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Electricity Distribution Information Disclosure Amendments Determination 2017

[2017] NZCC 33

The Commission: Sue Begg

Dr Stephen Gale Dr Mark Berry Dr Jill Walker

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Determination history		
Determination date	Decision number	Determination name
1 October 2012	[2012] NZCC 22	Electricity Distribution Information Disclosure
		Determination
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

Commerce Commission
Wellington, New Zealand

ELECTRICITY DISTRIBUTION INFORMATION DISCLOSURE AMENDMENTS DETERMINATION 2017

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

PART 1 GENERAL PROVISIONS

1.1 PRINCIPAL DETERMINATION AMENDED

- 1.1.1 This amendments determination amends the **principal determination**.
- 1.1.2 Amendments to the body of the **principal determination** are marked as track changes in this amendments determination.
- 1.1.3 Schedules 2, 5b, 5c, 5f, 5g, 9b, 10 and 12a of this amendments determination replace Schedules 2, 5b, 5c, 5f, 5g, 9b, 10 and 12a of the **principal determination**.

1.2 COMMENCEMENT DATE

- 1.2.1 This amendments determination comes into force on 21 December 2017.
- 1.2.2 Amendments to the body of the **principal determination** and Schedules 2, 5b, 5c, 5f, 5g, 9b, 10 and 12a of the **principal determination** apply 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 section 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;
 - (4) A word which denotes the singular also denotes the plural and vice versa;

- (5) An obligation to do something is deemed to include an obligation to cause that thing to be done;
- (6) Financial items must be measured and disclosed in accordance with **GAAP** unless otherwise required by this determination or the **IM determination**;
- (7) Non-financial items must be measured and disclosed in accordance with standard industry practice unless otherwise required in this determination;
- (8) 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) where any material referred to in guidance notes is inconsistent with this determination, this determination prevails; and
- (10) 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(8)-(9))
Commerce Commission "Input methodologies review final decision – Related party transactions – Final decision and determinations quidance" (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-

^

<u>ABAA</u>	has the meaning given in the IM determination
<u>ACAM</u>	has the meaning given in the IM determination
Act	means the Commerce Act 1986
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 2.1.45 of the IM determination

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>Arm's-length transaction</u> <u>has the meaning given in the IM determination</u>

Guidance note: (refer to clause 1.4.1(8)-

<u>(9))</u>

This definition used in the IM

determination is identical to the definition

in **ISA (NZ) 550**.

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

q

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-
 - 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 <u>required to be</u> disclosed under any of<u>-</u>

- (a) clauses 2.3.1 and 2.3.2 of this determination;
- (b) the **SAIDI** and **SAIFI** information disclosed under clause 2.5.1;
- (c) the **related party transactions** information disclosed under clauses 2.3.8, 2.3.10-2.3.12; and
- (a)(d) the explanatory notes disclosed in boxes 1 to 112 of Schedule 14 under clause 2.7

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C

Capital contributions

Capital expenditure

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

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-
 - 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

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; and

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

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
- (b) 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; or
- (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; or
- (c) hold more than one-half of the issued

capital of the EDB; or

(d) are entitled to receive more than onehalf 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

CPP

has the meaning given in the IM determination

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

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.
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 registers
	(a) construction and maintenance
	(b) network management
	(b) network management
Electricity distribution services	 (b) network management (c) vegetation management (d) connection and disconnection services
Electricity distribution services Electricity lines services	 (b) network management (c) vegetation management (d) connection and disconnection services (e) load control
·	 (b) network management (c) vegetation management (d) connection and disconnection services (e) load control has the meaning given in the IM determination

Error

means incorrect information disclosed in accordance with the **principal determination** as amended at the time of the disclosure, in such a way that-

- (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-

- (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 (cb) or, in respect of related party transactions, meaning (be) as defined set out 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

Financial distribution

means-

- (a) discretionary discounts and customer rebates;
- (b) dividend or equivalent owner payment to a community trust, customer trust or cooperative 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

GDB

has the meaning given in the Gas Distribution
Services Input Methodologies Determination
2012 [2012] NZCC 27, including, for the
avoidance of doubt, any amendment in effect
at the time this determination comes into force

GTB

has the meaning given in the Gas Transmission Services Input Methodologies Determination 2012 [2012] NZCC 28, including, for the avoidance of doubt, any amendment in effect at the time this determination comes into force

GWh means gigawatt-hour

H

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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 directedby any person who has provided anysuch 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

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

<u>Guidance note: (refer to clause 1.4.1(8)-</u> (9))

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.

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Κ

km means kilometre

kV means kilovolt

kVA means kilovolt ampere

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

Μ

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**

Ν

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

Not directly attributable means

(a) in relation to operating costs, operating

costs that are not directly attributable;
(b) in relation to regulated service asset
values, regulated service asset values that
are not directly attributable

0

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 in relation to expenditure, means expenditure environment on assets where the primary driver is to

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 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

OVABAA has the meaning given in the IM determination

P

Person has the same meaning as defined in s 2 of the

Act

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**

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.

system growth.

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

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 *Electricity Distribution Information Disclosure Determination 2012* [2012] NZCC 22, 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

Guidance note: (refer to clause 1.4.1(8)-

<u>(9))</u>

Commerce Commission "Input methodologies review final decision – Final decision and determinations quidance" (21 December 2017), Attachment A notes examples of related parties.

Related party transaction

has the meaning given in the

IM determination means a transaction with a related party

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

<u>Guidance note: (refer to clause 1.4.1(8)-(9))</u>

Commerce Commission "Input methodologies review final decision – Related party transactions – Final decision and determinations quidance" (21 December 2017), Attachment D notes the process by which materials are

<u>incorporated by reference in this</u> 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**

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

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

Sub-network

(g) the **electricity distribution services** are provided to fewer than 2000 **ICP**s.

Subtransmission

means-

- (a) in relation to **AMP**s, 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 subtransmission, 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) 22kV, if that voltage is used within the network in the role or manner of a subtransmission 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);
- (I) 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
- (u) **network** related research and development

Т

Target revenue

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

Total opening RAB value

means-

- (v) in relation to the unallocated RAB, the sum of unallocated opening RAB values as determined in accordance with the IM determination:
- (w) 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** rollforward, 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**

٧

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 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

Value of vested assets

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**

Vegetation management

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-

(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

X

¥

Ζ

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 <u>section_clauses</u> 2.11.1 and 2.13, from the **commencement date** every **EDB** 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;
 - (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;
- (I) 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 has not directly attributable costs

- A description of the <u>operating costs</u> and <u>asset values that are</u> not <u>directly</u> attributable <u>costs or assets</u>;
- (2) The allocation methodology types used to allocate the <u>operating costs and</u> <u>asset values that are</u> not <u>directly attributable costs or assets</u>;
- (3) Where more than one allocation methodology type is used, the percentage of not directly attributable <u>operating</u> costs or asset <u>value</u>s 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 <u>used</u> are <u>causal allocators</u>, **proxy asset**allocators <u>or</u>, **proxy cost allocators** or <u>causal allocators</u>, as ABAA,

 OVABAA, proxy assets allocator, proxy cost allocator and causal are defined in the **IM determination**; 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**<u>asset allocator or proxy cost allocator</u>; and
- (4)(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**.and
- (5) The allocators used and the rationale for using each allocator.

Related party transactions

- 2.3.6 For the purpose of clause 2.3.1, the <u>valuecost</u> of any good or service, good, or asset acquired infrom 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;
 - 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(8)-(9))

Commerce Commission "Input methodologies review final decision – Related party transactions – Final decision and determinations quidance" (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(8)-(9))

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

- 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.
- (1) For the cost of a **commissioned** asset or a component of a **commissioned** asset acquired from a **related party**, as determined in accordance with clauses 2.2.11(1)(e)–(g) of the **IM determination** for services or goods, other than assets, acquired from a **related party**, one of the following-
 - (a) at the directly attributable cost incurred by the related party in accordance with the cost allocation process set out in clause 2.1.1 of the IM determination, provided that the cost incurred by the related party in providing the service to the EDB-
 - (i) is fair and reasonable to the EDB, and
 - (ii) is substantially the same as the cost incurred by the **related**party in providing the same type of services to third parties; or
 - (b) for electrical contracting services to maintain or develop the network, at the directly attributable cost incurred by the related party, determined in accordance with the cost allocation process set out in clause 2.1.1 of the IM determination, plus a mark-up which does not exceed 17.2%; or
 - (c) the price paid by the EDB, where-
 - (i) at least 50% of the **related party's** sales of services or, goods, are to third parties, and third parties may purchase the same or similar services or, goods, from the **related party** on substantially the same terms and conditions, including price; or
 - (ii) that price is substantially the same as the price paid for the same or substantially similar services or goods (including any adjustments for inflation using CPI or an appropriate input price index) on substantially the same terms and conditions in the preceding 3 disclosure years from a party other than a related party; or
 - (d) at the price paid by the EDB, where-
 - (i) the price paid for all services, goods, and assets acquired from that related party is less than 1% of the EDB's total revenue from the regulated service for that year; and

- (ii) the total price paid for all **related party transactions** is less than 5% of the **EDB**'s total revenue from the **regulated service**; or
- (e) at the price paid by the **EDB** to the **related party** following a competitive tender process, provided that-
 - (i) the price is no more than 5% higher than the price of the lowest conforming tender received;
 - (ii) all relevant information material to consideration of a proposal was provided to third parties, or made available upon request;
 - (iii) at least one other qualifying proposal was received;
 - (iv) the final agreement for the provision of the services or goods by the related party does not include any special contract terms;
 - (v) the **EDB** retains for a period of 7 years following the closing date of tender proposals a **record** of the tender and tender process, including request for information and/or proposal, the criteria used for the assessment of proposals, reasons for acceptance or rejection of proposals, and all proposals and requests for information on the tender for the purposes of making proposals; and
- (f) the price paid by the EDB, provided-
 - (i) the price cannot otherwise be determined under subclauses (a) to (e); and
 - (ii) no fewer than 2 directors of the EDB provide a written certification that they are satisfied that the price or prices paid for all services and, goods, determined in accordance with this paragraph reflect the price or prices that would be paid in an arm's-length transaction; or
- (g) nil.

- 2.3.7 For the purpose of clause 2.3.1, the price received for any sale or supply of services, goods, or assets to a **related party**, must be one of the following-
 - (1) If the related party is another EDB, a GDB, or GTB required to publicly disclose the price paid or cost incurred in accordance with another Commission determination, then the price received must be that disclosed by the related party; or
 - (2) If the price received cannot be determined under subclause (1), then-
 - (a) at the price received from the related party, where the EDB makes at least 50%-of its revenue from the provision of similar services to unrelated parties, and the price charged by the EDB to the related party is substantially the same as the price charged to third parties for similar services, goods, or assets on substantially the same terms and conditions; or
 - (b) at the **price** received from the **related party**, provided that no fewer than 2 directors of the **EDB** provide a written certification that they are satisfied that the **prices** received for all services, goods, or assets provided to **related parties** reflect the **price** or **prices** that would be received in an arm's length transaction; or
 - (c) at the cost incurred by the **EDB** in providing the service, good, or asset.

Information on capital expenditure projects

- 2.3.82.3.17 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

2.3.92.3.18 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;
 - 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 nonstandard 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**.

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

- 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.

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** commencing with the **disclosure year** 2014, 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 Attachment A to this determination;
 - (d) contains the information set out in the schedules described in clause 2.6.6;
 - (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 Subject to clause 2.13.1, e 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 subclauses 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 Subject to clause 2.13.4, bBefore 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) pProcure an assurance report by an independent auditor in respect of that audited disclosure information, that is prepared in accordance with SAE 3100 tandard on Assurance Engagements 3100 Compliance Engagements (SAE 3100) and International Standard on Assurance Engagements 3000 (ISAE (NZ) 3000) or their successor standards, 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 tandard on Assurance Engagements 3100 Compliance Engagements (SAE 3100) and International Standard on Assurance Engagements 3000 (ISAE (NZ) 3000) or their successor standards; and
 - (ii) the work done by the **independent auditor**; and
 - (iii) the scope and limitations of the assurance engagement; and
 - (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; and
 - (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; and

- (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; and
- 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
- (c)(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(8)-(9))
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.

- Ppublicly 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

<u>EDB publicly discloses</u> the <u>audited disclosure information</u> for the <u>subsequent</u> 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).

- 2.8.22.8.6 Subject to clause 2.8.72.8.3, 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**.
- 2.8.32.8.7 In applying clause 2.8.62.8.2, 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 Subject to clause 2.13.3, wwhere 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.

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 Subject to clause 2.13.6, wWithin 7 months of identifying a material error, an EDB must-
 - (1) publicly disclose-
 - 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**;
 - 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 2.8.62.8.2.
 - (2) disclose the information outlined in subclause (1) when **publicly disclosing** the **original disclosure** in accordance with clause 2.10.1.

- 2.12.2 Subject to clause 2.13.6, ilf 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.

TRANSITIONAL PROVISIONS

For the **disclosure year** 2016, in complying with the requirements set out in clause 2.6.6, every **EDB** must comply with the requirements specified in subclauses 2.6.5(1), 2.6.5(2) and 2.6.5(4) of the **principal determination** (in the form of the reports set out therein), instead of the requirements set out in clause 2.6.6 of this determination.

When completing the reports specified in subclauses 2.6.5(1) and 2.6.5(2) of the **principal determination**, every **EDB** must use definitions from clause 1.4.3 and Schedule 16 of the **principal determination**.

Before the start of **disclosure year** 2016 or within five months of the start of **disclosure year** 2016, every **EDB** must **publicly disclose** the completed reports specified in subclauses 2.6.5(1) and 2.6.5(2) of the **principal determination** (in the form of the reports set out therein).

For the **disclosure year** 2016, in complying with the requirements set out in clause 2.9.1, every **EDB** must comply with either the requirements specified in clause 2.9.1 of the **principal determination** (in the form of the certificate set out therein), or the requirements set out in clause 2.9.1 of this determination.

- 2.12.5 For the disclosure year 2016, in complying with the requirements set out in clause 2.7.2, every EDB must complete and publicly disclose the explanatory notes either before the start of disclosure year 2016, or within five months of the start of disclosure year 2016.
 - (1) If an EDB elects to complete the explanatory notes before the start of disclosure year 2016, the EDB must complete and publicly disclose either the explanatory notes specified in Schedule 14a of the principal determination or the explanatory notes specified in Schedule 14a of this determination.

- 2.12.6 For the disclosure year 2015 and disclosure year 2016, in completing the Report on Return on Investment set out in Schedule 2, every EDB must calculate the following CY-1 and CY-2 disclosures in accordance with this determination-
 - (1) ROI comparable to a post tax WACC reflecting all revenue earned;
 - (2) ROI comparable to a post tax WACC excluding revenue earned from financial incentives;
 - (3) ROI comparable to a post tax WACC excluding revenue earned from financial incentives and wash-ups;
 - (4) ROI comparable to a vanilla WACC reflecting all revenue earned;
 - (5) ROI comparable to a vanilla WACC excluding revenue earned from financial incentives; and
 - (6) ROI comparable to a vanilla WACC excluding revenue earned from financial incentives and wash-ups.
- 2.12.7 In complying with clauses 2.12.1 and 2.12.2 before 1 September 2015, **EDB**s must publicly disclose the information described in clause 2.12.1 either before 1 September 2015 or within 7 months of identifying the material or non-material error.

Sue Begg, Deputy Chair

Dated at Wellington this 21st day of December 2017

COMMERCE COMMISSION

Wellington, New Zealand

Attachment A Asset Management Plans

This attachment sets out the mandatory disclosure requirements with respect to **AMP**s. 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 **AMP**s. The commentary has been prepared on the basis that **EDB**s 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 **AMP**s 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;
- 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. **AMP**s 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, though **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. **AMP**s 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. **AMP**s 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.

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

 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 (In) 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 (In) of each daily **SAIFI value** in the non-zero dataset;
- 13. β_{SAIFI} is the standard deviation of the natural logarithm (In) 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 $B_{\it SAIDI}$ -
- 15. replace the daily **SAIDI** value with B_{SAIDI} ; and

Electricity Distribution Information Disclosure Amendments Determination 2017

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16. replace the daily **SAIFI value** with $B_{\it SAIFI}$ if the daily **SAIFI value** for that day exceeds $B_{\it SAIFI}$.

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.

