, or a section of a circuit, installed in a ruralised area where the average HV span length is approximately 70 - 80 metres, and does not include those circuits located in remote and/or rugged areas</p>																																				

SAIDI reliability limit	means the SAIDI reliability limit that applies to the non-exempt EDB in respect of the disclosure year under an applicable s52P determination
SAIFI reliability limit	means the SAIFI reliability limit that applies to the non-exempt EDB in respect of the disclosure year under an applicable s52P determination
Security of supply classification	<p>means the classification of the existing zone substation on the basis of the ability to supply the current peak load without curtailment or interruption if 1 or more zone substation transformers installed at the existing zone substation are not operating. Valid classification types are-</p> <ul style="list-style-type: none"> • N, means that the current peak load may only be supplied without curtailment or interruption if all zone substation transformers are operating; • N minus 1 (or N-1), means that the current peak load may be supplied without curtailment or interruption including if the largest zone substation transformer is not operating; • N minus 2 (or N-2), means that the current peak load may be supplied without curtailment or interruption including if the largest 2 zone substation transformers are not operating; • N minus 1 switched (or N-1 switched), means that the current peak load may be supplied following a brief interruption during which switching is carried out to re-establish supply following an unexpected outage of the largest zone substation transformer;
Self-insurance allowance	means any self-insurance allowance allowed by the Commission through a CPP
Standard consumer	means a consumer of the EDB that has a standard contract with that EDB for the provision of electricity lines services
Subtransmission cables	means all power cables operated at a subtransmission voltage
Subtransmission lines	means all power lines operated at a subtransmission voltage
SWER	means single wire earth return
System operator services	means a cost specified in clause 3.1.3(1)(d) of the IM determination
Tax depreciation	has the meaning given in clause 2.3.8(3) of the IM determination
Tax effect	has the meaning given in the IM determination
Tax effect of adjusted depreciation	means the tax effect of adjusted depreciation, using the definitions of “tax effect” and “adjusted depreciation” in this schedule

Tax effect of amortisation of initial differences in asset values	means the tax effect of amortisation of initial differences in asset values, using the definition of “tax effect” and “amortisation of initial difference in asset values” in this schedule
Tax effect of other temporary differences	means the tax effect of positive temporary differences less negative temporary differences but excluding deferred tax balances relating to assets disposed in the disclosure year. Positive temporary differences and negative temporary differences have the meanings set out in clause 2.3.8(4) and (5) of the IM determination
Tax effect of tax depreciation	means the tax effect of total tax depreciation using the definitions of “tax effect” and “tax depreciation” in this schedule
Tax payments	means regulatory tax allowance less opening deferred tax plus closing deferred tax
Term credit spread difference	has the meaning given in the IM determination
Term credit spread differential allowance	has the meaning given in the IM determination
Third party interference	means all unplanned customer interruptions resulting from external contractors or members of the public, includes Dig-In, Overhead Contact, Vandalism, and Vehicle Damage.
Total attributable to regulated service	means the sum of directly attributable costs or assets and not directly attributable costs or assets that are attributable to electricity distribution services
Total book value of interest bearing debt	means the sum of book value of qualifying debt and non-qualifying debt at the date of the latest general purpose financial statements
Total closing RAB value	means- (a) in relation to the unallocated RAB, the sum of unallocated closing RAB values as determined in accordance with the IM determination; (b) in relation to the RAB, the sum of closing RAB values as determined in accordance with the IM determination
Total depreciation	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation as determined in accordance with the IM determination; (b) in relation to the RAB or regulatory profit, the sum of depreciation as determined in accordance with the IM determination
Total distribution transformer capacity	means the sum of the distribution transformer capacity (EDB owned) and the distribution transformer capacity (Non-EDB owned), expressed in MVA
Total energy delivered to ICPs	means the volume of electricity supplied through the EDB’s network to connection points, as measured at connection points, in GWh

