

Cost of capital determination for customised price-quality path proposals made by Powerco Limited for gas distribution services [2015] NZCC 10

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Executive summary

1. This determination specifies weighted average cost of capital (WACC) estimates that will apply to any customised price-quality path (CPP) proposals for gas distribution services made by Powerco Limited (Powerco). The WACC estimates in this determination apply to any CPP proposals made by Powerco from the date of this determination until the next CPP WACC determination for Powerco is made in March 2016.
2. Vanilla WACC estimates for CPP proposals made by Powerco are summarised in Table 1 below. The vanilla WACC is a weighted average of the pre-corporate tax cost of debt and the post-tax cost of equity.

Table 1: Summary of vanilla WACC estimates for Powerco proposals (%)¹

	Mid-point	67 th percentile
Vanilla WACC (3 years)	6.72	7.25
Vanilla WACC (4 years)	6.70	7.23
Vanilla WACC (5 years)	6.72	7.25

3. 67th percentile estimates of vanilla WACC are used for CPPs. The WACCs are estimated as at 1 March 2015.

¹ The associated mid-point post-tax WACCs for five, four and three years are 6.08%, 6.06% and 6.07% respectively. The 67th percentile post-tax WACCs for five, four and three years are 6.61%, 6.59% and 6.60% respectively.

Introduction

4. This determination sets vanilla WACC estimates that will apply to CPP proposals for gas distribution services made by Powerco.
5. Vanilla WACCs for CPP proposals made by Powerco are set under clauses 5.3.22 to 5.3.29 of the Gas Distribution Services Input Methodologies Determination 2012 (the GDS IM Determination).² Consistent with our 2014 review of the WACC percentile for electricity lines and gas pipeline businesses, 67th percentile estimates of vanilla WACC are used for CPP proposals made by gas distribution businesses.³
6. The parameter values, estimates and information sources used for each WACC estimate are set out in this determination. Additional commentary on the estimation of the risk-free rate and the debt premium is also provided.
7. For example, this determination identifies the issuers and bonds that were analysed (including the credit rating and remaining term to maturity) when estimating the debt premium. The commentary also explains which debt premium estimates were given greater weight than other estimates.

Background

Changes in the risk-free rate and debt premium over time

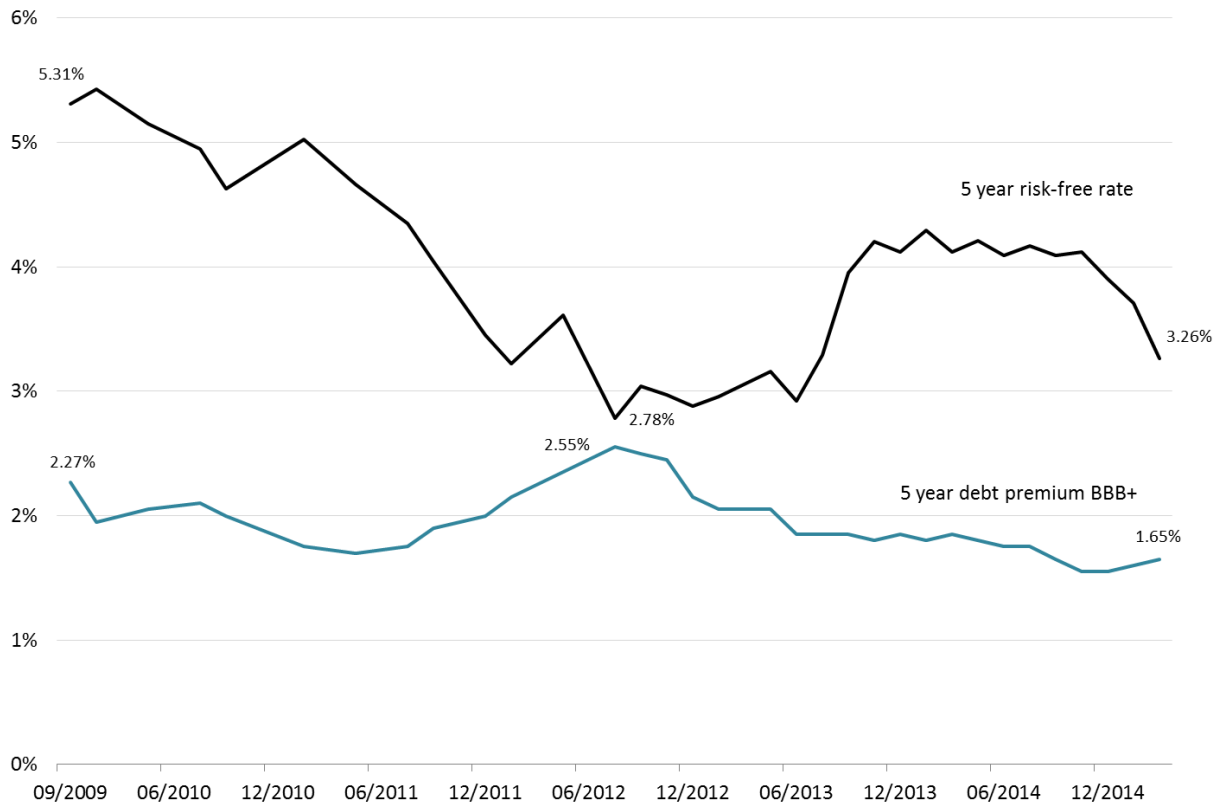
8. The cost of capital input methodologies for regulated services reflect that both the risk-free rate and the debt premium on bonds change over time.⁴
9. Changes in the risk-free rate and debt premium on bonds are illustrated below. Figure 1 shows, as at 1 March 2015, changes over time in the:
 - 9.1 five year risk-free rate; and
 - 9.2 debt premium on bonds rated BBB+ with a term of five years.