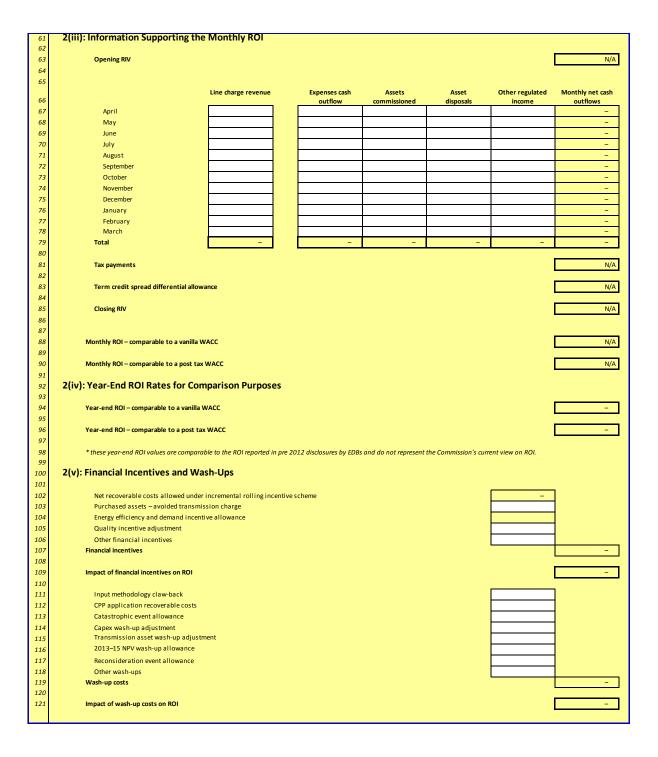
Schedule 1

Analytical Ratios

		(Company Name							
			For Year Ended							
SC	HEDULE 1: ANALYTICAL RATIOS									
	schedule calculates expenditure, revenue and service ratios from the information									
	nterpreted with care. The Commerce Commission will publish a summary and ar				termination. This w	ill include information				
	losed in accordance with this and other schedules, and information disclosed un information is part of audited disclosure information (as defined in section 1.4 or				enort required by s	action 2.9				
		or the 1D determinati	orry, aria so is subje	ct to the assurance i	eport required by s	ection 2.8.				
sch re										
7	1(i): Expenditure metrics									
	1(1). Experience metries			Expenditure per		Expenditure per MVA				
		Expenditure per	Expenditure per	MW maximum		of capacity from EDB-				
		GWh energy	average no. of	coincident system	Expenditure per	owned distribution				
		delivered to ICPs	ICPs	demand	km circuit length	transformers				
8		(\$/GWh)	(\$/ICP)	(\$/MW)	(\$/km)	(\$/MVA)				
9	Operational expenditure	_	-	-		-				
10	Network	_	-	-		-				
11	Non-network		-	-		-				
12			_							
13	Expenditure on assets	_		-		-				
14	Network	_	-	-		_				
15	Non-network	_	-	-	_	_				
16										
17	7 1(ii): Revenue metrics									
		Revenue per GWh	Revenue per							
		energy delivered	average no. of							
10		to ICPs	ICPs							
18	Total consumer line charge revenue			1						
19	Total consumer line charge revenue	to ICPs	ICPs							
19 20	Standard consumer line charge revenue	to ICPs (\$/GWh)	ICPs (\$/ICP) - -							
19 20 21		to ICPs (\$/GWh)	ICPs (\$/ICP)							
19 20 21 22	Standard consumer line charge revenue Non-standard consumer line charge revenue	to ICPs (\$/GWh)	ICPs (\$/ICP) - -							
19 20 21 22 23	Standard consumer line charge revenue	to ICPs (\$/GWh)	ICPs (\$/ICP) - -							
19 20 21 22 23 24	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures	to ICPs (\$/GWh)	ICPs (\$/ICP)	lent system demanda	ner km of circuit lei	nath (for supply) (kW/km)				
19 20 21 22 23 24 25	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density	to ICPs (\$/GWh)	ICPs (\$/ICP) Maximum coincide			ngth (for supply) (kW/km) r supply) (MWh/km)				
19 20 21 22 23 24 25 26	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density	to ICPs (\$/GWh)	ICPs (\$/ICP) Maximum coincid Total energy deliv	vered to ICPs per km	of circuit length (fo	r supply) (MWh/km)				
19 20 21 22 23 24 25 26 27	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density	to ICPs (\$/GWh)	ICPs (\$/ICP) Maximum coincid Total energy delin Average number	vered to ICPs per km of ICPs per km of circ	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density	to ICPs (\$/GWh)	ICPs (\$/ICP) Maximum coincid Total energy delin Average number	vered to ICPs per km	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density	to ICPs (\$/GWh)	ICPs (\$/ICP) Maximum coincid Total energy delin Average number	vered to ICPs per km of ICPs per km of circ	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 29	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity	to ICPs (\$/GWh)	ICPs (\$/ICP) Maximum coincid Total energy delin Average number	vered to ICPs per km of ICPs per km of circ	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 29 30	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity	to ICPs (\$/GWh)	ICPs (\$/ICP) Maximum coincid Total energy deliv Average number Total energy deliv	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 29 30 31	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income	to ICPs (\$/GWh)	ICPs (\$/ICP) Maximum coincid Total energy deliv Average number Total energy deliv	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 29 30 31 32	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure	to ICPs (\$/GWh)	ICPs (\$/ICP)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure Pass-through and recoverable costs excluding financial incention	to ICPs (\$/GWh)	Maximum coincid Total energy delin (\$000)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure Pass-through and recoverable costs excluding financial incenting Total depreciation	to ICPs (\$/GWh)	ICPs (\$/ICP)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure Pass-through and recoverable costs excluding financial incention Total depreciation Total revaluations	to ICPs (\$/GWh)	ICPs (\$/ICP)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 30 31 32 33 34 35 36 36	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure Pass-through and recoverable costs excluding financial incention Total depreciation Total revaluations Regulatory tax allowance	to ICPs (\$/GWh)	ICPs (\$/ICP)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
20 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure Pass-through and recoverable costs excluding financial incention Total depreciation Total revaluations Regulatory tax allowance Regulatory profit/(loss) including financial incentives and wash	to ICPs (\$/GWh)	ICPs (\$/ICP)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
20 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure Pass-through and recoverable costs excluding financial incention Total depreciation Total revaluations Regulatory tax allowance Regulatory profit/(loss) including financial incentives and wash	to ICPs (\$/GWh)	ICPs (\$/ICP)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 30 31 32 33 34 35 36 37 38 39	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure Pass-through and recoverable costs excluding financial incention Total depreciation Total revaluations Regulatory tax allowance Regulatory profit/(loss) including financial incentives and wash Total regulatory income	to ICPs (\$/GWh)	ICPs (\$/ICP)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (for cuit length (for supp	r supply) (MWh/km) ly) (ICPs/km)				
19 20 21 22 23 24 25 26 27 28 30 31 32 33 34 35 36 37 38 39 40 40	Standard consumer line charge revenue Non-standard consumer line charge revenue 1(iii): Service intensity measures Demand density Volume density Connection point density Energy intensity 1(iv): Composition of regulatory income Operational expenditure Pass-through and recoverable costs excluding financial incention Total depreciation Total revaluations Regulatory tax allowance Regulatory profit/(loss) including financial incentives and wash Total regulatory income	to ICPs (\$/GWh)	ICPs (\$/ICP)	vered to ICPs per km of ICPs per km of circ vered to ICPs per ave % of revenue	of circuit length (fo. cuit length (for supp rage number of ICP.	r supply) (MWh/km) ly) (ICPs/km)				

Schedule 2 Report on Return on Investment

		Company Name			
	· ·				
	HEDULE 2: REPORT ON RETURN ON INVESTMENT	For Year Ended			
	schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Com based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB ma				
2(iii)).			,	,
	s must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes). Information is part of audited disclosure information (as defined in section 1.4 of the ID determination), a	id so is subject to the assu	rance report re	aguired by section 2.5	2
		ia so is subject to the assu	rance report re	equired by section 2.6	·.
sch ref					
7	2(i): Return on Investment		CY-2	CY-1	Current Year CY
8					
9	ROI – comparable to a post tax WACC		%	%	%
10					-
11					-
12 13					_
14					
15					
16					
17					
18					
19	•		1		
20 21					-
22					_
23					
24					
25					
26	Mid-point estimate of vanilla WACC				
27					
28					
29				•	
30			Í	(\$000)	
	2(ii): Information Supporting the ROI		ı		
30	2(ii): Information Supporting the ROI		-		
30 31	2(ii): Information Supporting the ROI Total opening RAB value		-		
30 31 32 33 34	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV		-		l
30 31 32 33 34 35	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV		-		l
30 31 32 33 34 35 36	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue		<u>-</u> -		
30 31 32 33 34 35 36 37	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue		-		
30 31 32 33 34 35 36 37 38	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow		-		
30 31 32 33 34 35 36 37	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned		- - - 		l I
30 31 32 33 34 35 36 37 38 39	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals		- - - 		 -
30 31 32 33 34 35 36 37 38 39 40	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments		- - -		 -
30 31 32 33 34 35 36 37 38 39 40 41 42 43	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows		- - - -		 - -
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows		- - - -		 - -
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance		- - - -		
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance		- - - -		 - - -
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value		- - - -		
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation		- - - -		
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment		- - - - - - - - -		
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV		- - - - - - - - -		
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 51	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV		- - - - - - - - -		
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 50 51 52 53	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC		- - - - - - - - -		 -
30 31 32 33 34 35 36 37 38 40 41 42 43 44 45 50 51 52 53	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC		- - - - - - - - -		
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 50 51 52 53 54 55	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC Leverage (%)		- - - - - - - - -		42%
30 31 32 33 34 35 36 37 38 40 41 42 43 44 45 46 47 48 49 50 51 52 53 53 54 55 56	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC Leverage (%) Cost of debt assumption (%)		- - - - - - - - -		
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 50 51 52 53 54 55	2(ii): Information Supporting the ROI Total opening RAB value plus Opening deferred tax Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC Leverage (%) Cost of debt assumption (%) Corporate tax rate (%)		- - - - - - - - -		42%
30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	2(ii): Information Supporting the ROI Total opening RAB value Opening RIV Line charge revenue Expenses cash outflow add Assets commissioned less Asset disposals add Tax payments less Other regulated income Mid-year net cash outflows Term credit spread differential allowance Total closing RAB value less Adjustment resulting from asset allocation less Lost and found assets adjustment plus Closing deferred tax Closing RIV ROI – comparable to a vanilla WACC Leverage (%) Cost of debt assumption (%) Corporate tax rate (%)		- - - - - - - - -		42%



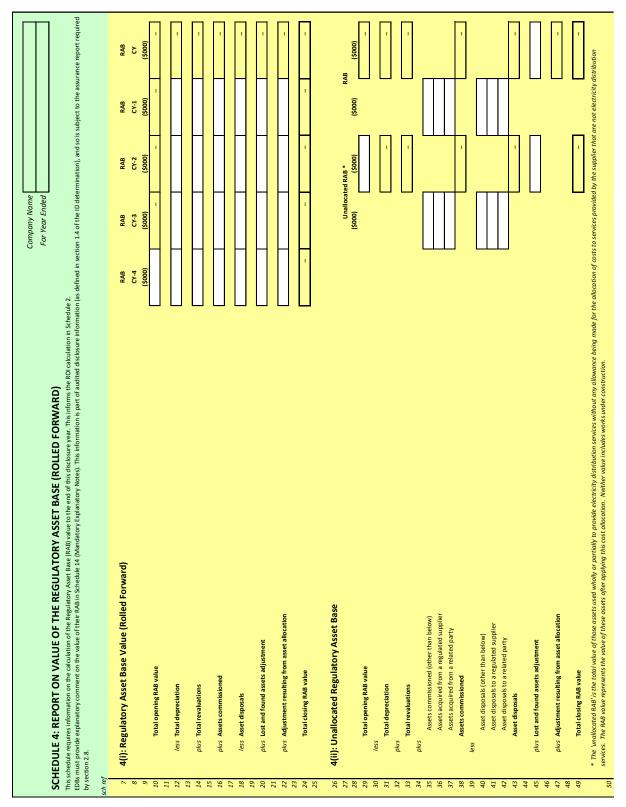
Schedule 3 Report on Regulatory Profit

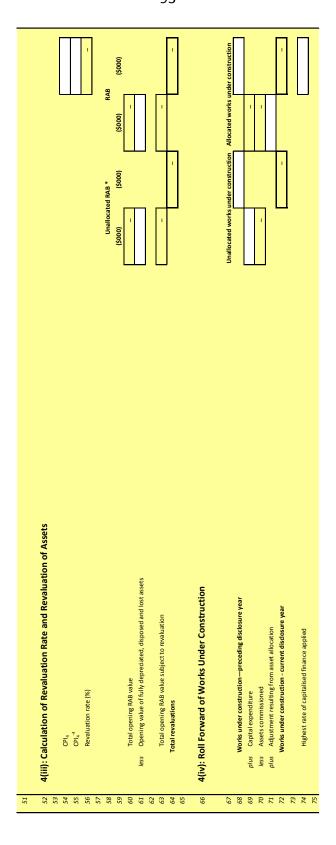
	Company Name	
	For Year Ended	
C.	CHEDULE 3: REPORT ON REGULATORY PROFIT	
	nis schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provid eir regulatory profit in Schedule 14 (Mandatory Explanatory Notes).	e explanatory comment on
	is 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 require	ed by section 2.8.
sch i	ref	
7	3(i): Regulatory Profit	(\$000)
8	Income	
9	Line charge revenue	-
10	plus Gains / (losses) on asset disposals	
11		
12		
13	Total regulatory income	-
14	Expenses	
15	less Operational expenditure	-
16		
17	· ·	-
18		
19		-
20		
21	·	
22		
23 24		
25		_
26		
27		-
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	· · · · · · · · · · · · · · · · · · ·	
42		
43		
44		
45		
46		

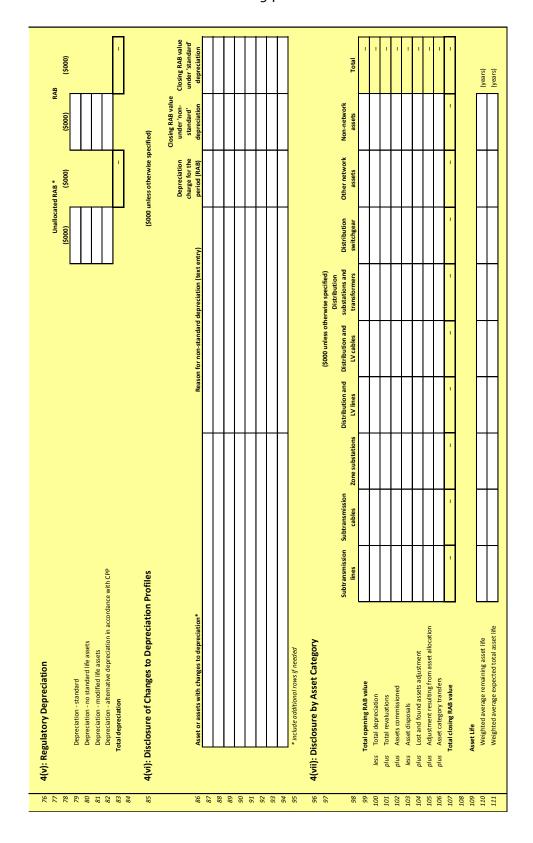
48	3(iii): Inc	emental Rolling Incentive Scheme	(\$6	000)
49			CY-1	CY
50				
51		ved controllable opex		
52	Act	al controllable opex		
53				
54	Inci	mental change in year		
55			Previous years'	Previous years' incremental change adjusted for inflation
56 57	CY-	[year]	change	Tor inflation
58	CY-	(year)		
59	CY-	[year]		
60	CY-	(year)		
61	CY-	[year]		
62		remental rolling incentive scheme		-
63				
64	Net r	coverable costs allowed under incremental rolling incentive scheme		-
65	3(iv): Mer	er and Acquisition Expenditure		
70				(\$000)
66	Me	ger and acquisition expenditure		
67				
68		de commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including re on 2.7, in Schedule 14 (Mandatory Explanatory Notes)	equired disclosures i	n accordance with
69	3(v): Othe	Disclosures		
70				(\$000)
71	Self	nsurance allowance		