Total opening RAB value subject to revaluation	means- (a) in relation to the unallocated RAB, total opening RAB values - unallocated RAB less opening value of fully depreciated, disposed and lost assets - unallocated RAB; (b) in relation to the RAB, total opening RAB values - RAB less opening value of fully depreciated, disposed and lost assets - RAB
Total regulatory income	means- (a) in relation to the Report on Regulatory Profit, the sum of line charge revenue, gains / (losses) on asset disposals and other regulated income (b) in relation to the Report on Related Party Transactions, the income from related party transactions after applying clause 2.3.6 of this determination
Total revaluations	means- (a) in relation to the unallocated RAB, the sum of unallocated revaluation as determined in accordance with the IM determination; (b) in relation to the RAB or regulatory profit, the sum of revaluations as determined in accordance with the IM determination
Total value of transactions	means the total value of the related party transactions with a related party, as determined in accordance with clause 2.3.6 of this determination and clauses 2.2.11(1)(g) and 2.2.11(5) of the IM determination
Transfer capacity	means the additional capacity, transferable within the time frame of the EDB's security standards, that is available to augment the capacity of the existing zone substation by switching circuits, via the distribution feeder network, that may supply the existing zone substation from other zone substations. Expressed in units of MVA.
Transformer capacity	means the total capacity (in kVA) of the following transformers on the network: (a) those transformers with secondary voltages of 230 volts or 400 volts (using the lower continuous rating if a dual rating is applied); and (b) any other transformers operating at voltages higher than those specified in paragraph (a) and through which electricity consumers are directly supplied with electricity (using the lower continuous rating if a dual rating is applied)
Transmission asset wash-up allowance	means- (a) for an EDB subject to a customised price-quality path commencing after 20 December 2016, a cost specified in clause 3.1.3(1)(q) of the IM determination; or (b) for an EDB subject to a default price-quality path, a cost specified in clause 3.1.3(1)(r) of the IM determination <i>Guidance note: (refer to clause 1.4.1(98)-(109)) Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clause 3.1.3(1)(q) of the IM determination.</i>
Transmission line charge revenue	means line charge revenue relating to transmission charges

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Transpower	has the meaning as defined in s 54B of the Act
Transpower new investment contract charges	means a cost specified in clause 3.1.3(1)(c) of the IM determination
Unallocated overhead lines	means a circuit, or a section of a circuit, installed in an area that is not an urban, rural, remote or rugged area
Underground	means the total length of all circuits that are installed as underground cables, expressed in km
Unknown	means all unplanned interruptions where the cause is not known
Urban	means a circuit, or a section of a circuit, installed in an area where the average HV span length is approximately 40 - 50 metres, located in urbanised locations but does not include those circuits located in rural, remote and/or rugged areas
Utilisation of Installed Firm Capacity %	means the current peak load expressed as a percentage of the Installed Firm Capacity
Utilisation of Installed Firm Capacity + 5yrs %	means the Utilisation of Installed Firm Capacity forecast by the EDB at the end of the year that is 5 years after the disclosure year, expressed in MVA
Utilised tax losses	has the meaning given in paragraph (a) of the defined term in the IM determination
Vegetation	means all unplanned customer interruptions resulting from vegetation contact, includes debris, grass and tree contact.
WACC rate used to set regulatory price path	<p>means-</p> <p>(a) in relation to an EDB subject to a section 52P determination setting out the requirements of a default price-quality path, the WACC estimate determined in accordance with clause 4.4.7(1) of the IM determination for the DPP regulatory period the disclosure year falls within; <i>Guidance note: (refer to clause 1.4.1(98)-(109))</i> <i>Clause 1.1.2(4) of the IM determination sets out when various amendments to the IM determination apply as a result of our 2016 input methodologies review. Changes to Part 3 and Part 4 of the IM determination only apply for a DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)). Accordingly, for an EDB subject to a default price-quality path after 1 April 2020, see clause 4.4.5(1)-(2) of the IM determination.</i></p> <p>(b) in relation to an EDB subject to an amendment to a section 52P determination setting out the requirements of a CPP, the WACC estimate used to set that CPP determination for the disclosure year; and</p> <p>(c) in relation to an EDB not subject to price-quality regulation, 'n/a'</p>