² *Gas Distribution Services Input Methodologies Determination 2012* [2012] NZCC 27, as subsequently amended.

³ Commerce Commission “Amendment to the WACC percentile for price-quality regulation for electricity lines services and gas pipeline services – Reasons paper” (30 October 2014); and *Electricity Lines Services and Gas Pipeline Services Input Methodologies Determination Amendment (WACC percentile for price-quality regulation) 2014* [2014] NZCC 27.

⁴ The risk-free rate is estimated based on an interpolation of bid yields on New Zealand government stock to a term to maturity of five years, four years and three years. The debt premium is estimated on publicly traded corporate bonds according to the methodology specified in the GDS IM Determination.

Figure 1: Changes in the risk-free rate and debt premium over time



Reasons for differences in WACC under the various cost of capital input methodologies determinations

10. Differences in the WACCs estimated under the various cost of capital input methodologies reflect differences in the:
 - 10.1 date of estimation for the WACCs, which results in different estimates of the risk-free rate and debt premium;
 - 10.2 periods in which the WACCs will apply;
 - 10.3 context in which the WACCs will be used (67th percentile WACC estimates are used for the purposes of price-quality paths, while a mid-point and range is determined for information disclosure);
 - 10.4 assessed risk of the various regulated services (electricity distribution businesses (EDBs) and Transpower have an asset beta of 0.34, gas pipeline businesses (GPBs) have an asset beta of 0.44 and airports have an asset beta of 0.60); and
 - 10.5 value of leverage for airports (17%) and for EDBs, GPBs, and Transpower (44%).

WACC for CPP proposals made by Powerco's GDB

11. Under clause 5.3.28 of the GDS IM Determination, we have determined (as at 1 March 2015) the following 67th percentile vanilla WACC estimates for inclusion in CPP proposals made by Powerco for the supply of gas distribution services:
 - 11.1 7.25% for a five year period;
 - 11.2 7.23% for a four year period; and
 - 11.3 7.25% for a three year period.

Parameters used to estimate the WACC

12. The above estimates of vanilla WACC reflect the parameters specified in the GDS IM Determination. The risk-free rate and debt premium are also estimated in accordance with the GDS IM Determination.