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







Schedule 5a Report on Regulatory Tax Allowance

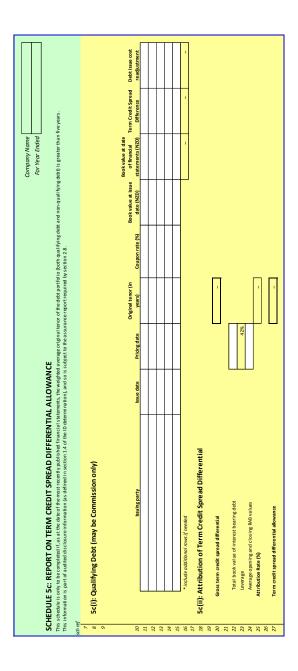
		Company Name	
		For Year Ended	
SC	HEDITIE I	a: REPORT ON REGULATORY TAX ALLOWANCE	
		res information on the calculation of the regulatory tax allowance. This information is used to calculate regula	atory profit/loss in Schedule 3 (regulatory
		provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Ex	
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 re	f		
Ī			
7	5a(i): R	egulatory Tax Allowance	(\$000)
8		Regulatory profit / (loss) before tax	_
9 10	plus	Income not included in regulatory profit / (loss) before tax but taxable	*
11	pius	Expenditure or loss in regulatory profit / (loss) before tax but taxable	*
12		Amortisation of initial differences in asset values	_
13		Amortisation of revaluations	-
14			-
15			
16	less	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 21		Notional deductible interest	-
22			
23		Regulatory taxable income	-
24			
25	less	Utilised tax losses	
26 27		Regulatory net taxable income	_
28		Corporate tax rate (%)	
29		Regulatory tax allowance	-
30			
31	* Worki	ngs to be provided in Schedule 14	
	F = /::\. F	S-1	
32	Sa(II): L	isclosure of Permanent Differences	
33		In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in S	schedule 5a(I).
34	5a(iii):	Amortisation of Initial Difference in Asset Values	(\$000)
35	, ,		
36		Opening unamortised initial differences in asset values	
37	less	Amortisation of initial differences in asset values	-
38	plus	Adjustment for unamortised initial differences in assets acquired	
39	less	Adjustment for unamortised initial differences in assets disposed	
40 41		Closing unamortised initial differences in asset values	
41		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		1
47		Opening Sun of two values without revaluations		
48		Adjusted depreciation		
49		Total depreciation	-	
50		Amortisation of revaluations		-
51	- () .			(4)
52	5a(v): I	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				ſ
60		Opening deferred tax		
61 62	plus	Tax effect of adjusted depreciation		
63	pius	Tax effect of adjusted depreciation		
64	less	Tax effect of tax depreciation	_	
65				
66	plus	Tax effect of other temporary differences*		
67				ı
68	less	Tax effect of amortisation of initial differences in asset values	_	
69	,			1
70 71	plus	Deferred tax balance relating to assets acquired in the disclosure year		
72	less	Deferred tax balance relating to assets disposed in the disclosure year	_	
73	1033	but an extended the continuence of the continuence	<u> </u>	
74	plus	Deferred tax cost allocation adjustment	-	
75				
76		Closing deferred tax		-
77	F=(:::\)	Disabassus of Tamanaum Differences		
78	5a(VII):	Disclosure of Temporary Differences In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule	Salvi) (Tay effect of	other temporary
79		differences).	Su(vi) (rux ejject oj t	other temporary
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 88	plus plus	Lost and found assets adjustment Adjustment resulting from asset allocation		
88 89	plus	Other adjustments to the RAB tax value		
90	pido	Closing sum of regulatory tax asset values		-

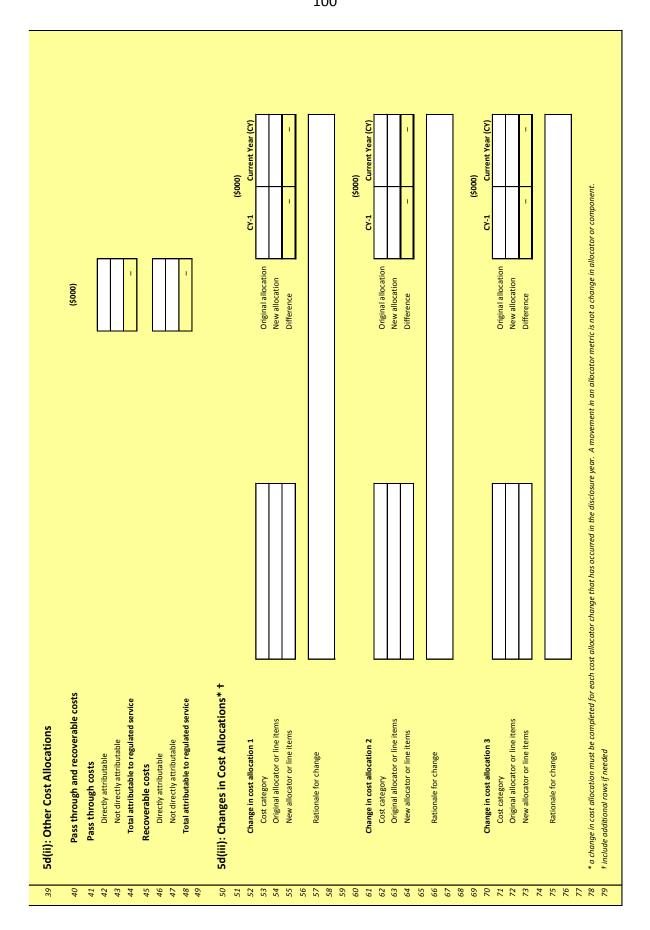
Schedule 5b Report on Related Party Transactions

	Company Name		
	For Year Ended		
SC	CHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS		
This	s schedule provides information on the valuation of related party transactions, in accordance with clause 2.3.6 of the	ID determination.	
This	s information is part of audited disclosure information (as defined in clause 1.4 of the ID determination), and so is sub-	ject to the assurance report required	by clause 2.8.
sch re	of the state of th		
7	5b(i): Summary—Related Party Transactions	(\$000)	(\$000)
8	Total regulatory income		
9			-
10	Market value of asset disposals		
11			ī
12	Service interruptions and emergencies		
13	Vegetation management	-	
14 15	Routine and corrective maintenance and inspection 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 26	Legislative and regulatory		
27	Other reliability, safety and environment Expenditure on non-network assets		_ 1
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		
36	5b(iii): Total Opex and Capex Related Party Transactions		
30	Soling. Total Open and capen helated raity transactions		
	Nature of opex or capex service		Total value of transactions
37	Name of related party provided		(\$000)
38	[Select one]		
39	[Select one]		
40	[Select one]		
41	[Select one]		
42	[Select one]		
43	[Selectione]		
44	[Selectione]		
45 46	[Select one] [Select one]		
47	[Selectione]		
48	[Select one]		
49	[Select one]		
50	[Select one]		
51	[Select one]		
52	[Select one]		
53	Total value of related party transactions		-
54	* include additional rows if needed		
55			

Schedule 5c Report on Term Credit Spread Differential Allowance



Report on Cost Allocations Schedule 5d OVABAA allocation increase (\$000s) This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule provides information 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. Total Non-electricity distribution services Value allocated (\$000s) For Year Ended Company Name distribution services Electricity Arm's length deduction Routine and corrective maintenance and inspection SCHEDULE 5d: REPORT ON COST ALLOCATIONS Operating costs not directly attributable System operations and network support Service interruptions and emergencies Operating costs directly attributable Total attributable to regulated service 5d(i): Operating Cost Allocations Asset replacement and renewal Operational expenditure /egetation management Not directly attributable **Business support** 8



Schedule 5e Report on Asset Allocations

		Company Name	
		For Year Ended	
SCI	HEDULE 5e: REPORT ON ASSET ALLOCA	TIONS	
		This information supports the calculation of the RAB value in Schedule 4.	hanne in annual all analyses. This information is much of sudday.
		Schedule 14 (Mandatory Explanatory Notes), including on the impact of any cl tion), and so is subject to the assurance report required by section 2.8.	langes in asset anocations. This information is part of audited
sch rej	•		
7	5e(i): Regulated Service Asset Values		
/	Jelij. Regulated Jel Vice Asset Values		
			Value allocated
8			(\$000s) Electricity distribution
9			services
10	Subtransmission lines		
11	Directly attributable		
12 13	Not directly attributable 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 20	Directly attributable		
21	Not directly attributable Total attributable to regulated service		-
22	Distribution and LV lines		
23	Directly attributable		
24	Not directly attributable		
25	Total attributable to regulated service		-
26 27	Distribution and LV cables Directly attributable		
28	Not directly attributable		
29	Total attributable to regulated service		-
30	Distribution substations and transformers		
31	Directly attributable		
32 33	Not directly attributable 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 40	Directly attributable Not directly attributable		
41	Total attributable to regulated service		_
42	Non-network assets		
43	Directly attributable		
44 45	Not directly attributable Total attributable to regulated service		
46	Total attributable to regulated service	· · · · · · · · · · · · · · · · · · ·	
47	Regulated service asset value directly attributable		-
48	Regulated service asset value not directly attributa	ole	-
49 50	Total closing RAB value		-
51	5e(ii): Changes in Asset Allocations* †		
52 53	Change in asset value allocation 1		(\$000) CY-1 Current Year (CY)
54	Asset category		CY-1 Current Year (CY) Original allocation
55	Original allocator or line items		New allocation
56	New allocator or line items		Difference – –
57 58	Rationale for change		
59	nationale for energe		
60			
61	Channel in country 1 11 11 2		(\$000)
62 63	Change in asset value allocation 2 Asset category		CY-1 Current Year (CY) Original allocation
64	Original allocator or line items		New allocation
65	New allocator or line items		Difference – –
66 67	Rationale for change		
68	notionale for change		
69			
70			(\$000)
71 72	Change in asset value allocation 3 Asset category		CY-1 Current Year (CY) Original allocation
73	Original allocator or line items		New allocation
74	New allocator or line items		Difference – –
75	20.16.4		
76 77	Rationale for change		
78			
79		locator or component change that has occurred in the disclosure year. A mov	ement in an allocator metric is not a change in allocator or component
80	† include additional rows if needed		
-			

Schedule 5f Report Supporting Cost Allocations

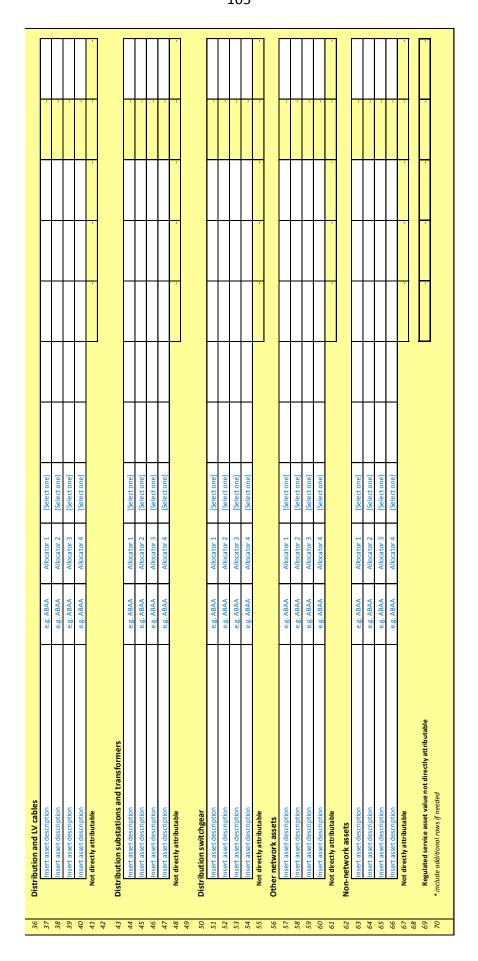
	In the change of additional control methodology applied in allocation methodology applied in allocation and so its uniques to the information is part of audited the Control and a subject to the control and so its subject to the assurance report required by section 2.8. This information is part of audited discious einformation in section 1.4 of the ID determination), and so its subject to the assurance report required by section 2.8. The Abbordior Phanticle 1.9 of the ID determination is defined in section 1.4 of the ID determination) and so its subject to the assurance report required by section 2.8.	etermination), and so	is subject to the ass	ibutable, to support the urance report require	he information provied by section 2.8. Allocator h	from provided in Schedule 5d (Kc. nn 2.8. Allocator Metric (%)	os tallocatons). Thi	s schedule is not required to bee	ured to be publicly d	is closed, butmust I	e disclos ed to the
	Line Item*	Allocation methodology type	Cost allocator	Allocator type	Electricity distribution services	Non-electricity distribution services	Arm's length deduction	Electricity distribution services	Non-electricity distribution services	Total	OVABAA allocation increase (\$000)
Serv	Service interruptions and emergencies										
	Ins ert cost description	eg. ABAA	Allocator 1	[Select one]							
	Ins ert cost description	eg. ABAA	Allocator 2	[Select one]							
_	Ins ert cost description	e.g. ABAA	Allocator 3	[Select one]							
_	Insert cost description	e.g. ABAA	Allocator 4	[Select one]							
Vege	Not directly attributable Vegetation management										
	Ins ert cost description	e.g. ABAA	Allocator 1	[Select one]							
	Ins ert cost description	eg. ABAA	Allocator 2	[Select one]							
	Ins ert cost description	eg. ABAA	Allocator 3	[Select one]							
	Ins ert cost description	eg. ABAA	Allocator 4	[Select one]							
N	Not directly attributable						·				
3	insert cost description	e.g. ABAA	Allocator 1	[Select one]							
	Insert cost description	e.g. ABAA	Allocator 2	[Select one]							
	Ins ert cost description	eg. ABAA	Allocator 3	[Select one]							
	Ins ert cost description	eg. ABAA	Allocator 4	[Select one]							
Nο	Not directly attributable Asset replacement and renewal						•				
	Ins ert cost description	e.g. ABAA	Allocator 1	[Select one]							
	Ins ert cost description	eg. ABAA	Allocator 2	[Select one]							
	Ins ert cost description	e.g. ABAA	Allocator 3	[Select one]							
	Ins ert cost description	e.g. ABAA	Allocator 4	[Select one]							
	the above the state of the stat										

	Insert cost description	e.g. ABAA	Allocator 1	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 2	[Select one]			
	Insert cost description	e.g. ABAA	Allocator 3	[Select one]			
	Insert cost description	e.g. ABAA	Allocator 4	[Select one]			
	Not directly attributable				-		
Bu	Business support						
	Insert cost description	e.g. ABAA	Allocator 1	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 2	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 3	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 4	[Select one]			-
	Not directly attributable					-	-
	Operating costs not directly attributable					'	-
Σ Δ	rass through and recoverable costs Pass through costs						
	Insert cost description	e.g. ABAA	Allocator 1	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 2	[Select one]			•
	Insert cost description	e.g. ABAA	Allocator 3	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 4	[Select one]			-
	Not directly attributable					-	-
æ	Recoverable costs						
	Insert cost description	e.g. ABAA	Allocator 1	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 2	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 3	[Select one]			-
	Insert cost description	e.g. ABAA	Allocator 4	[Select one]			-
	Not directly attributable						
. *							

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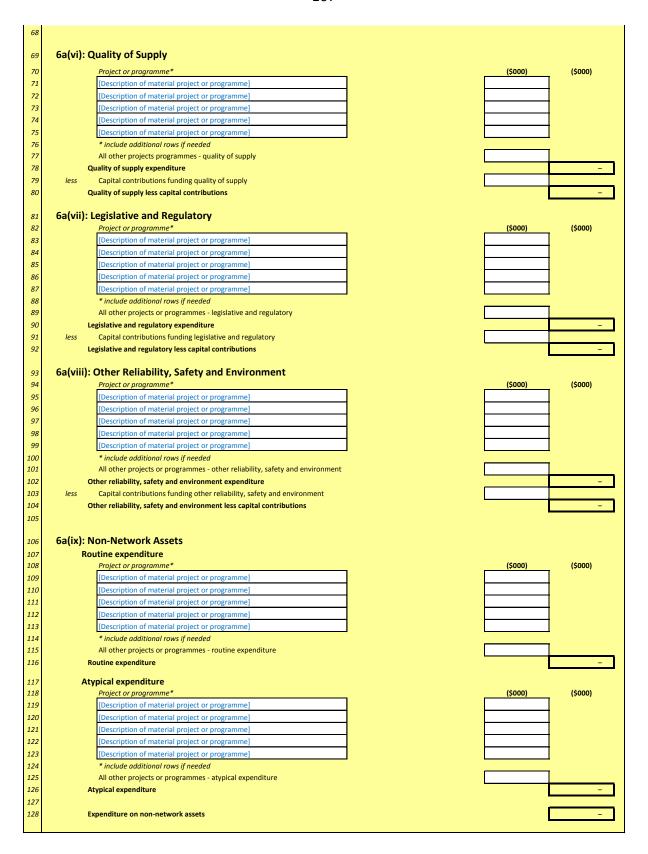
Schedule 5g Report Supporting Asset Allocations

			subject to the assur	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 7 7 7 7 7 7 7 7 7 7 7 7	l by s ection 2.8.						
	Line term*	Allocation methodology type	Allocator	Allocator type	Allocator I Electricity distribution services	Allocator Metric (%) ricity Non-electricity nution distribution services	Arm's length deduction	Value alloq Electricity distribution services	Value allocated (\$000) tricity Non-electricity distribution distribution vices	Total	OVABAA allocation increase (\$000)
Sub	Subtransmission lines										
	Insert ass et description	e.g. ABAA	Allocator 1	[Select one]							
	Insert ass et description	e.g. ABAA	Allocator 2	[Select one]							
	Insert ass et description	e-g. ABAA	Allocator 3	[Select one]							
	Insert ass et description	e-g. ABAA	Allocator 4	[Select one]							
-	Not directly attributable						•		•		
Sub	Subtransmission cables										
	Insert ass et description	e.g. ABAA	Allocator 1	[Select one]							
	Insert ass et description	e.g. ABAA	Allocator 2	[Select one]							
	Insert ass et description	e.g. ABAA	Allocator 3	[Select one]							
	Insert ass et description	e.g. ABAA	Allocator 4	[Select one]							
•	Not directly attributable										
Zon	Zone substations										
	Insert ass et description	e.g. ABAA	Allocator 1	[Select one]							
	Insert ass et description	e.g. ABAA	Allocator 2	[Select one]							
	Insert ass et description	e.g. ABAA	Allocator 3	[Select one]							
	Insert ass et description	e.g. ABAA	Allocator 4	[Select one]							
-	Not directly attributable										
Dist	Distribution and LV lines										
	Insert ass et description	e.g. ABAA	Allocator 1	[Select one]							
	Insert ass et description	e.g. ABAA	Allocator 2	[Select one]							
	Insert ass et description	e-g. ABAA	Allocator 3	[Select one]							
	Insert asset description	e.g. ABAA	Allocator 4	[Select one]							

