



DS5002

Centralines’ Default Price Quality Path Annual Compliance Statement 2019-2020

For the assessment period ending 31 March 2020

Pursuant to
Electricity Distribution Services Default Price-Quality Path Determination 2015

Data Classification: Public
Published Date: 13/08/2020

DS5002 Centralines' Default Price Quality-Path Annual Compliance Statement 2019-2020

Overview

Document status
Draft **In Service** Under Review Archived
Document purpose

Regulatory disclosure demonstrating Centralines' compliance with the Default Price-Quality Path for the 2019-20 disclosure year.

Intended audience

Publically disclosed.

Document contributors

Contributors	Name and Position Title	Approval Date
Creator	Amanda Watson Senior Regulatory Affairs Advisor	29/06/2020
Authoriser	Nathan Strong General Manager – Business Assurance	12/08/2020
Approver	Nathan Strong General Manager – Business Assurance	12/08/2020

Key dates

Published Date 13/08/2020

Related references
Legislation

- Electricity Distribution Services Default Price-Quality Path Determination 2015 (the Determination)

Disclaimer

The information presented in this Annual Compliance Statement has been prepared solely for the purpose of complying with the requirements of the Electricity Distribution Services Default Price-Quality Path Determination 2015. This statement has not been prepared for any other purpose. Centralines Limited expressly disclaims any liability to any other party who may rely on this statement for any other purpose.

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Overview, Continued

Certification of Annual Compliance Statement



DIRECTORS' CERTIFICATE ON ANNUAL COMPLIANCE STATEMENT

We, Jon Edmond Nichols and Derek Neil Walker, being directors of Centralines Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached Annual Compliance Statement of Centralines Limited, and related information, prepared for the purposes of the *Electricity Distribution Services Default Price Quality Path Determination 2015* are true and accurate.

A handwritten signature in black ink, appearing to read "Jon Nichols", written in a cursive style.

Jon Nichols, Board Chair

Date: 28 July 2020

A handwritten signature in blue ink, appearing to read "Derek Walker", written in a cursive style.

Derek Walker, Audit and Risk Committee Chair

Date: 28 July 2020

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Overview, Continued

Clarification Clarification of any matter referred to in this document should be directed to:

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1. Statement of Compliance

1.1 Compliance with 11.2(a)

As required by 11.2(a) of the Determination, this statement confirms Centralines' compliance with the price path in clause 8 and quality standards in clause 9 in respect of the assessment period ending 31 March 2020.

1.2 Compliance with 11.2(d)

As required by clause 11.2(d) of the Determination, this statement confirms that the following clauses did not apply in respect of the assessment period ending 31 March 2020:

- 8.8 – Restructuring of prices during an assessment period
 - 10.1-10.4 – Qualifying amalgamation, merger, or major transaction for notification to Commission, and
 - 10.6 – Purchase of transmission assets from (or to) Transpower that become System Fixed Assets.
-

2. Compliance with the Price Path

2.1 Compliance with price path (clause 8.3)

Under clause 8.3 of the Determination an EDB's notional revenue must not exceed the allowable notional revenue during the current assessment period. In this section Centralines demonstrates that it has complied with the price path requirements of the Determination.

$$NR \leq ANR$$

$$\$ 11,888,615 \leq \$ 14,108,955$$

2.2 Allowable notional revenue (clause 8.4)

Allowable notional revenue for the 2020 assessment period:

$$ANR_t = \left(\sum_i DP_{i,t-1} Q_{i,t-2} + (ANR_{t-1} - NR_{t-1}) \right) (1 + \Delta CPI_t) (1 - X)$$

$$ANR_{2020} = \$ 14,108,955$$

2.3 Notional revenue (clause 8.5)

Notional revenue for the 2020 assessment period:

$$\sum_i DP_{i,t} Q_{i,t-2}$$

$$\sum DP_{2020} Q_{2018} = \$ 11,888,615$$

2.4 Pass-through balance for the 2020 assessment period (clause 8.6)

The pass-through balance is the difference between the portion of the price set to recover forecast pass-through costs and recoverable costs, multiplied by actual quantities, less the amount of actual pass-through and recoverable costs incurred. A positive amount denotes that an EDB has over-recovered its pass-through and recoverable costs.

$$PTB_t = \sum PTP_{i,t} Q_{i,t} - K_t - V_t + PTB_{t-1} (1 + r)$$

$$PTB_{2020} = \$ 89,998$$

Continued on next page

Compliance with Price Path, Continued

2.5 Supporting evidence

- Appendix A – Independent Auditor's Report
 - Appendix B – Price Path Compliance Calculations
 - Appendix C – Price and Quantity Schedules
 - Appendix D – Price Apportionment to Distribution Prices and Pass-through Prices
 - Appendix E – Methodology Used to Calculate Distribution Prices and Pass-through Prices
 - Appendix F – Pass-through Prices and Quantities for 2020 and 2019 Assessment Periods
 - Appendix G – Pass-through Costs and Recoverable Costs – Actual and Forecast
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3. Compliance with the Quality Standards

3.1 Compliance with quality standards (clause 9)

Under clause 9 of the Determination an EDB's assessed reliability values must either:

- not exceed the reliability limits for the current assessment period, or
- not have exceeded the reliability limit for either of the two immediately preceding extant assessment periods.

In this section Centralines demonstrates that it has complied with the quality standards of the Determination.

3.2 Reliability assessment (9.1(a))

Clause 9.1(a) requires compliance with clause 9.2: A non-exempt EDB's assessed values for an assessment period must not exceed its reliability limits for that assessment period.

Compliance is demonstrated in the following tables. The first table demonstrates compliance with the SAIDI limit, and the second table demonstrates compliance with the SAIFI limit.

Test:	$\frac{SAIDI_{Assess\ 2020}}{SAIDI_{Limit}} \leq 1$	
SAIDI _{Assess 2020}		114.906
SAIDI _{Limit}		139.348
Result:	0.825	< 1
Result:	Does not Exceed Limit	

Test:	$\frac{SAIFI_{Assess\ 2020}}{SAIFI_{Limit}} \leq 1$	
SAIFI _{Assess 2020}		1.940
SAIFI _{Limit}		4.203
Result:	0.462	< 1
Result:	Does not Exceed Limit	

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Compliance with the Quality Standards, Continued

3.3 Prior period reliability assessment (9.1(b))

Clause 9.1(b) requires compliance with annual reliability assessments for the two immediately preceding assessment periods.

SAIDI _{Assess 2019}	107.730	SAIFI _{Assess 2019}	2.060
SAIDI _{Limit}	139.348	SAIFI _{Limit}	4.203
0.773	< 1	0.490	< 1
Does not Exceed Limit		Does not Exceed Limit	

SAIDI _{Assess 2018}	131.669	SAIFI _{Assess 2018}	2.230
SAIDI _{Limit}	139.348	SAIFI _{Limit}	4.203
0.945	< 1	0.531	< 1
Does not Exceed Limit		Does not Exceed Limit	

3.4 Compliance summary

Clause 9.1 – A non-exempt EDB, in respect of each assessment period, must either:

- comply with the annual reliability assessment specified in clause 9.2, or
- have complied with those annual reliability assessments for the two immediately preceding assessments periods.

	SAIDI	SAIFI	Compliance
Compliance with 9.1(a)	Does not Exceed Limit	Does not Exceed Limit	<i>Complies</i>
or			
Compliance with 9.1(b)	Does not Exceed Limit	Does not Exceed Limit	<i>Complies</i>
Clause 9.1 Result:	Complies with Quality Standard		

3.5 Supporting evidence

- Appendix H – Quality Standard Compliance Calculations
- Appendix I – Quality Incentive Adjustment Clause
- Appendix J – Policies and Procedures for Recording SAIDI and SAIFI

Appendix A – Independent Auditor's Report



Independent Assurance Report

To the directors of Centralines Limited and the Commerce Commission

The Auditor-General is the auditor of Centralines Limited (the Company). The Auditor-General has appointed me, Chantelle Gernetzky, using the staff and resources of Audit New Zealand, to provide an opinion, on his behalf, on whether the Annual Compliance Statement for the year ended on 31 March 2020 on pages 5 to 44 has been prepared, in all material respects, in accordance with the Electricity Distribution Services Default Price-Quality Path Determination 2015 as amended by the Electricity Distribution Services Default Price-Quality Path (Compliance Statement Due Date and Auditor's Report) Amendments Determination 2020, issued by the Commerce Commission NZ on 9 April 2020 (the "Determination as amended").