Summary of parameters

13. The parameters used to estimate the vanilla WACCs are summarised in Table 2 below.

Table 2: Parameters used to calculate vanilla WACC for Powerco GDB CPP proposal

Parameter	3 year estimate	4 year estimate	5 year estimate
Risk-free rate	3.24%	3.24%	3.26%
Debt premium	1.45%	1.55%	1.65%
Leverage	44%	44%	44%
Equity beta	0.79	0.79	0.79
Tax adjusted market risk premium	7.0%	7.0%	7.0%
Average corporate tax rate	28%	28%	28%
Average investor tax rate	28%	28%	28%
Debt issuance costs	0.58%	0.44%	0.35%
Cost of debt	5.27%	5.23%	5.26%
Cost of equity	7.86%	7.86%	7.88%
Standard error of debt premium	0.0015	0.0015	0.0015
Standard error of WACC	0.012	0.012	0.012
Mid-point vanilla WACC	6.72%	6.70%	6.72%

Note: The cost of debt is calculated as the risk-free rate + debt premium + debt issuance costs. The cost of equity is calculated as the risk-free rate \times (1 - investor tax rate) + the equity beta \times the tax adjustment market risk premium. The mid-point vanilla WACC is calculated as the cost of equity \times (1 - leverage) + the cost of debt \times leverage.

Risk-free rate

- The risk-free rate reflects the linearly-interpolated, annualised, bid yield to maturity on New Zealand government bonds with a term to maturity of five, four and three years. The estimates use data reported by Bloomberg for the month of February 2015 in respect of the December 2017, March 2019 and April 2020 maturity bonds. The December 2017, March 2019 and April 2020 bonds have simple average annualised bid yields to maturity of 3.24%, 3.24% and 3.26% respectively.

15. The daily data reported by Bloomberg is annualised (to reflect the six monthly payment of interest), averaged to give a monthly average, and linearly-interpolated to produce the following estimates of interest rates on New Zealand government bonds (as at 1 March 2015):
- 15.1 3.26% with a five year term to maturity;
 - 15.2 3.24% with a four year term to maturity; and
 - 15.3 3.24% with a three year term to maturity.

Tax rates

16. The average corporate tax rate is the corporate tax rate of 28% for all years. The average investor tax rate is the investor tax rate of 28% for all years.

Standard error of the WACC

17. The standard error of the WACC is determined in accordance with the formula in the GDS IM Determinations, and is shown to three decimal places only in Table 2 above.

Debt premium

18. The methodology for determining the debt premium is set out in clause 5.3.25 of the GDS IM Determination.
19. Clause 5.3.25(3)(d) requires the Commission to estimate the debt premium that would reasonably be expected to apply to a vanilla NZ\$ denominated bond that:
- 19.1 is issued by a GPB or an EDB that is neither majority owned by the Crown nor a local authority;⁵
 - 19.2 is publicly traded;
 - 19.3 has a qualifying rating of grade BBB+; and
 - 19.4 has a remaining term to maturity of five years (or four or three years, as applicable under clause 5.3.25(6) of the GDS IM Determination).

⁵ Clause 5.3.25(3)(d)(i) of the GDS IM Determination refers to a bond issued by a “GDB” rather than a “GPB or an EDB”. However, clauses 5.3.25(4)(a)-(e), which describe the bonds the Commission will have regard to for the purpose of sub clause (3)(d), refer to bonds issued by “a GPB or an EDB”.

20. In estimating the debt premium, clause 5.3.25(4) of the GDS IM Determination provides that the Commission will have regard to:
 - 20.1 bonds issued by an EDB or a GPB (that is neither majority owned by the Crown nor a local authority) with a rating of BBB+;
 - 20.2 bonds issued by another entity (that is neither majority owned by the Crown nor a local authority) with a rating of BBB+;
 - 20.3 bonds issued by an EDB or a GPB (that is neither majority owned by the Crown nor a local authority) with a rating other than BBB+;
 - 20.4 bonds issued by another entity (that is neither majority owned by the Crown nor a local authority) with a rating other than BBB+; and
 - 20.5 bonds issued by entities that are majority owned by the Crown or a local authority.
21. Clause 5.3.25(5)(a) provides that progressively lesser regard will ordinarily be given to the debt premium estimates in the order that the bonds are identified in clauses 5.3.25(4)(a) to (e).
22. Table 3, Table 4, and Table 5 below show the debt premiums for terms of five, four and three years respectively, determined as at 1 March 2015. These tables include a summary of information on the investment grade rated bonds we considered in determining the debt premiums.
23. A spreadsheet showing the calculations for the debt premium (and the risk-free rate) is published on our website.⁶