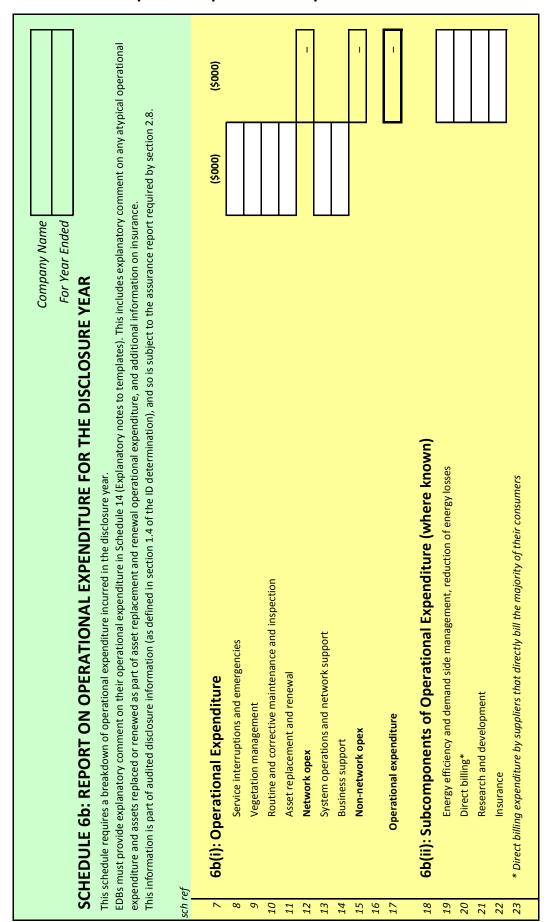


Schedule 6a Report on Capital Expenditure for the Disclosure Year

	Co	mnany Nama
		mpany Name or Year Ended
sc	SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSU	
	This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including an	
	excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Te	
	This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and	
sch re	h ref	
	Colib Funes diture on Accets	(6000) (6000)
7		(\$000) (\$000)
8 9		-
10	, ,	_
11	11 Asset relocations	_
12		
13		
14 15		
16		
17		
18	18 Expenditure on non-network assets	_
19	19	<u> </u>
20	20 Expenditure on assets	
21	,	
22	·	
23 24		
25		
26	6a(ii): Subcomponents of Expenditure on Assets (where known)	(\$000)
27	27 Energy efficiency and demand side management, reduction of energy losses	
28		
29	29 Research and development	
30	6a(iii): Consumer Connection	
31	· ·	(\$000) (\$000)
32	[EDB consumer type]	
33	[EDB consumer type]	
34	7. 7	
35 36		
37		
38	·	-
39		
40 41	· · · · · · · · · · · · · · · · · · ·	
41	Consumer connection less capital contributions	Asset
42	6a(iv): System Growth and Asset Replacement and Renewal	Replacement and
43		System Growth Renewal
44		(\$000) (\$000)
45		
46 47		
48		
49		
50	The state of the s	
51		
52		
53 54		
55		
56	6a(v): Asset Relocations	
57		(\$000) (\$000)
58		
59 60		
60 61		
62		
63		
64	All other projects or programmes - asset relocations	
65	· ·	-
66	66 less Capital contributions funding asset relocations 67 Asset relocations less capital contributions	



Schedule 6b Report on Operational Expenditure for the Disclosure Year



Schedule 7 Comparison of Forecasts to Actual Expenditure

	Communication of the Communica			
	Company Name			
	For Year Ended			
	CHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENSION OF STREET OF ACTUAL EXPENSION OF FORECASTS TO ACTUAL EXPENSION OF FORECASTS T		r Accordingly this	schedule requires
the ED Exp ass	e forecast revenue and expenditure information from previous disclosures to be instant were made to e forecast revenue and expenditure information from previous disclosures to be inserted. Bis must provide explanatory comment on the variance between actual and target revenue and for planatory Notes). This information is part of the audited disclosure information (as defined in sect surance report required by section 2.8. For the purpose of this audit, target revenue and forecast closures.	recast expenditure i	n Schedule 14 (Mar ermination), and so	ndatory is subject to the
sch r	ef			
7	7(i): Revenue	Target (\$000) ¹	Actual (\$000)	% variance
8	Line charge revenue		-	-
9	7(ii): Expenditure on Assets	Forecast (\$000) ²	Actual (\$000)	% variance
10	Consumer connection		_	-
11	System growth		_	-
12	Asset replacement and renewal			_
13 14	Asset relocations		_	_
15	Reliability, safety and environment: 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	7(iii): Operational Expenditure			
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	-	-	-
32	7(iv): Subcomponents of Expenditure on Assets (where known)			
33	Energy efficiency and demand side management, reduction of energy losses		-	-
34	Overhead to underground conversion		-	-
35	Research and development		-	-
36				
37	7(v): 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		.(2)		
43	1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3			
44	2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2. disclosure year (the second to last disclosure of Schedules 11a and 11b)	6.6 for the forecast p	period starting at th	e beginning of the

110

Schedule 8 Report on Billed Quantities and Line Charge Revenues

	Add even courses. In conditional blue quantes In price Compount as Reasony	Add extra columns for additional line for additional line for price component os necessory
Company Name For Year Ended Network / Sub-Network Name 1, and the energy delivered to these (CPs.		Line charge reserves (5000) by price component
SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES This schedule required the billied quantities and associated line charge revenues for each price category code used by the EDB in its pricing schedule. Information is also required on the number of ICIs that are included in each consumer group or price category code, and the energy delivered to these ICIs. 8 (i): Billed Quantities by Price Component 8 (ii): Billed Quantities by Price Component 11	Price component Unit charging basis (eg, days, kW of demand, WA of capacity, etc.)	Total darbution line charge revenue (if revenue available) Treated darbution line charge revenue (if revenue available) Total darbution line charge revenue (if and line charge)) Total transmission Total
ormation is also required on the ru	freegy delivered to ICPs in disclosure year (MWh)	Notional reenue Notional reenue desceuts (if applicable)
ob in its pricing schedules. Inf	Average no. of 10% in disclosure year	Total line change revenue in disclosure year.
CHARGE REVENUES	Standard or non-standard or consultant of consultant or co	<u> </u>
UANTITIES AND LINE cline charge revenues for each pomponent	Consumer type or types (eg. residential, commercial etc.)	Consume group name or price Component category code reddential, commercial etc.) Consume group name or price component consumer type or types (eg. Standard of consumer) consumer category code consumer category code consumer groups or price consumer category code code code code code code code code
SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES. This schedule requires the billed quantities and associated line charge revenues for each price category code used by the ED. 8 (i): Billed Quantities by Price Component.	Consumer group name or pites Consumer type or types (eg. Standard o consumer category code residential, commercial etc.) Scient commercial etc.) Scient commercial etc.) Scient commercial etc.) Scient commercial etc.) Scient commercial etc.) Scient commercial etc.) Scient commercial etc.) Scient commercial etc. Scient et	S(ii): Line Charge Revenues (\$000) by Price Component consumer group name or price Consumer type or types (eg. residential, commercial etc.) Add extra rows for oddstrond consumer groups or price category con Number of ICPs directly billed Number of directly billed
SCHEDULE 8: This schedule require School 8 8 (f): Bill	2888485855 5	

Schedule 9a Asset Register

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

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Schedule 9b Asset Age Profile

																								Company	y Name							-	-	-	
																								For Yea											
																						N	etwork / S	ub-networi											
HEDLI	LE 9b: ASSET AGE PROFILE																																		
		ased on year of installation) of the assets that make up the network, by ass	set catego	erv and asse	et class. Al	units relation	ng to cab	le and line assets	s, that are	expressed in	km. refer	o circuit len	eths.																						
		,		,																															
	Disclosure Year (year ended)		1											ure year end by installat																					
	Disclosure Year (year ended)		_								NU	mper or asse	ts at disclose	ore year end by installal	ion date																		No. with	Items at I	No. with
					1940 40 –194	9 -1959	19	60 1970 969 -1979	1980 -198	1990 -1999	2000	2001	2002																	2022	2024	2025			default Data a
Volt	age Asset category Overhead Line	Asset class Concrete poles / steel structure	Units No.	pre-194	40 -194	9 -1959	-19	969 -1979	-198	-1999	2000	2001	2002	2003 2004	2005	2006 200	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 2019	2020	2021 2023	2 2023	2024	2025	unknown	(quantity)	dates (1-
All	Overhead Line	Wood poles	No.	\vdash	1		+-		1		1		1	-				1	†											_		$\overline{}$	\vdash		[Selec
All	Overhead Line	Other pole types	No.						1		1																							-	[Selec
HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km																															-	[Selec
HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	\vdash		\bot	4		\perp	\perp	+	4	+					1								$-\Box$							\Box		[Selec
HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	-	+	+	-	_	├	+	+	+-	+		-		+	-	 	-	\vdash					-		-	_	-	+		\vdash		[Selec
HV	Subtransmission Cable Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	\vdash	+	+	-		+-	+	+-	-	+	1	+ -		+	+	+	-				-				\vdash	_	-	+ -		\vdash		(Selec
HV	Subtransmission Cable Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised) Subtransmission UG up to 66kV (PILC)	km km	\vdash	+	+	+	_	-	+	+	+-	+	1 1	-	-	+	+	 	t									_	_	1		\vdash		[Selec
HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km				1		1		1							1														-		-	(Selec
HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km																															-	[Selec
HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km						\perp		1																						\Box		[Selec
HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	<u> </u>	+	+		_		+	+	+-	+	+	_		+-	-	 	-	\vdash					\rightarrow		\vdash	_	-	+		\vdash		[Selec
HV	Subtransmission Cable Zone substation Buildings	Subtransmission submarine cable Zone substations up to 66kV	km No.	\vdash	_	_	+	_	+	_	-	-	-		_		_	-	-					-	_	_			_	-	_		\vdash		(Selec
HV	Zone substation Buildings	Zone substations 110kV+	No.	_	_	_	_		_		+		_	+ + + -			_									_						-	\vdash		[Selec
HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.						†		1						_																	-	(Selec
HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.																															-	(Selec
HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.																													—— '	ullet	-	[Selec
HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	<u> </u>	_	_		_	-	-	+	-			_		_	1	-											_	_	——'	\vdash	_	[Selec
HV	Zone substation switchgear Zone substation switchgear	33kV RMU 22/33kV CB (Indoor)	No.	-	_	_		_	-	-	+	-	+		-		_	-	-							-				-	_		\vdash		(Selec
HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	—		_	+	_	 	-	+	+	+				+	1	1						-					+		$\overline{}$	\vdash		[Selec
HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.		_						1						$\overline{}$															-		-	[Selec
HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.																															-	(Selec
HV	Zone Substation Transformer	Zone Substation Transformers	No.																														\perp	-	[Selec
HV	Distribution Line	Distribution OH Open Wire Conductor	km	<u> </u>		_	_		_								_															<u> </u>	\vdash		[Selec
HV	Distribution Line Distribution Line	Distribution OH Aerial Cable Conductor SWER conductor	km km	-	_	_	+-	_	├	_	+	-	+		_			+	-		_	_				-			_	-	_		\vdash		[Selec
HV	Distribution Line Distribution Cable	Distribution UG XLPE or PVC	km	—	_	_	+	_	\vdash	+	1	+	+				+	+	1					-	-					+		_	\vdash		[Selec
HV	Distribution Cable	Distribution UG PILC	km		1	1	+		1	1	1	1	1		1			1	T											_		-		-	[Selec
HV	Distribution Cable	Distribution Submarine Cable	km																																(Sele
HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers																	\vdash													\vdash	\Box		(Selec
HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	I			+	_	-	_	+-		+	+	\perp			1	1	-								\vdash	_		+	——'	\vdash		[Selec
HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted) 3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	\vdash	+	+	+	-	+-	+	+	+	+		+		+	1	+	-	\vdash	\rightarrow				\rightarrow		\vdash		_	+		\vdash		(Selec
HV	Distribution switchgear Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU 3.3/6.6/11/22kV RMU	No.	\vdash	+		+-		-	_	+	+	+				+	1	 	-		-			\rightarrow			+			+ -		\vdash		[Selec
HV	Distribution Transformer	Pole Mounted Transformer	No.		1	1	+		t		T	1							1																(Selec
HV	Distribution Transformer	Ground Mounted Transformer	No.		┸		ᆂ				上																							-	(Selec
HV	Distribution Transformer	Voltage regulators	No.																													=			[Selec
HV	Distribution Substations	Ground Mounted Substation Housing	No.	_			+-	_			+-	_	+		\perp			1	_									\vdash				——'	\vdash		(Selec
LV	LV Line LV Cable	LV OH Conductor	km km	\vdash	+	+	+-	_	+	+	+	-	+		+ -		-	1	+	1	\vdash	-						+		+	+				(Selec
LV	LV Cable LV Street lighting	LV UG Cable LV OH/UG Streetlight circuit	km km	\vdash	_	+	+	_	+	+	+	+-	+				+	1	1	 	\vdash	-		-		-	_	—		_	+		\vdash		[Selec
LV	Connections	OH/UG consumer service connections	No.	\vdash	_	+	+	_	t	+	t	+	1	1 1	1		+	1	t					-						1	+	-	\vdash		[Selec
All	Protection	Protection relays (electromechanical, solid state and numeric)	No.																															-	[Selec
All	SCADA and communications	SCADA and communications equipment operating as a single system																														=			(Selec
All	Capacitor Banks	Capacitors including controls	No																													\vdash	\Box		[Selec
All	Load Control	Centralised plant	Lot	<u> </u>	\perp	\perp			\vdash	_	1		_		\perp			_	_						-			-		_	\perp	—	-		(Selec
All	Load Control	Relays	No								1	- 1	1	1 1	1		1	1	1	I	1						1	1 1		1	1		1	-	(Selec

Schedule 9c Report on Overhead Lines and Underground Cables

	Company Name			
	For Year Ended			
	Network / Sub-network Name			
SC	CHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES			
Thi	s schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units rela	ting to cable and line	e assets, that are exp	ressed in km, refer to
	cuit lengths.			
sch r	ef			
9				Total circuit length
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			(% of total	
23	Overhead circuit length by terrain (at year end)	Circuit length (km)	•	
24	Urban		_	
25	Rural		_	
26	Remote only		_	
27	Rugged only		-	
28	Remote and rugged		-	
29	Unallocated overhead lines		-	
30	Total overhead length	_	-	
31			(% of total circuit	
32		Circuit length (km)	(% of total circuit length)	
33	Length of circuit within 10km of coastline or geothermal areas (where known)	(mm)	-	
	,		(% of total	
34		Circuit length (km)		
35	Overhead circuit requiring vegetation management	,	-	

Schedule 9d Report on Embedded Networks

	Company	Name	
	For Year I	Enaea	
SC	HEDULE 9d: REPORT ON EMBEDDED NETWORKS		
This	chedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in a	nother embedded network.	
ch re			
		Number of ICPs	Line charge revenue
8	Location *	served	(\$000)
9			
10			
11 12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25	* Cutand and add distribution and confine to the co	haddad is saathas EDR's satu	
26	* Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded network	veauea in another EDB's netw	ork or in another

Schedule 9e Report on Network Demand

	Company Nama
	Company Name 5 To A Late
	For Year Ended
	Network / Sub-network Name
	HEDULE 9e: REPORT ON NETWORK DEMAND
	schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including
aisti	ributed generation, peak demand and electricity volumes conveyed).
sch re	f
8	9e(i): Consumer Connections
9	Number of ICPs connected in year by consumer type
	Number of
10	Consumer types defined by EDB* connections (ICPs)
11	[EDB consumer type]
12	[EDB consumer type]
13	[EDB consumer type]
14	[EDB consumer type]
15	[EDB consumer type]
16 17	* include additional rows if needed Connections total –
18	connections total
19	Distributed generation
20	Number of connections made in year connections
21	Capacity of distributed generation installed in year MVA
22	Oaliily System Domand
22 23	9e(ii): System Demand
24	
	Demand at time of maximum
	coincident
25	Maximum coincident system demand
26	GXP demand
27	plus Distributed generation output at HV and above
28	Maximum coincident system demand –
29	less Net transfers to (from) other EDBs at HV and above
30	Demand on system for supply to consumers' connection points
24	Electricity volumes carried Energy (GWh)
31	
<i>32 33</i>	Electricity supplied from GXPs less Electricity exports to GXPs
34	plus Electricity supplied from distributed generation
35	less Net electricity supplied to (from) other EDBs
36	Electricity entering system for supply to consumers' connection points
37	less Total energy delivered to ICPs –
38	Electricity losses (loss ratio) – –
39 40	Load factor –
40	LUBU IBLIUI
41	9e(iii): Transformer Capacity
42	(MVA)
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