Opinion

In our opinion:

- as far as appears from an examination, the information used in the preparation of the Annual Compliance Statement has been properly extracted from the Company's accounting and other records, and has been sourced, where appropriate, from its financial and non-financial systems; and
- the Annual Compliance Statement of the Company for the year ended on 31 March 2020, has been prepared, in all material respects, in accordance with the Determination, as amended.

In forming our opinion, we have obtained sufficient recorded evidence and all the information and explanations we have required.

Basis of opinion

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised): Assurance Engagements Other Than Audits or Reviews of Historical Financial Information and the Standard on Assurance Engagements 3100 (Revised): Assurance Engagements on Compliance issued by the New Zealand Auditing and Assurance Standards Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Annual Compliance Statement has been prepared in all material respects in accordance with the Determination, as amended.

We have performed procedures to obtain evidence about the amounts and disclosures in the Annual Compliance Statement. The procedures selected depend on our judgement, including the

Continued on next page

Appendix A – Independent Auditor's Report, Continued

assessment of the risks of material misstatement of the Annual Compliance Statement, whether due to fraud or error or non-compliance with the Determination, as amended. In making those risk assessments, we considered internal control relevant to the Company's preparation of the Annual Compliance Statement in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control.

In assessing the disclosures about compliance with the price path in clause 8 of the Determination, as amended, for the assessment period ended on 31 March 2020, our assurance engagement included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 6 and 13 to 36 of the Annual Compliance Statement.

In assessing the disclosures about compliance with the quality standards in clause 9 of the Determination, as amended, for the assessment period ended on 31 March 2020, our assurance engagement included examination, on a test basis, of evidence relevant to the amounts and disclosures contained on pages 8 to 9 and 37 to 44 of the Annual Compliance Statement.

Our assurance engagement also included assessment of the significant estimates and judgements, if any, made by the Company in the preparation of the Annual Compliance Statement.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Scope and inherent limitations

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected.

We did not examine every transaction, adjustment or event underlying the Annual Compliance Statement nor do we guarantee complete accuracy of the Annual Compliance Statement. Also we did not evaluate the security and controls over the electronic publication of the Annual Compliance Statement.

The opinion expressed in this independent assurance report has been formed on the above basis.

Directors' responsibilities for the preparation of the Annual Compliance Statement

The directors of the Company are responsible for the preparation of the Annual Compliance Statement in accordance with the Determination, as amended, and for such internal control as the directors determine is necessary to enable the preparation of an Annual Compliance Statement that is free from material misstatement.

Our responsibility for the Annual Compliance Statement

Our responsibility is to express an opinion on whether the Annual Compliance Statement has been prepared, in all material respects, in accordance with the Determination, as amended.

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Appendix A – Independent Auditor's Report, Continued

Independence and quality control

When carrying out the engagement, we complied with the Auditor-General's:

- independence and other ethical requirements, which incorporate the independence and ethical requirements of Professional and Ethical Standard 1 (Revised) issued by the New Zealand Auditing and Assurance Standards Board; and
- quality control requirements, which incorporate the quality control requirements of Professional and Ethical Standard 3 (Amended) issued by the New Zealand Auditing and Assurance Standards Board.

We also complied with the independent auditor requirements specified in the Determination, as amended.

The Auditor-General, and his employees, and Audit New Zealand its employees may deal with the Company on normal terms within the ordinary course of trading activities of the Company. Other than any dealings on normal terms within the ordinary course of business, this engagement, the assurance engagement pursuant to the Company's disclosure information prepared under the Electricity Distribution Information Disclosure Determination 2012 and the annual audit of the Company's financial statements, we have no relationship with or interests in the Company.

Use of this report

This independent assurance report has been prepared solely for the directors of the Company and for the Commerce Commission for the purpose of providing those parties with reasonable assurance about whether the Annual Compliance Statement has been prepared, in all material respects, in accordance with the Determination, as amended. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the Company or the Commerce Commission, or for any other purpose than that for which it was prepared.



Chantelle Gernetzky
Audit New Zealand
On behalf of the Auditor-General
Christchurch, New Zealand
28 July 2020

Appendix B – Price Path Compliance Calculations (Clauses 11.4(c), (g) and (k))

Allowable Notional Revenue 2020		
$ANR_t = \left(\sum_i DP_{i,t-1} Q_{i,t-2} + (ANR_{t-1} - NR_{t-1}) \right) (1 + \Delta CPI_t) (1 - X)$		
Term	Description	Value \$
<i>ANR</i> ₂₀₂₀	Allowable Notional Revenue 2020	14,108,955
<i>DP</i> ₂₀₁₉ <i>Q</i> ₂₀₁₈	2019 Distribution Prices x 2018 Quantities	9,269,727
<i>ANR</i> ₂₀₁₉	Allowable Notional Revenue 2019	12,973,349
<i>NR</i> ₂₀₁₉	Notional Revenue 2019	9,255,446
<i>CPI</i> ₂₀₂₀	Consumer Price Index 2020	1.53%
<i>X</i>	Annual Rate of Change	-7.0%

Notional Revenue for the year ending March 2020		
$\sum_i DP_{i,t} Q_{i,t-2}$		
Term	Description	Value \$
<i>DP</i> ₂₀₂₀ * <i>Q</i> ₂₀₁₈	Prices at 31 March 2020 multiplied by 31 March 2018 Base Quantities	11,888,615

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Appendix B – Price Path Compliance Calculations (Clauses 11.4(c), (g) and (k)), Continued

Pass-through Costs and Recoverable Costs for the year ending 31 March 2020		
$PTB_t = \sum PTP_{i,t} Q_{i,t} - K_t - V_t + PTB_{t-1} (1 + r)$		
Term	Description	Value \$
PTB_{2020}	Pass-through Balance for the year ending 31 March 2020	89,998
$PTP_{i,2020} Q_{i,2020}$	Denotes 2020 Prices multiplied by 2020 Quantities	2,386,487
K_{2020}	Rates for year ending 31 March 2020	40,687
	Electricity Authority Levies for year ending 31 March 2020	20,934
	Commerce Act Levies for year ending 31 March 2020	28,106
	Utilities Disputes Levies for year ending 31 March 2020	4,669
V_{2020}	Transmission Charges for year ending 31 March 2020	2,906,852
	Avoided Transmission Charges	0
	Transpower New Investment Contract Charges for year ending 31 March 2020	0
	Distributed Generation Allowance	0
	Claw-back	503,000
	Capex Wash-up	-83,000
	NPV Wash-up	292,000
	Quality Incentive Adjustment	21,284
	Correction of Quality Incentive Adjustment for 2016-2017*	-12,920
PTB_{2019}	Pass-through Balance 2019	1,343,316
r	Cost of Debt	6.09%

*The pass-through balance for the 2018-2019 disclosure year was over-stated by 12,920 due to the use of Centralines' allowable notional revenue for the 2016-2017 year to determine the incentive rate for the quality incentive adjustment calculation, whereas Centralines should have used the starting maximum allowable revenue applicable for the duration of the regulatory period. The disclosed 2016-2017 quality incentive adjustment was 124,545, the corrected 2016-2017 quality incentive adjustment is 112,368. To account for this minor adjustment, the corrected difference for the 2016-2017 quality incentive adjustment is included in the above 2020 pass-through balance table. The correction does not alter Centralines' compliance with the price path, but the amount carried forward to adjust future prices for quality performance.