⁶ See www.comcom.govt.nz/cost-of-capital

Five year debt premium

24. Table 3 below shows the five year debt premium on an EDB/GPB-issued bond rated BBB+, as at 1 March 2015.

Table 3: Debt premium on an EDB/GPB-issued bond rated BBB+ with a remaining term of 5 years, as at 1 March 2015⁷

	Industry	Rating	Remaining term to Maturity	Debt premium	Comment
Determined debt premium	EDB/GPB	BBB+	5.0	1.65	Regard to results 4(b), 4(c) and 4(d) Generally consistent with 4(e)

Subclause	Issuer	Note ref.	Industry	Rating	Remaining term to Maturity	Debt premium	Comment
4(a)	-	-	-	-	-	-	No data on applicable bonds
4(b)	WIAL	1	Other	BBB+	5.3	1.72	5 year debt premium would be slightly lower
4(c)	Powerco	2	EDB/GPB	BBB	0.3	0.93	5 year debt premium would be significantly higher BBB+ debt premium would be lower
4(d)	Spark	3	Other	A-	4.7	1.31	BBB+ and 5 year debt premium would be higher
	AIAL	4	Other	A-	5.0	1.09	BBB+ debt premium would be higher
	Contact	5	Other	BBB	5.0	1.53	BBB+ debt premium would be lower
	Fonterra	6	Other	A	5.0	1.10	BBB+ debt premium would be significantly higher
4(e)	Meridian	7	Other	BBB+	2.0	1.05	
	Genesis Energy	8	Other	BBB+	5.0	1.51	
	MRP	9	Other	BBB+	5.0	1.58	
	CIAL	10	Other	BBB+	5.0	1.50	
	Transpower	11	Other	AA-	5.0	1.00	

Notes on bonds analysed:

- 1 WIAL 5.27% bond maturing 11/06/2020.
- 2 Powerco 6.53% bond maturing 29/06/2015.
- 3 Spark 5.25% bond maturing 25/10/2019.
- 4 AIAL 4.73% bond maturing 13/12/2019; 5.52% bond maturing 28/05/2021.
- 5 Contact Energy 5.8% bond maturing 15/05/2019; 5.277% bond maturing 27/05/2020.
- 6 Fonterra 4.6% bond maturing 24/10/2017; 5.52% bond maturing 25/02/2020.
- 7 Meridian 7.55% bond maturing 16/03/2017.
- 8 Genesis Energy 5.205% bond maturing 1/11/2019; 8.3% bond maturing 23/06/2020.
- 9 MRP 5.029% bond maturing 6/03/2019; 8.21% bond maturing 11/02/2020.
- 10 CIAL 5.15% bond maturing 6/12/2019; 6.25% bond maturing 4/10/2021.
- 11 Transpower 7.19% bond maturing 12/11/2019; 6.95% bond maturing 10/06/2020.

25. Consistent with clauses 5.3.25(4) and 5.3.25(5)(a) of the GDS IM Determination, greatest regard has been given to the estimated debt premium on Wellington International Airport Limited's (WIAL's) June 2020 bond. This bond is issued by an entity other than an EDB/GPB, is publicly traded and has a rating of BBB+. The June

⁷ The five-year debt premiums on the Auckland International Airport Limited, Contact Energy, Fonterra, Genesis Energy, Mighty River Power, Christchurch International Airport Limited and Transpower bonds are calculated by linear interpolation with respect to maturity.

2020 bond has a term to maturity of 5.3 years, which is slightly more than five years specified in clause 5.3.25(3)(d).