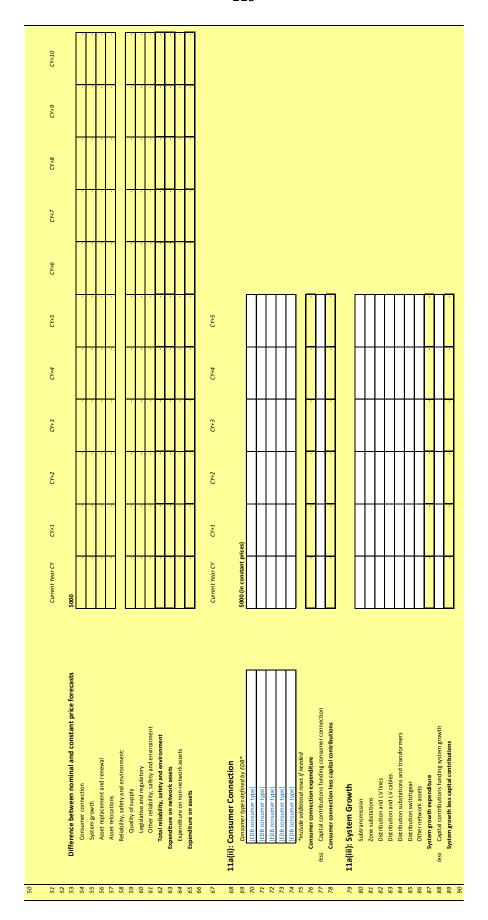
		Company Name		
		For Year Ended		
	Ne	twork / Sub-network Name		
SCF	HEDULE 10: REPORT ON NETWORK RELIABILITY			
This s	schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and f	ault rate) for the disclosure year.	. EDBs must provide	explanatory comment on their
	ork reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIE	I information is part of audited	disclosure informati	on (as defined in section 1.4 of
the IL	Odetermination), and so is subject to the assurance report required by section 2.8.			
sch ref				
8	10(i): Interruptions			
		Number of		
9	Interruptions by class	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	
	·	25/115	231113	
22	Class C interruptions restored within			
	CANTEL LOCATED L			
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 32	Class G (unplanned interruptions caused by another disclosing entity) Class H (planned interruptions caused by another disclosing entity)			
33				
34	Class I (interruptions caused by parties not included above) Total	_		
35	iotai			
33				
36	Normalised SAIFI and SAIDI	Normalised SAIFI	Normalised SAIDI	
37	Classes B & C (interruptions on the network)			

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				
	40/*** Class Distance in the Desiries in Marie Estimated and			
55	10(iii): Class B Interruptions and Duration by Main Equipment Involved			
56	Made and the section of the section of	CAUE	CAIDI	
57	Main equipment involved	SAIFI	SAIDI	
58	Subtransmission lines			
59	Subtransmission cables			
60 61	Subtransmission other Distribution lines (excluding LV)			
62	Distribution cables (excluding LV)			
63	Distribution cases (excluding LV)			
05	Distribution other (excluding 2-7)		-	
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)			
	40/) For It Date			
73	10(v): Fault Rate			
74	Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
75	Subtransmission lines		C. Cuit Ichigan (Kill)	per 100km/
75 76	Subtransmission lines Subtransmission cables			-
70	Subtransmission capies Subtransmission other			
78	Distribution lines (excluding LV)			_
79	Distribution cables (excluding LV)			
80	Distribution capies (excluding LV) Distribution other (excluding LV)			
81	Total	-		

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Schedule 11a Report on Forecast Capital Expenditure

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Table Dependition of content and conte	SC	HEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE	<u>.</u>	<u>-</u>				,	AMP	Company Name Planning Period			
113() Expenditure on Asset Forecast Consume consocious Asset Porecast Consumer consocious Consumer c	the EDE This	Surredue requires to reasonown to rockets expenditude on assets or rite Current to scroous eyes and a value of commissioned assets (i.e., the value of RAB additions). It is must provious explanatory somement on the difference between constant price and nominal dollar fore information is not part of audited disclosure information.	LO year planning period	assets in Schedule	ind be consistent wit 14a (Mandatory Exp	in the supporting into	orination set out in t	ne Alvir. The Toreca	oe expressed	oon constant by	ice and norminal dolla	remis. Aso required	s a Torecast of
Second three on Assets Foreist Second three on Assets Foreign	/ 8		Current Year CY	CV+1	CV+2	0/+3	CV+4	CV+5	9+A2	CV+7	CV+8	CV+9	CY+10
Section (Contact Content Con	6		\$000 (in nominal do	llars)									
A brand treplacement and retreetal parts of treetable parts of treetab	10												T
Accordance of the continuence	12												
Total color color control co	13												
Container connection	15											H	
Total testing but with an evaluation of the proposition of the proposition on assets Expenditure on assets	16	Legislative and regulatory											
Expenditure on sector assets Expenditure on sector assets	18	Ţ	•			٠	•		•	•			,
Public Cost of financial seasitists plus Cost of financial seasitists plus Value of capial contributions Assett commissioned Assett commissioned Contract tradection of cereation Assett commissioned Assett commission	19	ă	٠			•			•		•	•	
ries Value of settle diseases from the part of the month of the part of the month of the part of the p	20	ă				•	•		•		•	,	1
Part Complete control of the set of the control of every location of every locat	22												
Container connection	23	snId											П
Asset scormissioned Asset scormissioned Asset scormissioned Asset scormissioned Asset scormissioned Asset scormissioned Asset replacement and realewal Asset replacement	25												Ī
Assets commissioned Consultationed Consultationed Consultationed Consultationed System growth System	26	Casital Avenabilities facement											
Assets commissioned Carrent Year CY CY1 CY2 CY3 CY6 Carrent Year CY CY1 CY1 CY2 CY6 Consumer connection System growth Asset relocations Asset relocations Asset relocations Reliability, safety and environment Counting (stupply Legistative and regulatory Outher reliability, safety and environment Expenditure on non-retwork assets Expenditure on assets (where known) Subcomponents of expenditure on assets (where known) Subcomponents of expenditure on assets (where known) Research and development Research	28											-	1
Consumer connection System growth Asset relocations Asset relocations Asset relocations Asset relocations Reliability, safety and environment: Quality Safety and environment: Quality Safety and environment: Classification and environment regulatory Other reliability, safety and environment Expenditure on network assets Expenditure on network assets Expenditure on network assets Expenditure on assets (where known) Subcomponents of expenditure on assets (where known) Research and development Resear	29												
Consumer connection System growth Asset replacement and renewal Asset relocations Quality silety and environment: Quality of supply Legislative and regulatory Other reliability, safety and environment Total reliability, safety and environment Expenditure on network assets Expenditure on non-network assets Expenditure on savets Subcomponents of expenditure on assets (where known) Energy efficiency and demand side management, reduction of energy losses Overhead to underground conversion Research and development	30		Current Year CY	CY+1	CY+2	CV+3	CY+4	CV+5	9+,/.	CY+7	CV+8	6+,\2	CY+10
ы в supplemental	32		\$000 (in constant pr	ices)									
S ubc	33												
S ubc	35												
S ubc	35											_	
S ubc	38		•			-							
Subc Ex	39												
Subr Ex	41	2	-1		-	•			•	•		•	
Subc	42	Expenditure on network assets									•		
Subc	44	Expenditure on assets							•		,	-	
gns	45												
	46	ogns											
	48	Overhead to underground conversion											
	49	Research and development											



																																	·						,						
State CV+2 CV+3 CV+4 CV+4 CV+4 CV+4 CV+4 CV+5	CV+5													CV+5																CV+5															
Int and Renewal Soo (in constant price) sand Yarack Comment and renewal and transformers and Yarack Comment and renewal and transformers and Yarack Comment and renewal and transformers an	CV+4													CV+4																CV+4															
nt and Renewal ss and transformers and transformers coval less capital contributions coval coval coval capital coval coval capital coval capital coval capital coval capital coval coval capital coval c	CY+3													CV+3							_						,	-		CV+3															
nt and Renewal sooo (in constant prices) and transformers contributions sooo (in constant prices) contributions all contributions all contributions in freeded project or programmel	CY+2									•		•		CV+2													•	-		CV+2															
nt and Renewal ss and transformers and transformers and transformers and transformers and expenditure dring asset replacement and renewal project or programme project or project or project or programme project or project or project or project or p	CV+1	ces)								'				CV+1			- bel	-									•	-		CV+1			ces)												
213a(v): Asset Replacement and Renewal Subtransmission Zone substation and IV lines Distribution and IV lines Distribution and IV lines Distribution and IV rebies Distribution and IV captes Distribution and IV cables Distribution and IV cables Distribution and IV captes Asset replacement and renewal expenditure [Insertion of material project or programme] [Insertiption of material project or programme] Asset relocations expenditure [Insertiption of material project or programme] Asset relocations expenditure [Insertiption of material project or programme] [Insertiption of programme] [Insertiption of programme] [Insertiption of programme] [Insertiption of programme]	Current Year CY	\$000 (in constant pric												Current Year CY			\$000 fin constant pric										,	-		Current Year CY			\$000 (in constant pric												
		11a(iv): Asset Replacement and Renewal	Subtransmission	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution substations and transformers	Distribution switchgear	Other network assets	Asset replacement and renewal expenditure		Asset replacement and renewal less capital contributions				11a(v):Asset Relocations	Project or programme *		[Description or material project or programme]	[Description of material project or programme]	Airelando additional soure is anadad	include additional tows if needed	All other project or programmes - asset relocations	Asset relocations expenditure	Asset relocations less capital contributions				TTa(vI):Quality of Supply	Project or programme *	[Description of material project or programme]	[Description of material project or programme]	[Description of material propagamma]	Description of material project of programme)	[Description of material project of programme]	[Description of material project or programme]	*include additional rows if needed	All other projects or programmes - quality of supply	Quality of supply expenditure	less Capital contributions funding quality of supply	Quality of supply less capital contributions	Cuality of suppry ress capital contrained			

5+70	C7+5							ľ		Γ		CV+5													CV+5				T	Ī	Ī	Ī	1	Γ											,			
7440	****		Ħ									CY+4								-		•		-	CY+4			-		Ì															•	•	•	
CV+3	6443		Ħ					,		ľ		CV+3			F					-		•	1	•	CV+3			-		l				F				F							-	•		
C+X	7+72		Ħ									C/+2								-		•	1		CY+2			-		l					•										,		•	
CV+1	74.73	(Sa						1				CY+1		(50)						-		•	1	-	CV+1			es)		l																•	•	
Ourrent Venr CV	כמודפות דפטו כיד	\$000 (in constant prices)								ľ		Current Year CY		\$000 (in constant prices)						-		•			Current Year CY			\$000 (in constant prices)		T															1	•	•	
		v	·					•						•	· L					_	ment												_			_							1			1		
		11a(vii): Legislative and Regulatory	[Description of material project or programme]	(Description of material project or programme) [Description of material project or programme]	[Description of material project or programme]	[Description of material project or programme]	*include additional rows if needed	All other projects of programmes - legislative and regulatory legislative and regulatory	less Canital contributions finding legislative and regulatory	9	company of the state of the sta		11a(viii): Other Reliability Safety and Environment	15.1 Lia(viii). Ciriei iveilability, Jaiety and Livii Oillieit.		[Description of material project or programme]	*include additional rows if needed	All other projects or programmes - other reliability, safety and environment	δ	less Capital contributions funding other reliability, safety and environment	Other reliability, safety and environment less capital contributions		11a(ix): Non-Network Assets	Routine expenditure	Project or programme *	[Description of material project or programme]	[Description of material project of programme]	[Description of material project of programme]	[Description of material project of programme]	*include additional raus if paeded	All other projects or programmes - routine expenditure	Routine expenditure	Atmical accounting	Atypical experiment of project or programme *	[Description of material project or programme]	*include additional rows if needed	All other projects or programmes - atypical expenditure	Atypical expenditure		Expenditure on non-network assets								

Schedule 11b Report on Forecast Operational Expenditure

CHEDUL s schedule ru Bs must prov sinformatio	L EXPENDITURE ure year and a 10 year planning per d nominal dollars) sooo (in nominal dollars) current Year CY Current Year CY Current Year CY	ollars) CY+1 CY+1 CY+1	CV/2	CV/3	O'A Notes).	CV+5	AMP of the forecast is to be a CMG of CMG of the forecast is to be a CMG of the CMG of the forecast is to be a CMG of the CMG of the forecast is to be a CMG of the forecast is to be a CM	Company Name AMP Planning Period to be expressed in both co	Ork 8	CV+9	C(+10
Subcom Subcom Offeren Offeren Offeren	Sooo Sooo	C/41	C/4.2	C/v3	Divid	C/45	C/v6	C/47	C/48	C/49	C/+10

Schedule 12a Report on Asset Condition

sch ref						replaced in the react 5 years. All information about disconsistent with the information provided in the AMP and the expenditure on assets forecast in Schedule 11a. All units relating to cable and line assets, that are expressed in kin, refer to circuit lengths.					Instructure agrees are associated by assections to a trieval or interest, year. The star or interest control of assections to a section of the percentage during to able and line assection to a section of the percentage of the pe	
N ∞						Ass	et condition at st	art of planning p	eriod (percenta	Asset condition at start of planning period (percentage of units by grade)		% of asset
0	Voltage	Asset category	Asset class	Units	로	7	罕	Ŧ	¥	Grade unknown	Data accuracy (1–4)	forecast to be replaced in next 5 years
10	N	Overhead Line	Concrete poles / steel structure	No.							Select one]	
11	M	Overhead Line	Wood poles	No.							Select one]	
12	M	Overhead Line	Other pole types	No.							Select one]	
13	≩	Subtrans mission Line	Subtransmission OH up to 66kV conductor	km							Select one]	
14	≩	Subtransmission Line	Subtransmission OH 110kV+ conductor	km							Select one]	
15	≩	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km							[Select one]	
16	≩	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km							Select one]	
17	≩	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km						_	Select one]	
18	≩	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km						1	Select one]	
13	≩	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km							Select one]	
20	≩	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km							Select one]	
21	≩	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km							Select one]	
22	≩	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km							Select one]	
23	≩	Subtransmission Cable	Subtransmission submarine cable	km]	Select one]	
24	≩	Zone substation Buildings	Zone substations up to 66kV	No.							Select one]	
25	≩	Zone substation Buildings	Zone substations 110kV+	No.							Select one]	
56	≩	Zone substation switchgear	22/33kV CB (Indoor)	No.							Select one]	
27	≩	Zone substation switchgear	22/33kV CB (Outdoor)	No.						1	Select one]	
28	≩	Zone substation switchgear	33kV Switch (Ground Mounted)	No.						1	Select one]	
29	≩	Zone substation switchgear	33kV Switch (Pole Mounted)	No.							Select one]	
30	≩	Zone substation switchgear	33kV RMU	No.							Select one]	
31	≩	Zone substation switchgear	50/66/110kV CB (Indoor)	No.						_	Select one]	
32	≩	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.							Select one]	
33	≩	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.							[Select one]	
3.4	Š	The new Arrabid that Allen and Arrabid to a	the transfer of the first transfer of the tran	1								

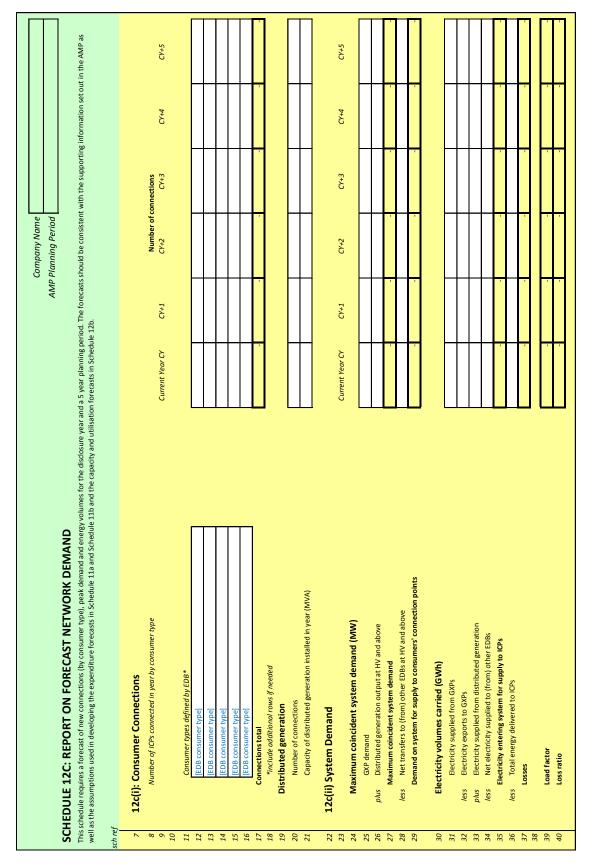
37											% of asset
	Voltage Asset category	Asset class	Units	Ŧ	겊	£	Н4	웊	Grade unknown	Data accuracy (1-4)	replaced in
38			L								
39	HV Zone Substation Transformer	Zone Substation Transformers	No.							[Selectone]	
40	HV Distribution Line	Distribution OHOpen Wire Conductor	km							[Selectone]	
41	HV Distribution Line	Distribution OH Aerial Cable Conductor	km							[Selectione]	
42	HV Distribution Line	SWERconductor	km							[Selectione]	
43	HV Distribution Cable	Distribution UG XLPE or PVC	km							[Selectione]	
44	HV Distribution Cable	Distribution UG PILC	km							(Select one)	
45	HV Distribution Cable	Distribution Submarine Cable	km							[Selectione]	
46	HV Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.							Selectone	
47	HV Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.							[Selectione]	
48	HV Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.							[Selectione]	
49	HV Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.							(Select one)	
20	HV Distribution switchgear	3.3/6.6/11/22kV RMU	No.							[Selectione]	
51	HV Distribution Transformer	Pole Mounted Transformer	No.							[Selectone]	
52	HV Distribution Transformer	Ground Mounted Transformer	No.							[Selectone]	
53	HV Distribution Transformer	Voltage regula tors	No.							Selectone	
54	HV Distribution Substations	Ground Mounted Substation Housing	No.							Selectone	
55	LV LV Line	LVOHConductor	km							[Selectone]	
99	LV LV Cable	LVUGCable	km							[Selectione]	
57	LV LV Streetlighting	LVOH/UG Streetlight circuit	km							(Selectione)	
28	LV Connections	OH/UG consumer service connections	No.							[Selectione]	
29	All Protection	Protection relays (electromechanical, solid state and numeric)	No.							(Select one)	
09	All SCADA and communications	SCADA and communications equipment operating as a single system	Lot							[Selectione]	
61	All Capacitor Banks	Capacitors including controls	No.							[Selectione]	
62	All Load Control	Centralised plant	Lot							(Selectione)	
63	All Load Control	Relays	No.							Selectone	
64	All Civils	Cable Tunnels	km							Selectonel	