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Appendix B – Price Path Compliance Calculations (Clauses 11.4(c) and (g)), Continued

Pass-through Balance Reconciliation				
Assessment Year Four (2019)		Assessment Year Five (2020)		Difference
	$P_{2019} Q_{2019}$		$P_{2020} Q_{2020}$	
$\sum PTP_{t-1} Q_{t-1}$	5,020,695	$\sum PTP_t Q_t$	2,386,487	-2,634,208
K_{t-1}	87,761	K_t	94,396	6,635
V_{t-1}	3,729,897	V_t	3,627,216	-102,681
$PTB_{t-2} (2018)$	132,227	$PTB_{t-1} (2019)$	1,343,316	1,211,089
$R = \text{cost of debt}$	6.09%	$R = \text{cost of debt}$	6.09%	
$PTB_{t-1} (2019)$	1,343,316	$PTB_t (2020)$	89,998	-1,253,318

ΔCPI_{2020}			
Numerator		Denominator	
$\text{CPI}_{\text{Dec}2017}$	1006	$\text{CPI}_{\text{Dec}2016}$	990
$\text{CPI}_{\text{Mar}2018}$	1011	$\text{CPI}_{\text{Mar}2017}$	1000
$\text{CPI}_{\text{Jun}2018}$	1015	$\text{CPI}_{\text{Jun}2017}$	1000
$\text{CPI}_{\text{Sep}2018}$	1024	$\text{CPI}_{\text{Sep}2017}$	1005
Total	4056	Total	3995
$\Delta \text{CPI}_{2020} \quad 1.53\%$			

Appendix C – Price and Quantity Schedules (Clause 11.4(c))

PRICE CODE	Q ₂₀₁₈ Apr/May	DP ₂₀₂₀ Apr/May	Distribution Revenue Apr/May
E-C-CH11-DMND	2,178.60	2.8000	6,100.08
E-C-CH11-KVAR	230.00	0.0000	0.00
E-C-CH11-SOPD	1,950.00	7.4000	14,430.00
E-C-CH11-TAIC	974,797.00	0.0000	0.00
E-C-CH1-24UC	681,867.17	0.1552	105,825.78
E-C-CH12-DMND	7,452.90	2.8000	20,868.12
E-C-CH12-KVAR	2,533.71	0.0000	0.00
E-C-CH12-SOPD	7,452.90	7.4000	55,151.46
E-C-CH12-TAIC	3,156,557.00	0.0000	0.00
E-C-CH1-AICO	1,350,450.78	0.1261	170,291.84
E-C-CH1-CTRL	92,889.25	0.0880	8,174.25
E-C-CH1-CTUD	53,009.00	0.1600	8,481.44
E-C-CH1-DGEN	9,546.00	0.0000	0.00
E-C-CH1G-24UC	2,667.00	0.1312	349.91
E-C-CH1G-AICO	829.00	0.1120	92.85
E-C-CH1G-DGEN	840.00	0.0000	0.00
E-C-CH1-NITE	24,318.30	0.0560	1,361.82
E-C-CH1-PROJ	530.00	0.1312	69.54
E-C-CH1T-CTRL	0.00	0.0748	0.00
E-C-CH1T-OFPK	0.00	0.0748	0.00
E-C-CH1T-ONPK	0.00	0.1972	0.00
E-C-CH1T-PROJ	0.00	0.1972	0.00
E-C-CH2G-24UC	5,002.00	0.0880	440.18
E-C-CH2G-AICO	7,186.00	0.0600	431.16
E-C-CH2G-DGEN	1,821.00	0.0000	0.00
E-C-CH2G-PROJ	-1,644.00	0.1100	-180.84
E-C-CH2H-24UC	1,263,782.02	0.0900	113,740.38
E-C-CH2H-CTRL	12,507.00	0.0480	600.34
E-C-CH2H-CTUD	98,789.77	0.1040	10,274.14
E-C-CH2H-NITE	44,921.98	0.0320	1,437.50
E-C-CH2H-PROJ	56,662.35	0.0800	4,532.99
E-C-CH2I-24UC	-27,757.00	0.0736	-2,042.92
E-C-CH2I-CTRL	36.00	0.0512	1.84
E-C-CH2I-CTUD	51,214.00	0.0960	4,916.54
E-C-CH2I-NITE	5,018.00	0.0288	144.52
E-C-CH2L-24UC	333,422.98	0.0720	24,006.45
E-C-CH2L-CTRL	4,618.00	0.0480	221.66
E-C-CH2L-CTUD	4,403.00	0.1040	457.91
E-C-CH2L-NITE	2,031.00	0.0320	64.99
E-C-CH2L-PROJ	-400.00	0.0800	-32.00
E-C-CH2R-24UC	1,722,587.39	0.0980	168,813.56
E-C-CH2R-AICO	2,262,079.67	0.0700	158,345.58
E-C-CH2R-CTRL	183,012.80	0.0400	7,320.51

PRICE CODE	Q ²⁰¹⁸ Apr/May	DP ²⁰²⁰ Apr/May	Distribution Revenue Apr/May
E-C-CH2R-CTUD	104,697.00	0.1040	10,888.49
E-C-CH2R-DGEN	10,529.00	0.0000	0.00
E-C-CH2R-NITE	45,214.00	0.0320	1,446.85
E-C-CH2R-PROJ	1,211.00	0.0880	106.57
E-C-CH2T-CTRL	0.00	0.0408	0.00
E-C-CH2T-OFPK	0.00	0.0408	0.00
E-C-CH2T-ONPK	0.00	0.1564	0.00
E-C-CH2T-PROJ	0.00	0.1564	0.00
E-C-CH3-24UC	586,270.95	0.0880	51,591.84
E-C-CH3-CTRL	6,743.00	0.0640	431.55
E-C-CH3-CTUD	101,855.37	0.1080	11,000.38
E-C-CH3-DGEN	230.00	0.0000	0.00
E-C-CH3-DMND	301.76	4.4000	1,327.74
E-C-CH3-KVAR	91.87	0.0000	0.00
E-C-CH3-NITE	41,415.92	0.0333	1,379.15
E-C-CH3-PROJ	0.00	0.0880	0.00
E-C-CH3-SOPD	281.90	7.4000	2,086.06
E-C-CH3-TAIC	100,797.00	0.0000	0.00
E-C-CH4-24UC	280,832.41	0.0480	13,479.96
E-C-CH4-CTUD	166,165.80	0.0608	10,102.88
E-C-CH4-DGEN	200.00	0.0000	0.00
E-C-CH4-DMND	876.46	4.4000	3,856.42
E-C-CH4-KVAR	126.27	0.0000	0.00
E-C-CH4-NITE	52,604.73	0.0200	1,052.09
E-C-CH4-SOPD	797.40	7.4000	5,900.76
E-C-CH4-TAIC	287,832.00	0.0000	0.00
E-C-CH5-DMND	2,198.96	3.2000	7,036.67
E-C-CH5-KVAR	337.45	0.0000	0.00
E-C-CH5-SOPD	2,134.26	7.4000	15,793.52
E-C-CH5-TAIC	725,339.00	0.0000	0.00
E-C-CH6-DMND	704.02	3.2000	2,252.86
E-C-CH6-KVAR	132.92	0.0000	0.00
E-C-CH6-SOPD	691.92	7.4000	5,120.21
E-C-CH6-TAIC	131,787.00	0.0000	0.00
E-C-CH8-DMND	746.92	2.8000	2,091.38
E-C-CH8-KVAR	31.21	0.0000	0.00
E-C-CH8-TAIC	305,912.00	0.0000	0.00
E-C-CH8-WOPD	744.68	7.4000	5,510.63
E-C-T1P-24UC	44.00	0.0800	3.52
E-C-U01-UNMT	59,103.73	0.0952	5,626.67
E-C-U02-UNMT	100,220.29	0.0952	9,540.97
F-C-CH1	158,227.00	0.1500	23,734.05
F-C-CH11	61.00	89.5000	5,459.50
F-C-CH12	61.00	495.0000	30,195.00
F-C-CH1G	253.00	0.1500	37.95

PRICE CODE	Q ²⁰¹⁸ Apr/May	DP ²⁰²⁰ Apr/May	Distribution Revenue Apr/May
F-C-CH1T	0.00	0.1500	0.00
F-C-CH2G	610.00	1.4000	854.00
F-C-CH2H	31,822.00	1.4000	44,550.80
F-C-CH2I	4,575.00	5.0000	22,875.00
F-C-CH2L	83,875.00	1.3000	109,037.50
F-C-CH2R	204,265.00	1.4000	285,971.00
F-C-CH2T	0.00	1.4000	0.00
F-C-CH3	4,209.00	5.0000	21,045.00
F-C-CH4	1,525.00	29.0000	44,225.00
F-C-CH5	488.00	45.0000	21,960.00
F-C-CH6	122.00	60.0000	7,320.00
F-C-CH8	61.00	79.5000	4,849.50
F-C-T1P	122.00	1.5500	189.10
F-C-U02	62,464.00	0.0500	3,123.20
F-C-U03	0.00	0.0500	0.00
Total	16,071,335		1,677,745.40