26. As at 1 March 2015, the debt premium on the WIAL bond was estimated at 1.72%. This implies the debt premium on a bond with a term of exactly five years would be slightly lower (approximately 1.65%)
27. The debt premium on Powerco's June 2015 maturity bond is 0.93%. This bond has a term to maturity of 0.3 years, which is much less than the five years specified in clause 5.3.25(3)(d), and implies that an estimate for a five year term would be significantly above 0.93%.⁸ On the other hand, Powerco's bonds are rated BBB which is less than the BBB+ specified in clause 5.3.25(3)(d). These considerations do not alter our view that a debt premium of approximately 1.65% is appropriate for BBB+ rated bonds with a five year term to maturity.
28. We have also had regard to the estimated debt premium on bonds from a range of other issuers including Spark (1.31%, 4.7 years, rated A-), Auckland International Airport Limited (AIAL) (1.09%, 5 years, rated A-), Contact Energy (1.53%, 5 years, rated BBB) and Fonterra (1.10%, 5 years, rated A). Consistent with clause 5.3.25(5)(a) these were given less weight as the issuers are not EDBs or GPBs, and the debt issues had different credit ratings than the BBB+ rating specified in clause 5.3.25(3)(d).⁹
29. The estimated debt premium on the Genesis Energy bonds (1.51%, 5 years, rated BBB+), the Mighty River Power (MRP) bonds (1.58%, 5 years, rated BBB+), the Meridian bond (1.05%, 2.0 years, rated BBB+), the Christchurch International Airport Limited (CIAL) bond (1.50%, 5 years, rated BBB+), and Transpower bonds (1.00%, 5 years, rated AA-) were given less weight. Taking into account the likely impact of Government ownership, the premiums on these bonds generally support the view that the estimate of the debt premium we use should be above 1.60%.
30. Placing primary weight on the estimated debt premium on the WIAL bond (which has a term slightly longer than our benchmark term), but having regard to the debt premium on a range of other bonds, we have determined the debt premium on a publicly traded, EDB/GPB-issued bond, rated BBB+ with a remaining term of five years to be 1.65% as at 1 March 2015.

⁸ For example, Powerco also has bonds maturing on 28 September 2017 (2.6 years to maturity) and 20 December 2018 (3.8 years to maturity), with observed debt premiums of 1.37% and 1.62% respectively. However, these bonds are secured against the network assets of the company so are not included in Table 3 above.

⁹ Telstra is not included in category 4(d) of Table 3 because it is not a New Zealand resident limited liability company (as required by the definition of "qualifying issuer" in the GDS IM Determination).

Four year debt premium

31. Table 4 below shows the four year debt premium on an EDB/GPB-issued bond rated BBB+, as at 1 March 2015.

Table 4: Debt premium on an EDB/GPB-issued bond rated BBB+ with a remaining term of 4 years, as at 1 March 2015¹⁰

	Industry	Rating	Remaining term to Maturity	Debt premium	Comment
Determined debt premium	EDB/GPB	BBB+	4.0	1.55	Regard to results 4(b), 4(c) and 4(d) Generally consistent with 4(e)

Subclause	Issuer	Note ref.	Industry	Rating	Remaining term to Maturity	Debt premium	Comment
4(a)	-	-	-	-	-	-	No data on applicable bonds
4(b)	WIAL	1	Other	BBB+	5.3	1.72	4 year debt premium would be lower
4(c)	Powerco	2	EDB/GPB	BBB	0.3	0.93	4 year debt premium would be significantly higher BBB+ debt premium would be lower
4(d)	Spark	3	Other	A-	4.0	1.20	BBB+ debt premium would be higher
	AIAL	4	Other	A-	4.0	0.99	BBB+ debt premium would be higher
	Contact	5	Other	BBB	4.0	1.52	BBB+ debt premium would be lower
	Fonterra	6	Other	A	4.0	0.98	BBB+ debt premium would be significantly higher
4(e)	Meridian	7	Other	BBB+	2.0	1.05	
	Genesis Energy	8	Other	BBB+	4.0	1.33	
	MRP	9	Other	BBB+	4.0	1.47	
	CIAL	10	Other	BBB+	4.0	1.49	
	Transpower	11	Other	AA-	4.0	0.87	

Notes on bonds analysed:

- 1 WIAL 5.27% bond maturing 11/06/2020.
- 2 Powerco 6.53% bond maturing 29/06/2015.
- 3 Spark 7.04% bond maturing 22/03/2016; 5.25% bond maturing 25/10/2019.
- 4 AIAL 5.47% bond maturing 17/10/2016; 4.73% bond maturing 13/12/2019
- 5 Contact Energy 4.8% bond maturing 24/05/2018; 5.8% bond maturing 15/05/2019.
- 6 Fonterra 4.6% bond maturing 24/10/2017; 5.52% bond maturing 25/02/2020.
- 7 Meridian 7.55% bond maturing 16/03/2017.
- 8 Genesis Energy 7.185% bond maturing 15/09/2016; 5.205% bond maturing 1/11/2019.
- 9 MRP 7.55% bond maturing 12/10/2016; 5.029% bond maturing 6/3/2019.
- 10 CIAL 5.15% bond maturing 6/12/2019.
- 11 Transpower 5.14% bond maturing 30/11/2018; 4.65% bond maturing 6/09/2019.