Wash-up costs	means the sum of- (a) input methodology claw-back; (b) CPP application recoverable costs; (c) catastrophic event allowance; (d) capex wash-up adjustment; (e) transmission asset wash-up allowance; (f) 2013-15 NPV wash-up allowance; (g) reconsideration event allowance; and (h) other wash-ups
Weighted average expected total asset life	means the weighted average expected total asset life of assets calculated by using the opening RAB values as weights where opening RAB value has the meaning given in the IM determination
Weighted average remaining asset life	means the weighted average remaining asset life of assets calculated by using the opening RAB values as weights where remaining asset life and opening RAB value has the meaning given in the IM determination
Wildlife	means all unplanned customer interruptions resulting from wildlife contact - includes birds, possums, vermin, cats etc.
Year-end ROI – comparable to a post tax WACC	means the year-end ROI comparable to the vanilla WACC less the product of the cost of debt assumption(%), the leverage and the corporate tax rate
Year-end ROI – comparable to a vanilla WACC	means: $q = \frac{a - (b + c)}{d + (e \times .5)}$ where: a = Regulatory profit / (loss) including financial incentives and wash-ups b = Financial incentives c = Wash-ups d = Opening RIV e = Assets commissioned
Zone substation transformer capacity	means the sum of the capacities of all zone substation transformers that are part of the network

Schedule 17 Certification for Year-beginning Disclosures

Clause 2.9.1

We, [insert full names], being directors of [name of EDB] certify that, having made all reasonable enquiry, to the best of our knowledge:

- a) the following attached information of [name of EDB] prepared for the purposes of clauses 2.4.1, 2.6.1, 2.6.3, 2.6.6 and 2.7.2 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination.
- b) The prospective financial or non-financial information included in the attached information has been measured on a basis consistent with regulatory requirements or recognised industry standards.
- c) The forecasts in Schedules 11a, 11b, 12a, 12b, 12c and 12d are based on objective and reasonable assumptions which both align with [name of EDB]'s corporate vision and strategy and are documented in retained records.

[Signatures of 2 directors]

[Date]

Schedule 18 Certification for ~~Year-end~~ Disclosures

Clauses 2.9.2 and 2.9.5

We, [insert full names], being directors of [name of EDB] certify that, having made all reasonable enquiry, to the best of our knowledge-

- a) the information prepared for the purposes of clauses 2.3.1, 2.3.2, 2.4.21, 2.4.22, 2.5.1, 2.5.2, [if the EDB is Aurora Energy Limited, insert '2.5.3, 2.5.4(1) to (3), 2.5.5(1), 2.5.6(2),'] and 2.7.1 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination; and
- b) the historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 9e, 10, and 14 has been properly extracted from the [name of EDB]'s accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained [and if not, what records and systems were used].
- c) * [In respect of information concerning assets, costs and revenues valued or disclosed in accordance with clause 2.3.6 of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5) of the Electricity Distribution Services Input Methodologies Determination 2012, we are satisfied that-
 - i. the costs and values of assets or goods or services acquired from a related party comply, in all material respects, with clauses 2.3.6(1) and 2.3.6(3) of the Electricity Distribution Information Disclosure Determination 2012 and clauses 2.2.11(1)(g) and 2.2.11(5)(a)-2.2.11(5)(b) of the Electricity Distribution Services Input Methodologies Determination 2012; and
 - ii. the value of assets or goods or services sold or supplied to a related party comply, in all material respects, with clause 2.3.6(2) of the Electricity Distribution Information Disclosure Determination 2012.]
- d) * [in respect of the application of OVABAA in the allocation of costs or assets in accordance with clause 2.1.4 of the Electricity Distribution Services Input Methodologies Determination 2012, we are satisfied that the unregulated service would be unduly deterred if the OVABAA allocation was less than that disclosed.]

* Delete if inapplicable

[Signatures of 2 directors]

[Date]