PRICE CODE	Q ²⁰¹⁸ Jun to Mar	DP ²⁰²⁰ Jun to Mar	Distribution Revenue Jun to Mar	Annual Dist Revenue DP ₂₀₂₀ X Q ₂₀₁₈	Unit of Measure
E-C-CH11-DMND	12,176.40	2.8000	34,093.92	40,194.00	kW
E-C-CH11-KVAR	286.40	0.0000	0.00	0.00	kVAR
E-C-CH11-SOPD	11,696.40	8.3300	97,431.01	111,861.01	kW
E-C-CH11-TAIC	5,600,212.00	0.0000	0.00	0.00	kWh
E-C-CH1-24UC	3,543,142.45	0.1853	656,455.72	762,281.50	kWh
E-C-CH12-DMND	40,439.86	2.8000	113,231.61	134,099.73	kW
E-C-CH12-KVAR	11,603.31	0.0000	0.00	0.00	kVAR
E-C-CH12-SOPD	40,125.30	8.3300	334,243.75	389,395.21	kW
E-C-CH12-TAIC	18,971,502.00	0.0000	0.00	0.00	kWh
E-C-CH1-AICO	6,883,756.16	0.1568	1,079,200.87	1,249,492.72	kWh
E-C-CH1-CTRL	443,413.42	0.1158	51,325.10	59,499.36	kWh
E-C-CH1-CTUD	265,303.11	0.2245	59,560.55	68,041.99	kWh
E-C-CH1-DGEN	60,132.00	0.0000	0.00	0.00	kWh
E-C-CH1G-24UC	10,030.00	0.1312	1,315.94	1,665.85	kWh
E-C-CH1G-AICO	1,043.00	0.1120	116.82	209.66	kWh
E-C-CH1G-DGEN	9,915.00	0.0000	0.00	0.00	kWh
E-C-CH1-NITE	118,931.27	0.0725	8,622.52	9,984.34	kWh
E-C-CH1-PROJ	4,664.00	0.1853	864.12	933.66	kWh
E-C-CH1T-CTRL	4,330.84	0.0748	323.95	323.95	kWh
E-C-CH1T-OFPK	95,849.02	0.0748	7,169.51	7,169.51	kWh
E-C-CH1T-ONPK	43,485.42	0.1972	8,575.32	8,575.32	kWh
E-C-CH1T-PROJ	1,837.20	0.1972	362.30	362.30	kWh
E-C-CH2G-24UC	58,874.00	0.0880	5,180.91	5,621.09	kWh

PRICE CODE	Q ₂₀₁₈ Jun to Mar	DP ₂₀₂₀ Jun to Mar	Distribution Revenue Jun to Mar	Annual Dist Revenue DP ₂₀₂₀ X Q ₂₀₁₈	Unit of Measure
E-C-CH2G-AICO	39,364.00	0.0600	2,361.84	2,793.00	kWh
E-C-CH2G-DGEN	44,467.00	0.0000	0.00	0.00	kWh
E-C-CH2G-PROJ	303.00	0.1100	33.33	-147.51	kWh
E-C-CH2H-24UC	6,839,147.65	0.0900	615,523.29	729,263.67	kWh
E-C-CH2H-CTRL	87,745.00	0.0480	4,211.76	4,812.10	kWh
E-C-CH2H-CTUD	779,674.58	0.1040	81,086.16	91,360.29	kWh
E-C-CH2H-NITE	279,913.01	0.0320	8,957.22	10,394.72	kWh
E-C-CH2H-PROJ	132,895.01	0.0800	10,631.60	15,164.59	kWh
E-C-CH2I-24UC	2,358,474.00	0.0736	173,583.69	171,540.77	kWh
E-C-CH2I-CTRL	185.00	0.0512	9.47	11.32	kWh
E-C-CH2I-CTUD	2,002,264.00	0.0960	192,217.34	197,133.89	kWh
E-C-CH2I-NITE	970,398.00	0.0288	27,947.46	28,091.98	kWh
E-C-CH2L-24UC	2,275,539.57	0.0720	163,838.85	187,845.30	kWh
E-C-CH2L-CTRL	20,797.00	0.0480	998.26	1,219.92	kWh
E-C-CH2L-CTUD	57,119.00	0.1040	5,940.38	6,398.29	kWh
E-C-CH2L-NITE	25,772.00	0.0320	824.70	889.70	kWh
E-C-CH2L-PROJ	5,486.00	0.0800	438.88	406.88	kWh
E-C-CH2R-24UC	9,067,703.68	0.1282	1,162,706.30	1,331,519.87	kWh
E-C-CH2R-AICO	11,356,305.38	0.1000	1,135,630.54	1,293,976.11	kWh
E-C-CH2R-CTRL	897,332.23	0.0610	54,737.27	62,057.78	kWh
E-C-CH2R-CTUD	562,347.23	0.1572	88,400.98	99,289.47	kWh
E-C-CH2R-DGEN	77,320.00	0.0000	0.00	0.00	kWh
E-C-CH2R-NITE	266,112.07	0.0500	13,305.60	14,752.45	kWh
E-C-CH2R-PROJ	21,383.00	0.1282	2,741.84	2,848.40	kWh
E-C-CH2T-CTRL	486.78	0.0408	19.86	19.86	kWh
E-C-CH2T-OFPK	41,658.16	0.0408	1,699.65	1,699.65	kWh
E-C-CH2T-ONPK	19,320.70	0.1564	3,021.76	3,021.76	kWh
E-C-CH2T-PROJ	31.21	0.1564	4.88	4.88	kWh
E-C-CH3-24UC	3,245,507.79	0.0880	285,604.69	337,196.53	kWh
E-C-CH3-CTRL	20,948.00	0.0640	1,340.67	1,772.22	kWh
E-C-CH3-CTUD	800,212.90	0.1080	86,422.99	97,423.37	kWh
E-C-CH3-DGEN	1,481.00	0.0000	0.00	0.00	kWh
E-C-CH3-DMND	1,692.26	4.4000	7,445.94	8,773.69	kW
E-C-CH3-KVAR	397.67	0.0000	0.00	0.00	kVAR
E-C-CH3-NITE	324,660.31	0.0333	10,811.19	12,190.34	kWh
E-C-CH3-PROJ	0.00	0.0880	0.00	0.00	kWh
E-C-CH3-SOPD	1,633.26	8.3300	13,605.06	15,691.12	kW
E-C-CH3-TAIC	570,334.00	0.0000	0.00	0.00	kWh
E-C-CH4-24UC	2,075,188.13	0.0480	99,609.03	113,088.99	kWh
E-C-CH4-CTUD	958,365.35	0.0608	58,268.61	68,371.49	kWh
E-C-CH4-DGEN	1,400.00	0.0000	0.00	0.00	kWh
E-C-CH4-DMND	4,536.48	4.4000	19,960.51	23,816.94	kW
E-C-CH4-KVAR	796.21	0.0000	0.00	0.00	kVAR
E-C-CH4-NITE	302,206.13	0.0200	6,044.12	7,096.22	kWh
E-C-CH4-SOPD	4,331.62	8.3300	36,082.39	41,983.15	kW

PRICE CODE	Q ₂₀₁₈ Jun to Mar	DP ₂₀₂₀ Jun to Mar	Distribution Revenue Jun to Mar	Annual Dist Revenue DP ₂₀₂₀ X Q ₂₀₁₈	Unit of Measure
E-C-CH4-TAIC	1,620,549.00	0.0000	0.00	0.00	kWh
E-C-CH5-DMND	12,086.86	3.2000	38,677.95	45,714.62	kW
E-C-CH5-KVAR	1,703.74	0.0000	0.00	0.00	kVAR
E-C-CH5-SOPD	11,743.90	8.3300	97,826.69	113,620.21	kW
E-C-CH5-TAIC	4,035,137.00	0.0000	0.00	0.00	kWh
E-C-CH6-DMND	3,653.44	3.2000	11,691.01	13,943.87	kW
E-C-CH6-KVAR	381.67	0.0000	0.00	0.00	kVAR
E-C-CH6-SOPD	3,564.42	8.3300	29,691.62	34,811.83	kW
E-C-CH6-TAIC	702,336.00	0.0000	0.00	0.00	kWh
E-C-CH8-DMND	1,439.56	2.8000	4,030.77	6,122.14	kW
E-C-CH8-KVAR	24.76	0.0000	0.00	0.00	kVAR
E-C-CH8-TAIC	410,422.00	0.0000	0.00	0.00	kWh
E-C-CH8-WOPD	1,395.36	8.3300	11,623.35	17,133.98	kW
E-C-T1P-24UC	669.00	0.0800	53.52	57.04	kWh
E-C-U01-UNMT	259,306.05	0.0952	24,685.94	30,312.61	kWh
E-C-U02-UNMT	431,948.81	0.0952	41,121.53	50,662.50	kWh
F-C-CH1	796,674.00	0.1500	119,501.10	143,235.15	DAYS
F-C-CH11	304.00	89.5000	27,208.00	32,667.50	DAYS
F-C-CH12	304.00	495.0000	150,480.00	180,675.00	DAYS
F-C-CH1G	1,364.00	0.1500	204.60	242.55	DAYS
F-C-CH1T	10,228.00	0.1500	1,534.20	1,534.20	DAYS
F-C-CH2G	4,930.00	1.4000	6,902.00	7,756.00	DAYS
F-C-CH2H	157,342.00	1.4000	220,278.80	264,829.60	DAYS
F-C-CH2I	22,800.00	5.0000	114,000.00	136,875.00	DAYS
F-C-CH2L	413,268.00	1.3000	537,248.40	646,285.90	DAYS
F-C-CH2R	1,012,902.00	1.4000	1,418,062.80	1,704,033.80	DAYS
F-C-CH2T	2,797.00	1.4000	3,915.80	3,915.80	DAYS
F-C-CH3	21,893.00	5.0000	109,465.00	130,510.00	DAYS
F-C-CH4	7,641.00	29.0000	221,589.00	265,814.00	DAYS
F-C-CH5	2,437.00	45.0000	109,665.00	131,625.00	DAYS
F-C-CH6	603.00	60.0000	36,180.00	43,500.00	DAYS
F-C-CH8	304.00	79.5000	24,168.00	29,017.50	DAYS
F-C-T1P	876.00	1.5500	1,357.80	1,546.90	DAYS
F-C-U02	311,296.00	0.0500	15,564.80	18,688.00	Fixture
F-C-U03	0.00	0.0500	0.00	0.00	Fixture
Total	93,040,309		10,210,869.69	11,888,615.09	