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Schedule 12b Report on Forecast Capacity

DULE 1	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 AMP. Information provided in this above.	on for each zone substa	rtion and current dist	tribution transformer	capacity. The data pro	ovided should be co	onsistent with the inf	ormation provided i	AMP Planning Period nthe AMP. Information provided	
12b(i): 5	12b(ii: System Growth - Zone Substations									
	Svicting Zone Substrains	Current Peak Load	Installed Firm Capacity	Security of Supply Classification	Transfer Capacity	Utilisation of Installed Firm Capacity	Installed Firm Capacity +5 years	Utilisation of Installed Firm Capacity + Syrs	Installed Firm Capacity Constraint +5 years	Fvdanstion
Ź	Zone Substation_01]	(5)	((add)	(5)	*		Г	[Select one]	i i i i i i i i i i i i i i i i i i i
<u>[Z]</u>	Zone Substation_02]					,			[Select one]	
Z]	Zone Substation_03]								[Select one]	
Z]	Zone Substation_04]					-			[Select one]	
[Z	Zone Substation_05]					-			[Select one]	
[Z	Zone Substation_06]					-			[Select one]	
Z]	Zone Substation_07]					_			[Select one]	
Z]	Zone Substation_08]					-			[Select one]	
Z]	Zone Substation_09]					-			[Select one]	
[Z	Zone Substation_10]					-			[Select one]	
Z]	Zone Substation_11]								[Select one]	
Z]	Zone Substation_12]					-			[Select one]	
Z]	Zone Substation_13]					-			[Select one]	
[2]	Zone Substation_14]					-			[Select one]	
[Z	Zone Substation_15]								[Select one]	
Z]	Zone Substation_16]								[Select one]	
[Z]	Zone Substation_17]								[Select one]	
Z]	Zone Substation_18]					-			[Select one]	
[2]	Zone Substation_19]					-			[Select one]	
2	Zone Substation 201								(Contract contract	

Schedule 12c Report on Forecast Network Demand



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Schedule 12d Report on Forecast Interruptions and Duration

DULE 12d: REPORT FORECAST INTERRUPTI dule requires a forecast of SAIFI and SAIDI for disclosure and a 5 year of SAIFI and SAIDI on the expenditures forecast provided in Schedule SAIDI Class B (planned interruptions on the network) Class C (unplanned interruptions on the network) SAIFI Class C (unplanned interruptions on the network) Class C (unplanned interruptions on the network) Class C (unplanned interruptions on the network)	RRUPTIONS AND DURATION 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 in Schedule 11a and Schedule 11b.	Current Year CY CY+1 CY+2 CY+4 CY+5
SCHEI This sche unplanne unplanne sch ref	SCHEDULE 12d: REPORT FORECAST INTERRUPTIONS AND DURATION This schedule requires a forecast of SAIFI and SAIDI for disclosure and a 5 year planning period. The forecasts shupplanned SAIFI and SAIDI on the expenditures forecast provided in Schedule 11a and Schedule 11b.	AS AS

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.
 - 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 <u>'User guidance'</u>: 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 <u>'Evidence—Summary'</u>: 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 <u>'Score'</u>: 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
 - 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.

						Company Name		
						AMP Planning Period		
						Asset Management Standard Applied		
SCHEDULE 13	: REPORT ON	ASSET MANAGEMENT MATUR	RITY					
This schedule require	s information on the E	DB'S self-assessment of the maturity of its asse	t managem	ent practices .				
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented 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 polices, strategies and stakeholder requirements as covered in drafting the asset management policy but at a greater level of detail.	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 A	ASSET MANAGEMENT MATUR	ITY (cont)		Asset Management Standard Applied		
002022							
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
3	Asset management	To what extent has an asset management policy been	The organisation does not have a documented asset management policy.	The organisation has an asset management policy, but it has not been	The organisation has an asset management policy, which has been	The asset management policy is authorised by top management, is	The organisation's process(es) surpass the standard required to comply with
	policy	documented, authorised and		authorised by top management, or it is	authorised by top management, but it	widely and effectively communicated to	requirements set out in a recognised
		communicated?		not influencing the management of the	has had limited circulation. It may be in	all relevant employees and stakeholders,	standard.
				assets.	use to influence development of strategy and planning but its effect is limited.	and used to make these persons aware of their asset related obligations.	The assessor is advised to note in the
						S	Evidence section why this is the case
							and the evidence seen.
10	Asset	What has the organisation done to	The organisation has not considered the	The need to align the asset management		All linkages are in place and evidence is	The organisation's process(es) surpass
	management strategy	ensure that its asset management strategy is consistent with other	need to ensure that its asset management strategy is appropriately	strategy with other organisational policies and strategies as well as	term asset management strategy and other organisational policies, strategies	available to demonstrate that, where appropriate, the organisation's asset	the standard required to comply with requirements set out in a recognised
	Strategy	appropriate organisational policies	aligned with the organisation's other	stakeholder requirements is understood	and stakeholder requirements are	management strategy is consistent with	standard.
		and strategies, and the needs of	organisational policies and strategies or	and work has started to identify the	defined but the work is fairly well	its other organisational policies and	The constant of the day was to she
		stakeholders?	with stakeholder requirements. OR	linkages or to incorporate them in the drafting of asset management strategy.	advanced but still incomplete.	strategies. The organisation has also identified and considered the	The assessor is advised to note in the Evidence section why this is the case
			The organisation does not have an asset	,		requirements of relevant stakeholders.	and the evidence seen.
			management strategy.				
11	Asset	In what way does the organisation's	The organisation has not considered the		The long-term asset management	The asset management strategy takes	The organisation's process(es) surpass
	management strategy	asset management strategy take account of the lifecycle of the assets,	need to ensure that its asset management strategy is produced with	organisation is drafting its asset management strategy to address the	strategy takes account of the lifecycle of some, but not all, of its assets, asset	account of the lifecycle of all of its assets, asset types and asset systems.	the standard required to comply with requirements set out in a recognised
	,	asset types and asset systems over	due regard to the lifecycle of the assets,	lifecycle of its assets, asset types and	types and asset systems.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	standard.
		which the organisation has stewardship?	asset types or asset systems that it manages.	asset systems.			The assessor is advised to note in the
		stewardshipr	OR				Evidence section why this is the case
			The organisation does not have an asset				and the evidence seen.
			management strategy.				
26	Asset	How does the organisation establish	The organisation does not have an	The organisation has asset management		Asset management plan(s) are	The organisation's process(es) surpass
	management plan(s)	and document its asset management plan(s) across the life cycle activities	identifiable asset management plan(s) covering asset systems and critical	plan(s) but they are not aligned with the asset management strategy and	putting in place comprehensive, documented asset management plan(s)	established, documented, implemented and maintained for asset systems and	the standard required to comply with requirements set out in a recognised
		of its assets and asset systems?	assets.	objectives and do not take into	that cover all life cycle activities, clearly	critical assets to achieve the asset	standard.
				consideration the full asset life cycle	aligned to asset management objectives	management strategy and asset	The essential object to the last
				(including asset creation, acquisition, enhancement, utilisation, maintenance	and the asset management strategy.	management objectives across all life cycle phases.	The assessor is advised to note in the Evidence section why this is the case
				decommissioning and disposal).		, , , , , , ,	and the evidence seen.

						133		
						Company Name		
						AMP Planning Period		
						Asset Management Standard Applied		
		ASSET MANAGEMENT MATUR						
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented 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. 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.

				134			
					Commonwell Marris		
					Company Name		
					AMP Planning Period		
COUEDINE 43	DEDORT ON A	CCCT BAABIA CCBACNIT BAATIID	1774 (1)		Asset Management Standard Applied		
SCHEDULE 13:	REPORT ON A	ASSET MANAGEMENT MATUR	IIY (cont)				
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
27	Asset management	How has the organisation communicated its plan(s) to all	The organisation does not have plan(s) or their distribution is limited to the	The plan(s) are communicated to some of those responsible for delivery of the	The plan(s) are communicated to most of those responsible for delivery but	The plan(s) are communicated to all relevant employees, stakeholders and	The organisation's process(es) surpass the standard required to comply with
	plan(s)	relevant parties to a level of detail	authors.	plan(s).	there are weaknesses in identifying	contracted service providers to a level of	
		appropriate to the receiver's role in		OR	relevant parties resulting in incomplete	detail appropriate to their participation	standard.
		their delivery?		Communicated to those responsible for delivery is either irregular or ad-hoc.	or inappropriate communication. The organisation recognises improvement is	or business interests in the delivery of the plan(s) and there is confirmation	The assessor is advised to note in the
				delivery is either irregular or ad-noc.		that they are being used effectively.	Evidence section why this is the case
					3	, , , , , , , , , , , , , , , , , , , ,	and the evidence seen.
29	Asset	How are designated responsibilities	The organisation has not documented	Asset management plan(s)	Asset management plan(s) consistently	Asset management plan(s) consistently	The organisation's process(es) surpass
	management	for delivery of asset plan actions	responsibilities for delivery of asset plan	inconsistently document responsibilities		document responsibilities for the	the standard required to comply with
	plan(s)	documented?	actions.	for delivery of plan actions and activities and/or responsibilities and authorities	responsibility/authority levels are	delivery actions and there is adequate detail to enable delivery of actions.	requirements set out in a recognised standard.
				for implementation inadequate and/or	inappropriate/ inadequate, and/or there	Designated responsibility and authority	
				delegation level inadequate to ensure	are misalignments within the	for achievement of asset plan actions is	The assessor is advised to note in the
				effective delivery and/or contain	organisation.	appropriate.	Evidence section why this is the case
				misalignments with organisational accountability.			and the evidence seen.
31	Asset	What has the organisation done to	The organisation has not considered the		The organisation has arrangements in	The organisation's arrangements fully	The organisation's process(es) surpass
	management plan(s)	ensure that appropriate arrangements are made available for the efficient	arrangements needed for the effective implementation of plan(s).	ensure appropriate arrangements are in place for implementation of asset	place for the implementation of asset management plan(s) but the	cover all the requirements for the efficient and cost effective	the standard required to comply with requirements set out in a recognised
	piari(s)	and cost effective implementation of	implementation of plants).	management plan(s) and is in the	arrangements are not yet adequately	implementation of asset management	standard.
		the plan(s)?		process of determining an appropriate	efficient and/or effective. The	plan(s) and realistically address the	
				approach for achieving this.	organisation is working to resolve	resources and timescales required, and	The assessor is advised to note in the
		(Note this is about resources and enabling support)			existing weaknesses.	any changes needed to functional policies, standards, processes and the	Evidence section why this is the case and the evidence seen.
		enabling support)				asset management information system.	and the evidence seen.
33	Contingency	What plan(s) and procedure(s) does	The organisation has not considered the	The organisation has some ad-hoc	Most credible incidents and emergency	Appropriate emergency plan(s) and	The organisation's process(es) surpass
	planning	the organisation have for identifying	need to establish plan(s) and		situations are identified. Either	procedure(s) are in place to respond to	the standard required to comply with
		and responding to incidents and emergency situations and ensuring	procedure(s) to identify and respond to incidents and emergency situations.	emergency situations, but these have been developed on a reactive basis in	appropriate plan(s) and procedure(s) are incomplete for critical activities or they	credible incidents and manage continuity of critical asset management	requirements set out in a recognised standard.
		continuity of critical asset	incluents and emergency situations.	response to specific events that have	are inadequate. Training/ external	activities consistent with policies and	Standard.
		management activities?		occurred in the past.	alignment may be incomplete.	asset management objectives. Training	The assessor is advised to note in the
						and external agency alignment is in	Evidence section why this is the case
						place.	and the evidence seen.

						Company Name		
						AMP Planning Period		
						Asset Management Standard Applied		
SCHEDULE 1	3: REPORT ON A	ASSET MANAGEMENT MATUR	ITY (co	nt)				
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented 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.

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
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	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 people to ensure the assets	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	top management provide to	The organisation's top management has not considered the resources required to deliver asset management.	The organisations 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 organisations 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 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.

						Company Name					
						AMP Planning Period					
SCHEDIUE 12	· REPORT ON	ASSET MANAGEMENT MATUR	ITV (co	nt)		Asset Management Standard Applied					
SCHEDOLL 13	. KEI OKI OK	ASSET WANAGEWENT WATON	111 (00)	1.5							
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),				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	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			
		objectives and plan(s)?				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 6, 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.		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).	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.	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?					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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					Company Name		
					AMP Planning Period		
					Asset Management Standard Applied		
HEDULE 13	B: REPORT ON A	ASSET MANAGEMENT MATUR	ITY (cont)				
	F	Question	***************************************	And the Land of	Maturity Level 2	24-1	Maturity Level 4
Question No. 48	Function Training,	How does the organisation develop	Maturity Level 0 The organisation has not recognised the	Maturity Level 1 The organisation has recognised the	The organisation has developed a	Maturity Level 3 The organisation can demonstrate that	The organisation's process(es) sur
40	awareness and	plan(s) for the human resources	need for assessing human resources	need to assess its human resources	strategic approach to aligning	plan(s) are in place and effective in	the standard required to comply w
	competence	required to undertake asset	requirements to develop and implement	requirements and to develop a plan(s).	competencies and human resources to	matching competencies and capabilities	requirements set out in a recognise
		management activities - including the	its asset management system.	There is limited recognition of the need	the asset management system including		standard.
		development and delivery of asset		to align these with the development and	the asset management plan but the work	including the plan for both internal and	
		management strategy, process(es),		implementation of its asset	is incomplete or has not been	contracted activities. Plans are	The assessor is advised to note in
		objectives and plan(s)?		management system.	consistently implemented.	reviewed integral to asset management	Evidence section why this is the ca
						system process(es).	and the evidence seen.
49	Training,	How does the organisation identify	The organisation does not have any	The organisation has recognised the	The organisation is the process of	Competency requirements are in place	The organisation's process(es) su
	awareness and	competency requirements and then	means in place to identify competency	need to identify competency	identifying competency requirements	and aligned with asset management	the standard required to comply w
	competence	plan, provide and record the training	requirements.	requirements and then plan, provide and		plan(s). Plans are in place and effective	requirements set out in a recognis
		necessary to achieve the		record the training necessary to achieve		in providing the training necessary to	standard.
		competencies?		the competencies.	record appropriate training. It is incomplete or inconsistently applied.	achieve the competencies. A structured means of recording the competencies	The assessor is advised to note in
					incomplete of inconsistently applied.	achieved is in place.	Evidence section why this is the c
							and the evidence seen.
50	Training,	How does the organization ensure	The organization has not recognised the	Competency of staff undertaking asset	The organization is in the process of		The organisation's process(es) sur
	awareness and	that persons under its direct control	need to assess the competence of	management related activities is not	putting in place a means for assessing	and assessed for all persons carrying out	
	competence	undertaking asset management related activities have an appropriate	person(s) undertaking asset management related activities.	managed or assessed in a structured way, other than formal requirements for	the competence of person(s) involved in asset management activities including	asset management related activities - internal and contracted. Requirements	requirements set out in a recognis standard.
		level of competence in terms of	management related activities.	legal compliance and safety	contractors. There are gaps and	are reviewed and staff reassessed at	standard.
		education, training or experience?		management.	inconsistencies.	appropriate intervals aligned to asset	The assessor is advised to note in
		are an area area area area area area are				management requirements.	Evidence section why this is the o
							and the evidence seen.

						Company Name		
						AMP Planning Period		
						Asset Management Standard Applied		
EDULE 1	3: REPORT ON A	ASSET MANAGEMENT MATUR	RITY (co	nt)				
stion No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented Information
53	Communication,	How does the organisation ensure	Jeore	Evidence Juninary	Oser Guidance	Widely used AM practice standards require that	Top management and senior management	Asset management policy statement prominently
	participation and consultation	that pertinent asset management information is effectively communicated to and from employees and other stakeholders, including contracted service providers?				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.	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).	displayed on notice boards, intranet and internet; organisation's website for displaying asset perfor data; evidence of formal briefings to employees, stakeholders and contracted service providers; evi 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 emploidetermine what its asset information system shou 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, toget with the policies, procedure(s), improvement initia and audits regarding information controls.