32. Consistent with clauses 5.3.25(4) and 5.3.25(5)(a) of the GDS IM Determination, greatest regard has been given to the estimated debt premium on WIAL's June 2020 bond. This bond is issued by an entity other than an EDB/GPB, is publicly traded and has a rating of BBB+. The June 2020 bond has a term to maturity of 5.3 years, which is more than four years specified in clause 5.3.25(3)(d).

¹⁰ The four-year debt premiums on the Spark, AIAL, Contact Energy, Fonterra, Genesis Energy, Mighty River Power, CIAL and Transpower bonds are calculated by linear interpolation with respect to maturity.

33. As at 1 March 2015, the debt premium on the WIAL bond was estimated at 1.72%. This implies the debt premium on a bond with a term of exactly four years would be lower (approximately 1.55%)
34. The debt premium on Powerco's June 2015 maturity bond is 0.93%. This bond has a term to maturity of 0.3 years, which is much less than the four years specified in clause 5.3.25(3)(d), and implies that an estimate for a four year term would be significantly above 0.93%. On the other hand, Powerco's bonds are rated BBB which is less than the BBB+ specified in clause 5.3.25(3)(d). These considerations do not alter our view that a debt premium of approximately 1.55% is appropriate for BBB+ rated bonds with a four year term to maturity.
35. We have also had regard to the estimated debt premium on bonds from a range of other issuers including Spark (1.20%, 4 years, rated A-), AIAL (0.99%, 4 years, rated A-), Contact Energy (1.52%, 4 years, rated BBB) and Fonterra (0.98%, 4 years, rated A). Consistent with clause 5.3.25(5)(a) these were given less weight as the issuers are not EDBs or GPBs, and the debt issues had different credit ratings than the BBB+ rating specified in clause 5.3.25(3)(d).
36. The estimated debt premium on the Genesis Energy bonds (1.33%, 4 years, rated BBB+), the MRP bonds (1.47%, 4 years, rated BBB+), the Meridian bond (1.05%, 2 years, BBB+), the CIAL bond (1.49%, 4 years, rated BBB+), and Transpower bonds (0.87%, 4 years, rated AA-) were given less weight. Taking into account the likely impact of Government ownership, the premiums on these bonds generally support the view that the estimate of the debt premium we use should be above 1.50%.
37. Placing primary weight on the estimated debt premium on the WIAL bond (which has a term longer than our benchmark term), but having regard to the debt premium on a range of other bonds, we have determined the debt premium on a publicly traded, EDB/GPB-issued bond, rated BBB+ with a remaining term of five years to be 1.55% as at 1 March 2015.

Three year debt premium

38. Table 5 below shows the three year debt premium on an EDB/GPB-issued bond rated BBB+, as at 1 March 2015.

Table 5: Debt premium on an EDB/GPB-issued bond rated BBB+ with a remaining term of 3 years, as at 1 March 2015¹¹

	Industry	Rating	Remaining term to Maturity	Debt premium	Comment
Determined debt premium	EDB/GPB	BBB+	3.0	1.45	Regard to results 4(b), 4(c) and 4(d) Generally consistent with 4(e)

Subclause	Issuer	Note ref.	Industry	Rating	Remaining term to Maturity	Debt premium	Comment
4(a)	-	-	-	-	-	-	No data on applicable bonds
4(b)	WIAL	1	Other	BBB+	5.3	1.72	3 year debt premium would be significantly lower
4(c)	Powerco	2	EDB/GPB	BBB	0.3	0.93	3 year debt premium would be significantly higher BBB+ debt premium would be lower
4(d)	Spark	3	Other	A-	3.0	1.02	BBB+ debt premium would be higher
	AIAL	4	Other	A-	3.0	0.89	BBB+ debt premium would be higher
	Contact	5	Other	BBB	3.0	1.49	BBB+ debt premium would be lower
	Fonterra	6	Other	A	3.0	0.86	BBB+ debt premium would be significantly higher
4(e)	Meridian	7	Other	BBB+	2.0	1.05	
	Genesis Energy	8	Other	BBB+	3.0	1.20	
	MRP	9	Other	BBB+	3.0	1.27	
	CIAL	10	Other	BBB+	3.0	1.49	
	Transpower	11	Other	AA-	3.0	0.75	