Appendix D – Price Apportionment to Distribution Prices and Pass-through Prices (Clause 11.4(d))

Price Summary 2019-20						
Price Code	\$ DP ²⁰²⁰ Apr/May	\$ PTP ²⁰²⁰ Apr/May	\$ Total	\$ DP ²⁰²⁰ Jun to Mar	\$ PTP ²⁰²⁰ Jun to Mar	\$ Total
F-C-CH1	0.1500	0.0000	0.1500	0.1500	0.0000	0.1500
E-C-CH1-24UC	0.1552	0.0401	0.1953	0.1853	0.0100	0.1953
E-C-CH1-AICO	0.1261	0.0409	0.1670	0.1568	0.0102	0.1670
E-C-CH1-CTRL	0.0880	0.0370	0.1250	0.1158	0.0093	0.1251
E-C-CH1-CTUD	0.1600	0.0860	0.2460	0.2245	0.0215	0.2460
E-C-CH1-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH1-NITE	0.0560	0.0220	0.0780	0.0725	0.0055	0.0780
E-C-CH1-PROJ	0.1312	0.0641	0.1953	0.1853	0.0100	0.1953
F-C-CH2R	1.4000	0.0000	1.4000	1.4000	0.0000	1.4000
E-C-CH2R-24UC	0.0980	0.0403	0.1383	0.1282	0.0101	0.1383
E-C-CH2R-AICO	0.0700	0.0400	0.1100	0.1000	0.0100	0.1100
E-C-CH2R-CTRL	0.0400	0.0280	0.0680	0.0610	0.0070	0.0680
E-C-CH2R-CTUD	0.1040	0.0710	0.1750	0.1572	0.0178	0.1750
E-C-CH2R-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH2R-NITE	0.0320	0.0240	0.0560	0.0500	0.0060	0.0560
E-C-CH2R-PROJ	0.0880	0.0503	0.1383	0.1282	0.0101	0.1383
F-C-CH1T	0.1500	0.0000	0.1500	0.1500	0.0000	0.1500
E-C-CH1T-ONPK	0.1972	0.0928	0.2900	0.1972	0.0928	0.2900
E-C-CH1T-OFPK	0.0748	0.0352	0.1100	0.0748	0.0352	0.1100
E-C-CH1T-CTRL	0.0748	0.0352	0.1100	0.0748	0.0352	0.1100
E-C-CH1T-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH1T-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH1T-NITE	0.0560	0.0220	0.0780	0.0560	0.0220	0.0780
E-C-CH1T-PROJ	0.1972	0.0928	0.2900	0.1972	0.0928	0.2900
F-C-CH2T	1.4000	0.0000	1.4000	1.4000	0.0000	1.4000
E-C-CH2T-ONPK	0.1564	0.0736	0.2300	0.1564	0.0736	0.2300
E-C-CH2T-OFPK	0.0408	0.0192	0.0600	0.0408	0.0192	0.0600
E-C-CH2T-CTRL	0.0408	0.0192	0.0600	0.0408	0.0192	0.0600
E-C-CH2T-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH2T-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH2T-NITE	0.0320	0.0240	0.0560	0.0320	0.0240	0.0560
E-C-CH2T-PROJ	0.1564	0.0736	0.2300	0.1564	0.0736	0.2300
F-C-CH1G	0.1500	0.0000	0.1500	0.1500	0.0000	0.1500
E-C-CH1G-24UC	0.1312	0.0954	0.2266	0.1312	0.0954	0.2266
E-C-CH1G-AICO	0.1120	0.0820	0.1940	0.1120	0.0820	0.1940
E-C-CH1G-CTRL	0.0880	0.0570	0.1450	0.0880	0.0570	0.1450
E-C-CH1G-CTUD	0.1600	0.1250	0.2850	0.1600	0.1250	0.2850
E-C-CH1G-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH1G-NITE	0.0560	0.0350	0.0910	0.0560	0.0350	0.0910
E-C-CH1G-PROJ	0.1312	0.0954	0.2266	0.1312	0.0954	0.2266
F-C-CH2G	1.4000	0.6860	2.0860	1.4000	0.6860	2.0860