					Company News		
					Company Name AMP Planning Period		
					Asset Management Standard Applied		
CHEDINE 13	2. DEDODT ON A	SSET MANAGEMENT MATUR	ITV (cont)		Asset Munagement Standard Applied		
CHEDULE 13	S. REPORT ON A	33ET WANAGEWENT WATOR	iii (cont)				
Question No.	Function	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
53	Communication,	How does the organisation ensure	The organisation has not recognised the	There is evidence that the pertinent	The organisation has determined	Two way communication is in place	The organisation's process(es) surpa
	participation and consultation	that pertinent asset management information is effectively	need to formally communicate any asset management information.	asset management information to be shared along with those to share it with	pertinent information and relevant parties. Some effective two way	between all relevant parties, ensuring that information is effectively	the standard required to comply with requirements set out in a recognised
	Consultation	communicated to and from	management information.	is being determined.	communication is in place but as yet not	communicated to match the	standard.
		employees and other stakeholders,			all relevant parties are clear on their	requirements of asset management	
		including contracted service			roles and responsibilities with respect to	strategy, plan(s) and process(es).	The assessor is advised to note in th
		providers?			asset management information.	Pertinent asset information requirements are regularly reviewed.	Evidence section why this is the case and the evidence seen.
						requirements are regularly reviewed.	and the evidence seen.
59	Asset	What documentation has the	The organisation has not established	The organisation is aware of the need to	The organisation in the process of	The organisation has established	The organisation's process(es) surpa
	Management	organisation established to describe	documentation that describes the main	put documentation in place and is in the		documentation that comprehensively	the standard required to comply with
	System	the main elements of its asset	elements of the asset management	process of determining how to document		describes all the main elements of its	requirements set out in a recognise
	documentation	management system and interactions between them?	system.	the main elements of its asset management system.	that describes some, but not all, of the main elements of its asset management	asset management system and the interactions between them. The	standard.
		between them?		management system.	system and their interaction.	documentation is kept up to date.	The assessor is advised to note in the
					-,		Evidence section why this is the case
							and the evidence seen.
62	Information	What has the organisation done to	The organisation has not considered	The organisation is aware of the need to	The organisation has developed a	The organisation has determined what	The organisation's process(es) surpa
02	management	determine what its asset	what asset management information is	determine in a structured manner what	structured process to determine what	its asset information system should	the standard required to comply with
		management information system(s)	required.	its asset information system should	its asset information system should	contain in order to support its asset	requirements set out in a recognised
		should contain in order to support its asset management system?		contain in order to support its asset	contain in order to support its asset	management system. The requirements	standard.
		asset management system?		management system and is in the process of deciding how to do this.	management system and has commenced implementation of the	relate to the whole life cycle and cover information originating from both	The assessor is advised to note in the
				F	process.	internal and external sources.	Evidence section why this is the cas
							and the evidence seen.
62						T	T
63	Information management	How does the organisation maintain its asset management information	There are no formal controls in place or controls are extremely limited in scope	The organisation is aware of the need for effective controls and is in the	The organisation has developed a controls that will ensure the data held is	The organisation has effective controls in place that ensure the data held is of	The organisation's process(es) surp the standard required to comply wit
	management	system(s) and ensure that the data	and/or effectiveness.	process of developing an appropriate	of the requisite quality and accuracy and	the requisite quality and accuracy and is	
		held within it (them) is of the		control process(es).	is consistent and is in the process of	consistent. The controls are regularly	standard.
		requisite quality and accuracy and is			implementing them.	reviewed and improved where	
		consistent?				necessary.	The assessor is advised to note in the Evidence section why this is the cas
							and the evidence seen.
							and a second

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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?				risk assessments are considered and that adequate resource (including staff) and training is identified to	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

	Company Name	
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	Asset Management Standard Applied	
CHEDULE 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.	asset management information system	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) surpas 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)	assessment of asset and asset	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.	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) surpast 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.	ensuring that outputs of risk assessment are included in developing requirements for resources and training. The	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) surpas 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.	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) surparthe 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.

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

					Company Name		
					AMP Planning Period		
					Asset Management Standard Applied		
HEDULE 13	: REPORT ON A	SSET MANAGEMENT MATUR	ITY (cont)				
uestion No. 88	Function Life Cycle	Question	Maturity Level 0	Maturity Level 1	Maturity Level 2	Maturity Level 3	Maturity Level 4
00	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) su the standard required to comply v requirements set out in a recogni standard. The assessor is advised to note in Evidence section why this is the of 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.	have process(es) and procedure(s) in	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) su the standard required to comply v requirements set out in a recogni standard. The assessor is advised to note in Evidence section why this is the cand 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.	monitoring asset performance but has not developed a coherent approach. Measures are incomplete, predominantly reactive and lagging. There is no	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) so the standard required to comply requirements set out in a recognistandard. The assessor is advised to note in Evidence section why this is the country 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) since standard required to comply requirements set out in a recognistandard. The assessor is advised to note in Evidence section why this is the conditional three evidence seen.

						143		
						Company Name		
						AMP Planning Period		
						Asset Management Standard Applied		
CHEDULE 13	: REPORT ON	ASSET MANAGEMENT MATUR	RITY (co	nt)				
Question No.	Function	Question	Score	Evidence—Summary	User Guidance	Why	Who	Record/documented 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 audi 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 ris 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 that 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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					Communication Management		
					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
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.	have systematic approaches to instigating corrective or preventive actions. There is ad-hoc implementation for corrective actions to address failures	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	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.		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	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.	requirements set out in a recognised standard. The assessor is advised to note in the

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 112 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
 - 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)
- 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.

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Box 6: Tax effect of other temporary differences (current disclosure year) [Insert text here]
[msert text here]
Related party transactions: disclosure of related party transactions (Schedule 5b)
10. In the box below, provide descriptions of related party transactions beyond those
disclosed on Schedule 5b including identification and descriptions as to the nature of
directly attributable costs disclosed under subclause 2.3.6(1)(b).
Box 7: Related party transactions
[Insert text here]
Cost allocation (Schedule 5d)
cost unocution (schedule su)
11.10. 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 87: Cost allocation [Insert text here]
[msere text here]
Asset allocation (Schedule 5e)
12.11. 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 89: Commentary on asset allocation
[Insert text here]

Capital Expenditure for the Disclosure Year (Schedule 6a)

13.12. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-

	Electricity Distribution Information Disclosure Amendments Determination 2017 150
	13.112.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
	13.212.2 information on reclassified items in accordance with subclause 2.7.1(2),
	Box 910: Explanation of capital expenditure for the disclosure year [Insert text here]
	Operational Expenditure for the Disclosure Year (Schedule 6b)
	14.13. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-
	<u>14.113.1</u> Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;
	14.213.2 Information on reclassified items in accordance with subclause 2.7.1(2);
	14.313. 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 104: Explanation of operational expenditure for the disclosure year [Insert text here]
·	Variance between forecast and actual expenditure (Schedule 7)
	15.14. 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 112: Explanatory comment on variance in actual to forecast expenditure [Insert text here]

Electricity Distribution Information Disclosure Amendments Determination 2017 Information relating to revenues and quantities for the disclosure year 16.15. In the box below provide-46.115.1 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 <u>16.2</u>15.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue. Box 123: Explanatory comment relating to revenue for the disclosure year [Insert text here] Network Reliability for the Disclosure Year (Schedule 10) 17.16. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10. Box 134: Commentary on network reliability for the disclosure year [Insert text here] Insurance cover 18.17. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance: __In respect of any self insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

Box 145: Explanation of insurance cover

[Insert text here]

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Amendments to previously disclosed information

19.18. 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:

19.118.1 a description of each error; and

for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

Box 156: 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.
- 2. 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)

3. 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)

4. 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

- 1. This schedule enables EDBs to provide, should they wish to
 - 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;
 - information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
- 2. 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.
- 3. 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	means: $q = \frac{a-b}{b} \times 100$
	where:
	a = actual expenditure
	b = forecast expenditure
> 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 2.4.57 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 2.4.57 of the IM determination

2013- 20 15 NPV wash-up	means a cost specified in clause 3.1.3(1)(s) of the IM determination
allowance	
	Guidance note: (refer to clause 1.4.1(8)-(9))
	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.
Actual controllable opex	has the meaning given in the IM determination
Actual expenditure	means, in relation to-
	(a) a disclosure year, expenditure for that disclosure year
	(b) regulatory period, expenditure for the disclosure years from the start of the
	regulatory period to the current disclosure year
Adjusted depreciation	has the meaning given in the IM determination
Adjustment for	means for assets acquired from another regulated supplier, the value of the
unamortised initial	unamortised initial differences in asset values for those assets acquired as
differences in assets	unamortised initial differences in asset values is determined in accordance with
acquired	the input methodologies that apply to the regulated goods or services supplied by
	that regulated supplier
Adjustment for	means the value of opening unamortised initial differences in asset values for
unamortised initial	assets that are disposed of during the disclosure year
differences in assets	
disposed	

Adjustment resulting	means
from asset allocation	(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
	(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
	(c) in all other instances, the value of q calculated using the following formula:
	q = a - (b - c + d + e - f + g)
	where:
	a =total closing RAB value
	b_{\parallel} =total opening RAB value
	${\cal C}$ = total depreciation
	d = total revaluations
	e = assets commissioned
	f = asset disposals
	g = lost and found assets adjustment
	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;
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
1	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 (Hgrade-1 to 54), 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
Ī	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) is a reduced life asset or dedicated asset(s) as those terms are used in clause 2.2.8(5) of the IM determination
		(b)(a) the asset(s) depreciation profile was changed or set in accordance with the CPP process
		(c)(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
		(d)(c) the EDB chooses to disclose details about the asset(s) depreciation profile
		(e)(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 (cd) applies to one of its component assets
	Assets acquired from a regulated supplier	 (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

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Assets acquired from a	means-
related party	(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;
	(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
Assets commissioned	means assets commissioned other than assets acquired from a regulated supplier
(other than below)	and assets acquired from a related party
Attribution rate	means: $q = \frac{a \times b}{c}$
	where:
	a = average opening and closing RAB values
	b = a leverage rate of 4 $\frac{24}{}$ %
'	c_{\parallel} = total book value of interest bearing debt
Atypical expenditure	means expenditure on non-network assets that is 'one-off' or 'exceptional'
Average opening and	means;
closing RAB values	$a = \frac{a+b}{a}$
	$q = \frac{\sqrt{2}}{2}$
	where:
	a = Total opening RAB values
	b = Total closing RAB values
Basis for determining	means the subclause under either:
value	(a) clause 2.2.11(5) of the IM determination; or
	(b) clauses 2.3.6 or 2.3.7 of this determination
	applied in the valuation of the related party transactions
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	means-
	(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 (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
	The state of the s

Business support	means operational expenditure associated with the following corporate activities-
	 (a) HR and training (other than operational training); (b) finance and regulation including compliance activities, valuations and auditing; (c) CEO and director costs; (d) legal services; (e) consulting services (excluding engineering/technical consulting); (f) property management; (g) corporate communications; (h) corporate IT; (i) industry liaison and participation; (j) commercial activities including pricing, billing, revenue collection and marketing; or (k) liaison with Transpower, customers and electricity retailers
Capacity of distributed	means the total capacity of all distributed generation added to the EDB's network
generation installed in year (MVA)	in the disclosure year, measured in MVA
Capex wash-up adjustment	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)(p) 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)(q) of the IM determination Guidance note: (refer to clause 1.4.1(8)-(9)) 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.
Capital contributions	means the value of capital contributions that are paid to the EDB in relation to
funding asset relocations	asset relocation expenditure
Capital contributions funding asset replacement and renewal	means the value of capital contributions that are paid to the EDB in relation to asset replacement and renewal expenditure
Capital contributions funding consumer connection	means the value of capital contributions that are paid to the EDB in relation to consumer connection expenditure
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

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	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)(m) of the IM
	determination; or
	(b) for an EDB subject to a default price-quality path, a cost specified in clause
Catastrophic event	3.1.3(1)(n) of the IM determination
allowance	Guidance note: (refer to clause 1.4.1(8)-(9))
	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.
Cause	means the primary contributing factor
СВ	means circuit breaker
Circuit length	means all lines and cables with the exception of services, street lighting, and
Circuit length	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	means the total length of all circuits operating at the prescribed voltage(s)
operating voltage (at	
year end)	
Class A (planned	means a planned interruption initiated by Transpower
interruptions by	
Transpower)	
Class D (unplanned	means an unplanned interruption originating within the works of Transpower,
interruptions by	where those works are used for carrying out line business activities.
Transpower)	
Class E (unplanned	means an unplanned interruption originating within works used, by the EDB, for
interruptions of EDB	the generation of electricity.
owned generation)	
Class F (unplanned	means an unplanned interruption originating within works used, by persons other
interruptions of	than the EDB, for the generation of electricity.
generation owned by	
others)	
Class G (unplanned	means an unplanned interruption caused by another EDB.
interruptions caused by	
another disclosing	
entity)	

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, sSubpart 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)(ie)(iii) or (if) 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(65) of the IM determination
Commerce Act levies	means a cost specified in clause 3.1.2(2)(b)(i) of the IM determination
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, <u>average</u> debt premium estimates and debt issuance costs as published by the Commission in accordance with clauses 2.4.1 to 2.4.911_of the IM determination for each disclosure year
Cost of executing an interest rate swap	has the meaning given in the IM determination
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 recoverableRecoverable customised price quality path 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)(ii) 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)	means the EDB's assessment of the accuracy of the data provided, using one of the following options-
	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
	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
	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
	4 – means that good quality data is available for all of the assets in the category

Debt issue cost readjustment	has the meaning given in clause 2.4.911(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	means- (a) in relation to the unallocated RAB, the sum of unallocated depreciation calculated in accordance with clause 2.2.6 of the IM determination; (b) in relation to the RAB, depreciation calculated in accordance with clause 2.2.6 or 2.2.8(4) of the IM determination
Depreciation - modified 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)(b) or 2.2.8(2) of the IM determination or where clauses 2.2.8(1)(ed) and 2.2.8(1)(ie)(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
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)(ie)(iv)-(v) of the IM determination or where clauses 2.2.8(1)(ed) and 2.2.8(1)(ie)(iv) of the IM determination apply with reference to assets with a physical asset life determined in accordance with clauses 2.2.8(1)(ed) or 2.2.8(1)(ie)(iv)-(v) or 2.2.8(1)(kg) of the IM determination

Depreciation - standard Depreciation charge for	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 means the depreciation or sum of depreciation as determined in accordance with
the period (RAB)	the IM determination for the relevant asset or assets with non-standard depreciation
Description of transaction	means a brief description of the transaction with a related party, including the goods or services provided to or by the EDB as part of that transaction
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

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Distribution substations	means-
and transformers	(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	means the sum of the capacities of all distribution transformers that are part of, or
capacity (EDB owned)	supplied by, the network and owned by the EDB, expressed in MVA
Distribution transformer	means the sum of the capacities of all distribution transformers that are part of, or
capacity (Non-EDB	supplied by, the network and not owned by the EDB, expressed in MVA. EDBs
owned, estimated)	should make reasonable inquiries in order to obtain an estimate where it is not
,	already known.
Duration (Min)	
Duration (Min)	means the number of minutes between the start and end of the interruption
Electricity exports to	means the total volume of electricity exported from the EDBs network through
GXPs	every GXP to which the network is connected, measured in GWh.
C/II 3	every one to which the network is connected, measured in Gwil.
Electricity lines service	means a cost specified in clause 3.1.3(1)(b) of the IM determination
charge payable to	means a cost specimea in clause 3.213(1)(b) of the initiation
Transpower	
Transpower	
Electricity losses (loss	means (for electricity losses) electricity entering system for supply to consumers'
ratio)	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.
Electricity supplied from	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses)
Electricity supplied from	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all
distributed generation	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh
distributed generation Electricity supplied from	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through
distributed generation	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh
distributed generation Electricity supplied from	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through
distributed generation Electricity supplied from GXPs	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the
distributed generation Electricity supplied from GXPs Electricity volumes	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh
distributed generation Electricity supplied from GXPs Electricity volumes	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the
distributed generation Electricity supplied from GXPs Electricity volumes carried	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh means a cost specified in clause 3.1.3(1)(m) of the IM determination
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance Energy efficiency and	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance Energy efficiency and demand side	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh means a cost specified in clause 3.1.3(1)(m) of the IM determination
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance Energy efficiency and demand side management, reduction	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh means a cost specified in clause 3.1.3(1)(m) of the IM determination means, in relation to expenditure, expenditure on assets or operational
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance Energy efficiency and demand side	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh means a cost specified in clause 3.1.3(1)(m) of the IM determination means, in relation to expenditure, expenditure on assets or operational expenditure where the primary driver is to improve the efficient provision of
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance Energy efficiency and demand side management, reduction	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh means a cost specified in clause 3.1.3(1)(m) of the IM determination 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-
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance Energy efficiency and demand side management, reduction	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh means a cost specified in clause 3.1.3(1)(m) of the IM determination 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- (a) improving energy efficiency, including by increasing the amount of energy
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance Energy efficiency and demand side management, reduction	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh means a cost specified in clause 3.1.3(1)(m) of the IM determination 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- (a) improving energy efficiency, including by increasing the amount of energy services consumed or able to be consumed per unit of energy input;
distributed generation Electricity supplied from GXPs Electricity volumes carried Energy efficiency and demand incentive allowance Energy efficiency and demand side management, reduction	estimated. (Note: the resulting loss ratio will comprise both technical and non-technical losses) means the net volume of electricity supplied into the EDB's network from all distributed generation connected to the network, measured in GWh means the total volume of electricity supplied into the EDB's network through every GXP to which the network is connected, measured in GWh means the volume of electricity measured at the specified location within the power system in the specified year, in GWh means a cost specified in clause 3.1.3(1)(m) of the IM determination 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- (a) improving energy efficiency, including by increasing the amount of energy services consumed or able to be consumed per unit of energy input; (b) encouraging demand side management, including by managing consumers'