Notes on bonds analysed:

- 1 WIAL 5.27% bond maturing 11/06/2020.
- 2 Powerco 6.53% bond maturing 29/06/2015.
- 3 Spark 7.04% bond maturing 22/03/2016; 5.25% bond maturing 25/10/2019.
- 4 AIAL 5.47% bond maturing 17/10/2016; 4.73% bond maturing 13/12/2019
- 5 Contact Energy 7.86% bond maturing 13/04/2017; 4.8% bond maturing 24/05/2018.
- 6 Fonterra 4.6% bond maturing 24/10/2017; 5.52% bond maturing 25/02/2020.
- 7 Meridian 7.55% bond maturing 16/03/2017.
- 8 Genesis Energy 7.185% bond maturing 15/09/2016; 5.205% bond maturing 1/11/2019.
- 9 MRP 7.55% bond maturing 12/10/2016; 5.029% bond maturing 6/3/2019.
- 10 CIAL 5.15% bond maturing 6/12/2019.
- 11 Transpower 6.595% bond maturing 15/02/2017; 5.14% bond maturing 30/11/2018.

39. Consistent with clauses 5.3.25(4) and 5.3.25(5)(a) of the GDS IM Determination, greatest regard has been given to the estimated debt premium on WIAL's June 2020 bond. This bond is issued by an entity other than an EDB/GPB, is publicly traded and has a rating of BBB+. The June 2020 bond has a term to maturity of 5.3 years, which is significantly more than three years specified in clause 5.3.25(3)(d).

¹¹ The three-year debt premiums on the Spark, AIAL, Contact Energy, Fonterra, Genesis Energy, MRP, CIAL and Transpower bonds are calculated by linear interpolation with respect to maturity.

40. As at 1 March 2015, the debt premium on the WIAL bond was estimated at 1.72%. This implies the debt premium on a bond with a term of exactly three years would be significantly lower (approximately 1.45%).
41. The debt premium on Powerco's June 2015 maturity bond is 0.93%. This bond has a term to maturity of 0.3 years, which is much less than the five years specified in clause 5.3.25(3)(d), and implies that an estimate for a three year term would be significantly above 0.93%. On the other hand, Powerco's bonds are rated BBB which is less than the BBB+ specified in clause 5.3.25(3)(d). These considerations do not alter our view that a debt premium of approximately 1.45% is appropriate for BBB+ rated bonds with a three year term to maturity.
42. We have also had regard to the estimated debt premium on bonds from a range of other issuers including Spark (1.02%, 3 years, rated A-), AIAL (0.89%, 3 years, rated A-), Contact Energy (1.49%, 3 years, rated BBB) and Fonterra (0.86%, 3 years, rated A). Consistent with clause 5.3.25(5)(a) these were given less weight as the issuers are not EDBs or GPBs, and the debt issues had different credit ratings than the BBB+ rating specified in clause 5.3.25(3)(d).
43. The estimated debt premium on the Genesis Energy bonds (1.20%, 3 years, rated BBB+), the MRP bonds (1.27%, 3 years, rated BBB+), the Meridian bond (1.05%, 2 years, rated BBB+), the CIAL bond (1.49%, 5 years, rated BBB+), and Transpower bonds (0.75%, 3 years, rated AA-) were given less weight. Taking into account the likely impact of Government ownership, the premiums on these bonds generally support the view that the debt premium we use should be above 1.40%.
44. Placing primary weight on the estimated debt premium on the WIAL bond (which has a term longer than our benchmark term), but having regard to the debt premium on a range of other bonds, we have determined the debt premium on a publicly traded, EDB/GPB-issued bond, rated BBB+ with a remaining term of five years to be 1.45% as at 1 March 2015.