Price Summary 2019-20						
Price Code	\$ DP ²⁰²⁰ Apr/May	\$ PTP ²⁰²⁰ Apr/May	\$ Total	\$ DP ²⁰²⁰ Jun to Mar	\$ PTP ²⁰²⁰ Jun to Mar	\$ Total
E-C-CH2G-24UC	0.0880	0.0503	0.1383	0.0880	0.0503	0.1383
E-C-CH2G-AICO	0.0600	0.0500	0.1100	0.0600	0.0500	0.1100
E-C-CH2G-CTRL	0.0000	0.0680	0.0680	0.0000	0.0680	0.0680
E-C-CH2G-CTUD	0.0000	0.1750	0.1750	0.0000	0.1750	0.1750
E-C-CH2G-NITE	0.0000	0.0560	0.0560	0.0000	0.0560	0.0560
E-C-CH2G-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH2G-PROJ	0.1100	0.0283	0.1383	0.1100	0.0283	0.1383
F-C-CH2L	1.3000	0.3500	1.6500	1.3000	0.3500	1.6500
E-C-CH2L-24UC	0.0720	0.0430	0.1150	0.0720	0.0430	0.1150
E-C-CH2L-CTRL	0.0480	0.0190	0.0670	0.0480	0.0190	0.0670
E-C-CH2L-CTUD	0.1040	0.0410	0.1450	0.1040	0.0410	0.1450
E-C-CH2L-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH2L-NITE	0.0320	0.0140	0.0460	0.0320	0.0140	0.0460
E-C-CH2L-PROJ	0.0800	0.0350	0.1150	0.0800	0.0350	0.1150
F-C-CH2H	1.4000	0.0000	1.4000	1.4000	0.0000	1.4000
E-C-CH2H-24UC	0.0900	0.0405	0.1305	0.0900	0.0405	0.1305
E-C-CH2H-CTRL	0.0480	0.0320	0.0800	0.0480	0.0320	0.0800
E-C-CH2H-CTUD	0.1040	0.0610	0.1650	0.1040	0.0610	0.1650
E-C-CH2H-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH2H-NITE	0.0320	0.0200	0.0520	0.0320	0.0200	0.0520
E-C-CH2H-PROJ	0.0800	0.0505	0.1305	0.0800	0.0505	0.1305
F-C-CH2I	5.0000	0.0000	5.0000	5.0000	0.0000	5.0000
E-C-CH2I-24UC	0.0736	0.0364	0.1100	0.0736	0.0364	0.1100
E-C-CH2I-CTRL	0.0512	0.0258	0.0770	0.0512	0.0258	0.0770
E-C-CH2I-CTUD	0.0960	0.0500	0.1460	0.0960	0.0500	0.1460
E-C-CH2I-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH2I-DMND	4.4000	2.4000	6.8000	4.4000	2.4000	6.8000
E-C-CH2I-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH2I-NITE	0.0288	0.0152	0.0440	0.0288	0.0152	0.0440
E-C-CH2I-PROJ	0.0736	0.0364	0.1100	0.0736	0.0364	0.1100
E-C-CH2I-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH2I-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH2I-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH3	5.0000	0.0000	5.0000	5.0000	0.0000	5.0000
E-C-CH3-24UC	0.0880	0.0350	0.1230	0.0880	0.0350	0.1230
E-C-CH3-CTRL	0.0640	0.0220	0.0860	0.0640	0.0220	0.0860
E-C-CH3-CTUD	0.1080	0.0550	0.1630	0.1080	0.0550	0.1630
E-C-CH3-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH3-DMND	4.4000	2.4000	6.8000	4.4000	2.4000	6.8000
E-C-CH3-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH3-NITE	0.0333	0.0157	0.0490	0.0333	0.0157	0.0490
E-C-CH3-PROJ	0.0880	0.0350	0.1230	0.0880	0.0350	0.1230
E-C-CH3-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH3-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Price Summary 2019-20						
Price Code	\$ DP ²⁰²⁰ Apr/May	\$ PTP ²⁰²⁰ Apr/May	\$ Total	\$ DP ²⁰²⁰ Jun to Mar	\$ PTP ²⁰²⁰ Jun to Mar	\$ Total
E-C-CH3-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH4	29.0000	0.0000	29.0000	29.0000	0.0000	29.0000
E-C-CH4-24UC	0.0480	0.0260	0.0740	0.0480	0.0260	0.0740
E-C-CH4-CTRL	0.0344	0.0176	0.0520	0.0344	0.0176	0.0520
E-C-CH4-CTUD	0.0608	0.0372	0.0980	0.0608	0.0372	0.0980
E-C-CH4-DGEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH4-DMND	4.4000	2.4000	6.8000	4.4000	2.4000	6.8000
E-C-CH4-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH4-NITE	0.0200	0.0100	0.0300	0.0200	0.0100	0.0300
E-C-CH4-PROJ	0.0480	0.0260	0.0740	0.0480	0.0260	0.0740
E-C-CH4-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH4-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH4-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH5	45.0000	0.0000	45.0000	45.0000	0.0000	45.0000
E-C-CH5-DEFT	0.0520	0.0280	0.0800	0.0520	0.0280	0.0800
E-C-CH5-DMND	3.2000	1.6000	4.8000	3.2000	1.6000	4.8000
E-C-CH5-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH5-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH5-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH5-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH6	60.0000	0.0000	60.0000	60.0000	0.0000	60.0000
E-C-CH6-DEFT	0.0520	0.0280	0.0800	0.0520	0.0280	0.0800
E-C-CH6-DMND	3.2000	1.6000	4.8000	3.2000	1.6000	4.8000
E-C-CH6-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH6-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH6-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH6-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH7	62.5000	0.0000	62.5000	62.5000	0.0000	62.5000
E-C-CH7-DEFT	0.0520	0.0280	0.0800	0.0520	0.0280	0.0800
E-C-CH7-DMND	3.2000	1.1000	4.3000	3.2000	1.1000	4.3000
E-C-CH7-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH7-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH7-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH7-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH8	79.5000	0.0000	79.5000	79.5000	0.0000	79.5000
E-C-CH8-DEFT	0.0320	0.0280	0.0600	0.0320	0.0280	0.0600
E-C-CH8-DMND	2.8000	1.5000	4.3000	2.8000	1.5000	4.3000
E-C-CH8-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH8-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH8-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH8-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH9	89.5000	0.0000	89.5000	89.5000	0.0000	89.5000
E-C-CH9-DEFT	0.0320	0.0280	0.0600	0.0320	0.0280	0.0600
E-C-CH9-DMND	2.8000	1.5000	4.3000	2.8000	1.5000	4.3000

Price Summary 2019-20						
Price Code	\$ DP ₂₀₂₀ Apr/May	\$ PTP ₂₀₂₀ Apr/May	\$ Total	\$ DP ₂₀₂₀ Jun to Mar	\$ PTP ₂₀₂₀ Jun to Mar	\$ Total
E-C-CH9-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH9-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH9-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH9-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH10	89.5000	0.0000	89.5000	89.5000	0.0000	89.5000
E-C-CH10-DEFT	0.0320	0.0280	0.0600	0.0320	0.0280	0.0600
E-C-CH10-DMND	2.8000	1.5000	4.3000	2.8000	1.5000	4.3000
E-C-CH10-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH10-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH10-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH10-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH11	89.5000	0.0000	89.5000	89.5000	0.0000	89.5000
E-C-CH11-DEFT	0.0200	0.0200	0.0400	0.0200	0.0200	0.0400
E-C-CH11-DMND	2.8000	1.5000	4.3000	2.8000	1.5000	4.3000
E-C-CH11-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH11-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH11-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH11-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH12	495.0000	0.0000	495.0000	495.0000	0.0000	495.0000
E-C-CH12-DEFT	0.0200	0.0200	0.0400	0.0200	0.0200	0.0400
E-C-CH12-DMND	2.8000	1.5000	4.3000	2.8000	1.5000	4.3000
E-C-CH12-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH12-SOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
E-C-CH12-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH12-WOPD	7.4000	3.1000	10.5000	8.3300	2.1700	10.5000
F-C-CH13	89.5000	0.0000	89.5000	89.5000	0.0000	89.5000
E-C-CH13-DMND	3.5000	0.8000	4.3000	3.5000	0.8000	4.3000
E-C-CH13-KVAR	0.0000	7.7500	7.7500	0.0000	7.7500	7.7500
E-C-CH13-SOPD	8.5000	2.0000	10.5000	8.5000	2.0000	10.5000
E-C-CH13-TAIC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
E-C-CH13-WOPD	8.5000	2.0000	10.5000	8.5000	2.0000	10.5000
E-C-U01-UNMT	0.0952	0.0448	0.1400	0.0952	0.0448	0.1400
F-C-U02	0.0500	0.0000	0.0500	0.0500	0.0000	0.0500
E-C-U02-UNMT	0.0952	0.0448	0.1400	0.0952	0.0448	0.1400
F-C-U03	0.0500	0.0000	0.0500	0.0500	0.0000	0.0500
E-C-U03-UNMT	0.0918	0.0432	0.1350	0.0918	0.0432	0.1350
F-C-T1P	1.5500	0.0000	1.5500	1.5500	0.0000	1.5500
E-C-T1P-24UC	0.0800	0.0583	0.1383	0.0800	0.0583	0.1383

Appendix E – Methodology Used to Calculate Distribution Prices and Pass-through Prices (Clause 11.4(e))

Centralines' Board of Directors established a desired level of overall price increase for the network of 0%. This was due to concerns about rate shock and a desire to smooth price increases to consumers over time.

To achieve this, distribution prices were set to under-achieve the Allowable Notional Revenue, while simultaneously seeking to ensure that the forecast pass-through revenue would be sufficient to attain a pass-through balance that was close to zero. Once more definite forecast costs and revenue were established a change to the distribution/pass-through allocation was processed for the period 1 June through to the end of March. The total prices remained the same as disclosed to retailers in January, it was only the allocation that changed.

As a general principle, price codes had a higher proportion allocated to the distribution component, where the price code:

- delivered more predictable revenue flows, and
- had less opportunity for fluctuation due to outside influences.

By setting price codes in this way, it served to:

- protect Centralines from excessive fluctuation of revenue from one year to the next in order to be able to cover distribution costs, and
- reduce individual price fluctuations for consumers from one year to the next for the same reason.

As a result of the above, Centralines has:

- under-recovered the Allowable Notional Revenue for the year, and
 - recovered pass-through and recoverable revenue at close to actual costs.
-

Appendix F – Pass-through Prices and Quantities for 2020 and 2019 Assessment Periods (Clause 11.4(f))