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	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)(n) 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)(o) of the IM determination Guidance note: (refer to clause 1.4.1(8)-(9)) 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.
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

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Gains / (losses) on asset	means, in relation to-
disposals	(a) asset disposals to a related party, nil;
a.spesa.s	(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)
6 1 4	
Grade 1	means end of serviceable life, immediate intervention required
Grade 2	means material deterioration but asset condition still within serviceable life
	parameters. Intervention likely to be required within 3 years.
Grade 3	means normal deterioration requiring regular monitoring
Grade 4	means good or as new condition
Crada unimanus	was a sandiki sa waka sanga kuta sa sa sa d
Grade unknown	means condition unknown or not yet assessed
Gross term credit spread	means the sum of term credit spread difference, cost of executing an interest rate
differential	swap and debt issue cost readjustment for qualifying debt
unierentiai	Swap 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.
<u>H1</u>	means replacement recommended
	Guidance note: (refer to clause 1.4.1(8)-(9))
	This grade is derived from Figure 1 of the Electricity Engineers' Association
	Asset Health Indicator Guide, published January 2016.
<u>H2</u>	means end of life drivers for replacement present, high asset related risk
	Guidance note: (refer to clause 1.4.1(8)-(9))
	This grade is derived from Figure 1 of the Electricity Engineers' Association
	Asset Health Indicator Guide, published January 2016.
<u>H3</u>	means end of life drivers for replacement present, increasing asset related risk
	Guidance note: (refer to clause 1.4.1(8)-(9))
	This grade is derived from Figure 1 of the Electricity Engineers' Association
	Asset Health Indicator Guide, published January 2016.
НЛ	means asset serviceable – no drivers for replacement, normal in service
<u>H4</u>	<u>means asset serviceable – no drivers for replacement, normal in service</u>
	deterioration
	Cuidanas nata (nafanta climas 4.4.4(0) (0))
	Guidance note: (refer to clause 1.4.1(8)-(9))
	This grade is derived from Figure 1 of the Electricity Engineers' Association
	Asset Health Indicator Guide, published January 2016.
1	

<u>H5</u>	means as new condition – no drivers for replacement
	Guidance note: (refer to clause 1.4.1(8)-(9)) This grade is derived from Figure 1 of the Electricity Engineers' Association Asset Health Indicator Guide, published January 2016.
HV	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
Highest rate of capitalised finance applied	means the highest rate of finance used as the cost of financing capitalised in works under construction
Human error	means all unplanned customer interruptions resulting from contractors or staff, commissioning errors, incorrect protection settings, SCADA problems, switching errors, dig-in and overhead contact.
Impact of financial incentives on ROIs	means- $q = a - b$ where $a = ROI - comparable to a vanilla WACC - reflecting all revenue earned b = ROI - comparable to a vanilla WACC - excluding revenue earned from financial incentives$
Impact of wash-up costs on ROIs	means- $q = a - b$ where $a = ROI - comparable to a vanilla WACC - excluding revenue earned from financial incentives b = ROI - comparable to a vanilla WACC - excluding revenue earned from financial incentives and wash-up costs$
Income included in regulatory profit / (loss) before tax but not taxable	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
Income not included in regulatory profit / (loss) before tax but taxable	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
Incremental gain/(loss) in year	means the incremental change or incremental adjustment term for the disclosure year determined in accordance with clause 3.3.1 of the IM determination

Industry levies	means_
	(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
	(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) of the IM determination
	3.1.2(1)(b)(1) and 3.1.2(2)(b)(1) (11) of the five determination
	Guidance note: (refer to clause 1.4.1(8)-(9))
	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.
Input methodology	means a cost specified in clause 3.1.3(1)(g) of the IM determination
claw-back	
Installed Firm Capacity	means the capacity as at the last day of the disclosure year that can be delivered
	from an existing zone substation following:
	(a) an outage of the highest capacity item of primary equipment within the zone
	substation; or
	Substation, or
	(b) the highest capacity circuit supplying the zone substation.
	(a) the ingliest capacity cheart supplying the zone substation
	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
	. ,
Installed Firm Capacity +	means the Installed Firm Capacity forecast by the EDBBD to be installed at the end
5 years	of the year that is 5 years after the disclosure year, expressed in MVA
Installed Firm Capacity	means the cause of any capacity constraint that is forecast by the EDB to impact
Constraint +5 years	the existing zone substation at the end of the year that is 5 years after the
(cause)	disclosure year. The cause must be selected from the following options-
	subtransmission circuit
	transformer
	ancillary equipment
	_
	Transpower
	• other
	no constraint forecast within 5 years
	- no constraint forecast within 5 years
Insurance	means a contract of insurance as defined in the Insurance (Prudential Supervision)
	Act 2010
Issue date	means the day on which a qualifying debt or non-qualifying debt is issued
issue date	means the day on which a qualifying debt of hon-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
	where $a = $ electricity entering system for supply to customers' connection points $b = $ demand on the system for supply to customers' connection points $c = $ 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	means expenses cash outflow plus assets com	missioned less asset disposals plus
outflows	tax payments less other regulated income	
Monthly net cash	means expenses cash outflow plus assets commissioned less asset disposals less	
outflows	other regulated income	
Monthly ROI —	means the monthly ROI comparable to the vanilla WACC less the product of the	
comparable to a post	cost of debt (%), the leverage and the corporate tax rate	
tax WACC		
Monthly ROI —	means the internal rate of return for a schedule of cash flows that occur according	
comparable to a vanilla	to a schedule of dates where the schedules of cash flows and dates are-	
WACC	Cash flows	<u>Dates</u>
WACC	- 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
Name of related party	means the legal name of the related party tha	
1	the EDB	
Net electricity supplied	means the volume of electricity supplied from (to) the disclosing EDB's network to	
to (from) other EDBs	(from) other EDBs	
Net incremental rolling	means the sum of previous years' incremental gain/loss from the 5 disclosure years	
incentive scheme	preceding the current disclosure year	
	processing and carriers and and are	
Net recoverable costs	means, where-	
allowed under	(a) net incremental rolling incentive scheme is positive, net incremental rolling	
incremental rolling	incentive scheme;	
incentive scheme	(b) net incremental rolling incentive scheme	e is nil or negative, nil
Net transfers to (from)	means the total rate of power transfer to (from) other EDB's networks to which the	
other EDBs at HV and	EDB's network is connected, measured in MW	1
above		
Network opex	means the sum of operational expenditure rel	ating to service interruptions and
	emergencies, vegetation management, routin	•
	inspection, and asset replacement and renewa	
New allocation	means the operating costs or regulated service asset values allocated to electricity	
	distribution services in accordance with the ne	·
	of the relevant disclosure years	
New allocator or line	means the allocator or line items that are used subsequent to the change in	
item	allocator or line items	
No. with age unknown	means the total quantity of assets in the preso	cribed asset category and asset class
	installed in the network for which no installati	on 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 Number of assets at	means, for the purposes of Schedule 8, the revenue anticipated from posted discounts had they not been applied. Posted discounts has: (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. Guidance note: (refer to clause 1.4.1(8)-(9)) 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. means the total quantity of assets in the prescribed asset category and asset class
disclosure year end by installation date	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
ОН	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	means the sum of opening RAB values as determined in accordance with the IM
values without	determination, calculated as if no amount of revaluation calculated in accordance
revaluations	with the IM determination had been included in the calculation of any of those
revaluations	opening RAB values following the determination of the initial RAB
Opening sum of	means the sum of regulatory tax asset values for assets included in the total
regulatory tax asset	opening RAB value plus the regulatory tax asset values of assets referred to in
values	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	has the meaning given in clause 2.3.5(2) of the IM determination
initial differences in	
asset values	
Opening value of fully	means
depreciated, disposed	
and lost assets	
and lost assets	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	has the meaning given in clause 2.3.5(4) of the IM determinationmeans
average remaining	-q = a - b
useful life of relevant	where:
assets (years)	α = the 2010 weighted average remaining asset life of assets included in
	the initial RAB calculated by using initial RAB values as weights, where
	remaining asset life is the remaining asset life as defined in the IM
	determination
	b = disclosure year less 2010
Operating surplus /	means total regulatory income less operational expenditure less pass through and
(deficit)	recoverable costs excluding financial incentives and wash-ups
Original allocation	mans the enerational expenditure or regulated service asset values allocated to
Original allocation	means the operational expenditure or regulated service asset values allocated to
	electricity distribution services in accordance with the allocations and line items
Original allocator or line	made in the previous disclosure year means the allocator or line items that were used prior to the change in allocator or
Original allocator or line items	line items
items	line items
Original tenor	means-
	(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;
	(b) where the qualifying debt or non-qualifying debt is issued to a related party,
	the shorter of the-
	(i) the tenor of the qualifying debt; or
	(ii) the period from the qualifying debt's issue date to the earliest date on
	which its repayment is or may be required

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Other adjustments to	means
the RAB tax value	q = a - (b + c - d - e + f + g)
	q - u (b + c + u + c + j + g)
	where:
	a = closing sum of regulatory tax asset values
	b = opening sum of regulatory tax asset values
	c = regulatory tax asset value of assets commissioned
	d = regulatory tax asset value of asset disposals
	$oldsymbol{e}$ = tax depreciation
	f = lost and found assets adjustment
	g = adjustment resulting from asset allocation
Other financial	means recoverable costs specified by the Commission in a CPP determination using
incentives	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
Other network assets	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
Other recoverable costs	means recoverable costs specified by the Commission in a CPP determination using
excluding financial	an input methodology variation under clause 53V(2)(c) of the Act, excluding other
incentives and wash-ups	financial incentives and other wash-ups
Other regulated income	has the meaning given in the IM determination
Other regulated income	means other regulated income excluding gains / (losses) on asset disposals
(other than gains /	
(losses) on asset	
disposals)	
Other related party	means the value of related party transactions that are not disclosed as total
transactions	regulatory income, operational expenditure, capital expenditure or market value of
	asset disposals
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	has the meaning given in the IM determination
increase	
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	means-
adjustment	(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
	(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
	Guidance note: (refer to clause 1.4.1(8)-(9))
	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
	<u>DPP in force from 1 April 2020 (see clause 1.1.2(4)(c)(i) and 1.1.2(4)(d)).</u>
	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.
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	means-
depreciation	(a) in relation to assets or groups of assets where depreciation is included in
	depreciation - no standard life asset, 'no standard life';
	(b) in relation to assets or groups of assets where depreciation is included in
	depreciation - modified life assets, 'modified life';
	(C) in relation to assets or groups of assets where depreciation is included in
	depreciation - alternative depreciation determined in accordance with
	CPP, 'CPP amendment'
Reconsideration event	maans-
allowance	means_ (a) for an EDB subject to a customised price-quality path commencing after 20
allowance	December 2016, a cost specified in clause 3.1.3(1)(s) 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)(t) of the IM determination
	Guidance note: (refer to clause 1.4.1(8)-(9))
	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.
Recoverable costs	has the meaning set out in the IM determination
Recoverable customised	means costs specified in either clause 3.1.3(1)(h),(i),(j),(k) or (l) of the IM
price-quality path costs	determination
Regulated supplier	has the meaning given in the IM determination

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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)	means the value of q calculated using the following formula:
before tax	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	means the sum of regulatory tax asset values for assets that have a value in asset
value of asset disposals	disposals
Regulatory tax asset	means the sum of regulatory tax asset values for assets that have a value in assets
value of assets	commissioned
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-
	 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 — comparable to a post tax WACC

means-

(a) in relation to the ROI – comparable to a post tax WACC reflecting all revenue earned

$$q = a - (d \times e \times f)$$

(b) in relation to the ROI – comparable to a post tax WACC excluding revenue earned from financial incentives

$$q = b - (d \times e \times f)$$

(c) in relation to the ROI – comparable to a post tax WACC excluding revenue earned from financial incentives and wash-ups

$$q = c - (d \times e \times f)$$

where

a = ROI – comparable to a vanilla WACC reflecting all revenue earned

 $b = \mathsf{ROI} - \mathsf{comparable}$ to a vanilla WACC excluding revenue earned from financial incentives

 $\it c$ = ROI – comparable to a vanilla WACC excluding revenue earned from financial incentives and wash-ups

d = cost of debt assumption

e = leverage

f = corporate tax rate

vanilla WACC	to a schedule of dates where the schedules of cash (a) in relation to the ROI — comparable to a v	flows and dates-
	(a) in relation to the ROI – comparable to a v	
	(a) Intelation to the Not comparable to a v	anilla WACC reflecting all
	revenue earned, are-	
	Cash flows	<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
	(b) in relation to the ROI – comparable to a v	anilla WACC excluding revenue
	earned from financial incentives, are-	
	<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
	(c) in relation to the ROI — comparable to a v	anilla WACC excluding revenue
	earned from financial incentives and wash	
	<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 	182 days before year-end
	corporate tax rate))	
	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
Routine expenditure	means expenditure on assets related to non-netwo expenditure	rk assets that is not atypical
Rugged	means a circuit, or a section of a circuit, installed in construction vehicles and plant cannot be used and helicopters, tracked vehicles, boats, or other special physical or climatic conditions involving swampy gr	I where it is necessary to use lised plant or where difficult ound, high winds or snow exist
	and non standard line construction designs are emple conditions	oloyed to accommodate these
Rural	means a circuit, or a section of a circuit, installed in average HV span length is approximately 70 - 80 methose circuits located in remote and/or rugged area.	etres, and does not include
SAIDI reliability limit	means the SAIDI reliability limit that applies to the the disclosure year under an applicable s52P determined the control of t	

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	 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- 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

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Total regulatory income	 (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 clauses 2.3.6 and 2.3.7 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 Guidance note: (refer to clause 1.4.1(8)-(9)) 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.
Transmission line charge revenue	means line charge revenue relating to transmission charges
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	means a circuit, or a section of a circuit, installed in an area that is not an urban,
lines	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 EDBD 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
Value of transaction	means the value of the related party transaction as determined in accordance with
	clauses 2.3.6 and 2.3.7 of this determination
Vegetation	means all unplanned customer interruptions resulting from vegetation contact, includes debris, grass and tree contact.
WACC rate used to set	means-
regulatory price path	 (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; Guidance note: (refer to clause 1.4.1(8)-(9)) 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. (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 (c) in relation to an EDB not subject to price-quality regulation, 'n/a'
Wash-up costs	means the sum of- (a) input methodology claw-back; (b) CPP application recoverable customised price-quality path costs; (c) catastrophic event allowance; (d) capex wash-up adjustment; (e) transmission asset wash-up allowance; (f) 2013-2015 NPV wash-up allowance; (g) reconsideration event allowance; and (h) other wash-ups

Weighted average	means the weighted average expected total asset life of assets calculated by using
expected total asset life	the opening RAB values as weights where opening RAB value has the meaning
	given in the IM determination
Weighted average	means the weighted average remaining asset life of assets calculated by using the
remaining asset life	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 –	means the year-end ROI comparable to the vanilla WACC less the product of the
comparable to a post	cost of debt assumption(%), the leverage and the corporate tax rate
tax WACC	
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	means the sum of the capacities of all zone substation transformers that are part of
transformer capacity	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

Clause 2.9.2

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, 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, related party costs and revenues valued or disclosed recorded in accordance with subclauses 2.3.6(1) 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(when valued in accordance with clause 2.2.11(5)(h)(ii) of the Electricity Distribution Services Input Methodologies Determination 2010), 2.3.6(1)(f) and 2.3.7(2)(b), we certify that, having made all reasonable enquiry, including enquiries of our related parties, we are satisfied that
 - i. to the best of our knowledge and belief-the costs and valuescosts and revenues recorded for related party transactions reasonably reflect the price or prices that would have been paid or received had these transactions been at arm's length 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
 - in 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.]
- c)d) * [in respect of the application of OVABAA in the allocation of costs or assets in accordance with clause 2.1.45 of the Electricity Distribution Services Input Methodologies Determination 2012 IM determination, we certify that, having made all reasonable enquiry, including enquiries of our related policies, we are satisfied that to the best of our knowledge and belief, the unregulated service would be unduly deterred if the OVABAA allocation was less than that disclosed.]

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* Delete if inapplicable

[Signatures of 2 directors] [Date]