2020 Assessment Period

Price Code	Q ₂₀₂₀ Apr/May	\$ PTP ₂₀₂₀ Apr/May	\$ PTP ₂₀₂₀ x Q ₂₀₂₀ Apr/May
E-C-CH11-DMND	2,421.60	1.5000	3,632.40
E-C-CH11-KVAR	45.00	7.7500	348.75
E-C-CH11-SOPD	2,328.60	3.1000	7,218.66
E-C-CH11-TAIC	1,162,489.00	0.0000	0.00
E-C-CH1-24UC	817,046.99	0.0401	32,763.58
E-C-CH12-DMND	7,193.70	1.5000	10,790.55
E-C-CH12-KVAR	0.00	7.7500	0.00
E-C-CH12-SOPD	7,147.44	3.1000	22,157.06
E-C-CH12-TAIC	3,385,558.00	0.0000	0.00
E-C-CH1-AICO	1,483,062.69	0.0409	60,657.26
E-C-CH1-CTRL	91,848.50	0.0370	3,398.39
E-C-CH1-CTUD	51,808.42	0.0860	4,455.52
E-C-CH1-DGEN	11,145.45	0.0000	0.00
E-C-CH1G-24UC	13,169.00	0.0954	1,256.32
E-C-CH1G-AICO	1,988.00	0.0820	163.02
E-C-CH1G-DGEN	3,376.00	0.0000	0.00
E-C-CH1-NITE	23,179.18	0.0220	509.94
E-C-CH1-PROJ	351.00	0.0641	22.50
E-C-CH1T-CTRL	2,309.59	0.0352	81.30
E-C-CH1T-OFPK	48,581.21	0.0352	1,710.06
E-C-CH1T-ONPK	25,239.48	0.0928	2,342.22
E-C-CH1T-PROJ	6,063.65	0.0928	562.71
E-C-CH2G-24UC	27,291.00	0.0503	1,372.74
E-C-CH2G-AICO	12,518.00	0.0500	625.90
E-C-CH2G-CTUD	215.00	0.1750	37.63
E-C-CH2G-DGEN	12,832.00	0.0000	0.00
E-C-CH2G-NITE	-155.00	0.0560	-8.68
E-C-CH2G-PROJ	0.00	0.0283	0.00
E-C-CH2H-24UC	1,455,224.30	0.0405	58,936.58
E-C-CH2H-CTRL	27,194.00	0.0320	870.21
E-C-CH2H-CTUD	108,552.27	0.0610	6,621.69
E-C-CH2H-NITE	42,584.59	0.0200	851.69
E-C-CH2H-PROJ	5.00	0.0505	0.25
E-C-CH2I-24UC	28,963.09	0.0364	1,054.26
E-C-CH2I-CTRL	8.00	0.0258	0.21
E-C-CH2I-CTUD	-148,272.00	0.0500	-7,413.60
E-C-CH2I-NITE	-101,758.00	0.0152	-1,546.72
E-C-CH2I-PROJ	0.00	0.0364	0.00
E-C-CH2L-24UC	415,245.82	0.0430	17,855.57

Price Code	Q 2020 Apr/May	\$ PTP 2020 Apr/May	\$ PTP ₂₀₂₀ x Q ₂₀₂₀ Apr/May
E-C-CH2L-CTRL	3,270.00	0.0190	62.13
E-C-CH2L-CTUD	-1,357.00	0.0410	-55.64
E-C-CH2L-NITE	-599.00	0.0140	-8.39
E-C-CH2L-PROJ	794.00	0.0350	27.79
E-C-CH2R-24UC	1,697,536.34	0.0403	68,410.71
E-C-CH2R-AICO	2,175,713.98	0.0400	87,028.56
E-C-CH2R-CTRL	153,635.72	0.0280	4,301.80
E-C-CH2R-CTUD	81,775.00	0.0710	5,806.03
E-C-CH2R-DGEN	8,914.18	0.0000	0.00
E-C-CH2R-NITE	36,458.00	0.0240	874.99
E-C-CH2R-PROJ	-381.00	0.0503	-19.16
E-C-CH2T-CTRL	673.49	0.0192	12.93
E-C-CH2T-NITE	0.00	0.0240	0.00
E-C-CH2T-OFPK	32,064.77	0.0192	615.64
E-C-CH2T-ONPK	17,075.10	0.0736	1,256.73
E-C-CH2T-PROJ	1,452.70	0.0736	106.92
E-C-CH3-24UC	666,375.74	0.0350	23,323.15
E-C-CH3-CTRL	2,641.00	0.0220	58.10
E-C-CH3-CTUD	143,089.46	0.0550	7,869.92
E-C-CH3-DGEN	141.00	0.0000	0.00
E-C-CH3-DMND	302.66	2.4000	726.38
E-C-CH3-KVAR	57.91	7.7500	448.78
E-C-CH3-NITE	56,684.66	0.0157	889.95
E-C-CH3-PROJ	0.00	0.0350	0.00
E-C-CH3-SOPD	286.62	3.1000	888.52
E-C-CH3-TAIC	118,400.00	0.0000	0.00
E-C-CH4-24UC	324,529.14	0.0260	8,437.76
E-C-CH4-CTUD	139,495.00	0.0372	5,189.21
E-C-CH4-DGEN	0.00	0.0000	0.00
E-C-CH4-DMND	788.34	2.4000	1,892.02
E-C-CH4-KVAR	132.54	7.7500	1,027.19
E-C-CH4-NITE	38,700.00	0.0100	387.00
E-C-CH4-PROJ	22,400.00	0.0260	582.40
E-C-CH4-SOPD	782.58	3.1000	2,426.00
E-C-CH4-TAIC	308,454.00	0.0000	0.00
E-C-CH5-DMND	2,697.90	1.6000	4,316.64
E-C-CH5-KVAR	222.82	7.7500	1,726.86
E-C-CH5-SOPD	2,634.58	3.1000	8,167.20
E-C-CH5-TAIC	751,383.00	0.0000	0.00
E-C-CH6-DMND	339.88	1.6000	543.81
E-C-CH6-KVAR	80.39	7.7500	623.00
E-C-CH6-SOPD	310.74	3.1000	963.29
E-C-CH6-TAIC	92,916.00	0.0000	0.00
E-C-CH8-DMND	608.76	1.5000	913.14
E-C-CH8-KVAR	9.40	7.7500	72.85

Price Code	Q 2020 Apr/May	\$ PTP 2020 Apr/May	\$ PTP ₂₀₂₀ X Q ₂₀₂₀ Apr/May
E-C-CH8-TAIC	250,927.00	0.0000	0.00
E-C-CH8-WOPD	607.28	3.1000	1,882.57
E-C-T1P-24UC	-1,820.00	0.0583	-106.11
E-C-U01-UNMT	60,735.15	0.0448	2,720.93
E-C-U02-UNMT	81,186.76	0.0448	3,637.17
E-C-U03-UNMT	10,123.00	0.0432	437.31
F-C-CH1	170,221.00	0.0000	0.00
F-C-CH11	61.00	0.0000	0.00
F-C-CH12	61.00	0.0000	0.00
F-C-CH1G	889.00	0.0000	0.00
F-C-CH1T	5,004.00	0.0000	0.00
F-C-CH2G	1,963.00	0.6860	1,346.62
F-C-CH2H	32,588.00	0.0000	0.00
F-C-CH2I	4,679.00	0.0000	0.00
F-C-CH2L	79,644.00	0.3500	27,875.40
F-C-CH2R	194,003.00	0.0000	0.00
F-C-CH2T	1,821.00	0.0000	0.00
F-C-CH3	5,014.00	0.0000	0.00
F-C-CH4	1,433.00	0.0000	0.00
F-C-CH5	549.00	0.0000	0.00
F-C-CH6	61.00	0.0000	0.00
F-C-CH8	61.00	0.0000	0.00
F-C-T1P	300.00	0.0000	0.00
F-C-U02	63,623.00	0.0000	0.00
	16,872,025.15	PTP 2020 X Q 2020	\$509,016.07
			Apr / May

Price Code	Q 2020 Jun to Mar	\$ PTP 2020 Jun to Mar	\$ PTP ₂₀₂₀ X Q ₂₀₂₀ Jun to Mar	\$ Total PT Revenue
E-C-CH11-DMND	14,052.00	1.5000	21,078.00	24,710.40
E-C-CH11-KVAR	205.40	7.7500	1,591.85	1,940.60
E-C-CH11-SOPD	13,357.80	2.1700	28,986.43	36,205.09
E-C-CH11-TAIC	6,246,757.00	0.0000	0.00	0.00
E-C-CH1-24UC	4,117,341.13	0.0100	41,173.41	73,937.00
E-C-CH12-DMND	39,852.92	1.5000	59,779.38	70,569.93
E-C-CH12-KVAR	37.22	7.7500	288.46	288.46
E-C-CH12-SOPD	39,313.10	2.1700	85,309.43	107,466.49
E-C-CH12-TAIC	19,458,452.00	0.0000	0.00	0.00
E-C-CH1-AICO	7,339,366.33	0.0102	74,861.54	135,518.80
E-C-CH1-CTRL	452,412.24	0.0093	4,207.43	7,605.83
E-C-CH1-CTUD	262,568.68	0.0215	5,645.23	10,100.75
E-C-CH1-DGEN	74,455.52	0.0000	0.00	0.00
E-C-CH1G-24UC	59,612.51	0.0954	5,687.03	6,943.36
E-C-CH1G-AICO	6,086.27	0.0820	499.07	662.09
E-C-CH1G-DGEN	46,610.82	0.0000	0.00	0.00

Price Code	Q ₂₀₂₀ Jun to Mar	\$ PTP ₂₀₂₀ Jun to Mar	\$ PTP ₂₀₂₀ X Q ₂₀₂₀ Jun to Mar	\$ Total PT Revenue
E-C-CH1-NITE	114,621.23	0.0055	630.42	1,140.36
E-C-CH1-PROJ	2,444.00	0.0100	24.44	46.94
E-C-CH1T-CTRL	15,255.65	0.0352	537.00	618.30
E-C-CH1T-OFPK	288,836.73	0.0352	10,167.05	11,877.11
E-C-CH1T-ONPK	131,006.08	0.0928	12,157.36	14,499.59
E-C-CH1T-PROJ	33,761.00	0.0928	3,133.02	3,695.73
E-C-CH2G-24UC	164,403.54	0.0503	8,269.50	9,642.24
E-C-CH2G-AICO	57,993.64	0.0500	2,899.68	3,525.58
E-C-CH2G-CTUD	1,578.00	0.1750	276.15	313.78
E-C-CH2G-DGEN	91,643.78	0.0000	0.00	0.00
E-C-CH2G-NITE	288.00	0.0560	16.13	7.45
E-C-CH2G-PROJ	2,897.00	0.0283	81.99	81.99
E-C-CH2H-24UC	7,663,386.54	0.0405	310,367.15	369,303.74
E-C-CH2H-CTRL	112,180.48	0.0320	3,589.78	4,459.98
E-C-CH2H-CTUD	697,650.61	0.0610	42,556.69	49,178.38
E-C-CH2H-NITE	261,519.41	0.0200	5,230.39	6,082.08
E-C-CH2H-PROJ	845.00	0.0505	42.67	42.93
E-C-CH2I-24UC	3,638,567.44	0.0364	132,443.85	133,498.11
E-C-CH2I-CTRL	35.00	0.0258	0.90	1.11
E-C-CH2I-CTUD	2,528,044.35	0.0500	126,402.22	118,988.62
E-C-CH2I-NITE	1,269,832.35	0.0152	19,301.45	17,754.73
E-C-CH2I-PROJ	11,868.00	0.0364	432.00	432.00
E-C-CH2L-24UC	2,366,432.75	0.0430	101,756.61	119,612.18
E-C-CH2L-CTRL	20,905.65	0.0190	397.21	459.34
E-C-CH2L-CTUD	5,003.94	0.0410	205.16	149.52
E-C-CH2L-NITE	1,847.94	0.0140	25.87	17.49
E-C-CH2L-PROJ	2,566.00	0.0350	89.81	117.60
E-C-CH2R-24UC	8,882,297.86	0.0101	89,711.21	158,121.92
E-C-CH2R-AICO	10,888,147.78	0.0100	108,881.48	195,910.04
E-C-CH2R-CTRL	782,304.31	0.0070	5,476.13	9,777.93
E-C-CH2R-CTUD	440,822.42	0.0178	7,846.64	13,652.66
E-C-CH2R-DGEN	65,485.86	0.0000	0.00	0.00
E-C-CH2R-NITE	211,073.94	0.0060	1,266.44	2,141.44
E-C-CH2R-PROJ	2,478.00	0.0101	25.03	5.86
E-C-CH2T-CTRL	5,901.65	0.0192	113.31	126.24
E-C-CH2T-NITE	17.10	0.0240	0.41	0.41
E-C-CH2T-OFPK	215,505.19	0.0192	4,137.70	4,753.34
E-C-CH2T-ONPK	101,588.08	0.0736	7,476.88	8,733.61
E-C-CH2T-PROJ	7,499.81	0.0736	551.99	658.90
E-C-CH3-24UC	3,679,722.84	0.0350	128,790.30	152,113.45
E-C-CH3-CTRL	19,208.00	0.0220	422.58	480.68
E-C-CH3-CTUD	828,588.06	0.0550	45,572.34	53,442.26
E-C-CH3-DGEN	-35.00	0.0000	0.00	0.00
E-C-CH3-DMND	1,556.28	2.4000	3,735.07	4,461.46
E-C-CH3-KVAR	193.36	7.7500	1,498.54	1,947.32

Price Code	Q ₂₀₂₀ Jun to Mar	\$ PTP ₂₀₂₀ Jun to Mar	\$ PTP ₂₀₂₀ X Q ₂₀₂₀ Jun to Mar	\$ Total PT Revenue
E-C-CH3-NITE	327,375.59	0.0157	5,139.80	6,029.75
E-C-CH3-PROJ	31.00	0.0350	1.09	1.09
E-C-CH3-SOPD	1,492.78	2.1700	3,239.33	4,127.85
E-C-CH3-TAIC	583,645.00	0.0000	0.00	0.00
E-C-CH4-24UC	1,540,280.05	0.0260	40,047.28	48,485.04
E-C-CH4-CTUD	788,797.00	0.0372	29,343.25	34,532.46
E-C-CH4-DGEN	1,817.00	0.0000	0.00	0.00
E-C-CH4-DMND	4,301.36	2.4000	10,323.26	12,215.28
E-C-CH4-KVAR	723.55	7.7500	5,607.49	6,634.67
E-C-CH4-NITE	231,586.00	0.0100	2,315.86	2,702.86
E-C-CH4-PROJ	5,479.00	0.0260	142.45	724.85
E-C-CH4-SOPD	4,146.82	2.1700	8,998.60	11,424.60
E-C-CH4-TAIC	1,777,066.00	0.0000	0.00	0.00
E-C-CH5-DMND	14,220.84	1.6000	22,753.34	27,069.98
E-C-CH5-KVAR	1,371.41	7.7500	10,628.40	12,355.26
E-C-CH5-SOPD	13,861.34	2.1700	30,079.11	38,246.31
E-C-CH5-TAIC	4,546,017.00	0.0000	0.00	0.00
E-C-CH6-DMND	1,668.30	1.6000	2,669.28	3,213.09
E-C-CH6-KVAR	403.79	7.7500	3,129.35	3,752.34
E-C-CH6-SOPD	1,560.72	2.1700	3,386.76	4,350.06
E-C-CH6-TAIC	467,663.00	0.0000	0.00	0.00
E-C-CH8-DMND	1,170.16	1.5000	1,755.24	2,668.38
E-C-CH8-KVAR	9.00	7.7500	69.75	142.60
E-C-CH8-TAIC	300,219.00	0.0000	0.00	0.00
E-C-CH8-WOPD	1,113.72	2.1700	2,416.77	4,299.34
E-C-T1P-24UC	13,519.06	0.0583	788.16	682.06
E-C-U01-UNMT	263,970.39	0.0448	11,825.87	14,546.81
E-C-U02-UNMT	351,433.78	0.0448	15,744.23	19,381.40
E-C-U03-UNMT	102,797.00	0.0432	4,440.83	4,878.14
F-C-CH1	844,200.00	0.0000	0.00	0.00
F-C-CH11	305.00	0.0000	0.00	0.00
F-C-CH12	305.00	0.0000	0.00	0.00
F-C-CH1G	5,582.00	0.0000	0.00	0.00
F-C-CH1T	29,005.00	0.0000	0.00	0.00
F-C-CH2G	11,500.00	0.6860	7,889.00	9,235.62
F-C-CH2H	162,572.00	0.0000	0.00	0.00
F-C-CH2I	23,944.00	0.0000	0.00	0.00
F-C-CH2L	397,395.00	0.3500	139,088.25	166,963.65
F-C-CH2R	982,394.00	0.0000	0.00	0.00
F-C-CH2T	13,595.00	0.0000	0.00	0.00
F-C-CH3	26,118.00	0.0000	0.00	0.00
F-C-CH4	6,869.00	0.0000	0.00	0.00
F-C-CH5	2,745.00	0.0000	0.00	0.00
F-C-CH6	305.00	0.0000	0.00	0.00
F-C-CH8	305.00	0.0000	0.00	0.00

Price Code	Q ₂₀₂₀ Jun to Mar	\$ PTP ₂₀₂₀ Jun to Mar	\$ PTP ₂₀₂₀ X Q ₂₀₂₀ Jun to Mar	\$ Total PT Revenue
F-C-T1P	3,101.00	0.0000	0.00	0.00
F-C-U02	318,420.00	0.0000	0.00	0.00
	97,964,650.21		\$1,877,470.56	\$2,386,486.63
			Jun to Mar	Annual

2019 Assessment Period

Price Code	Quantity	Pass-through Price \$	Total Pass-through Revenue \$
	Q ₂₀₁₉	PTP ₂₀₁₉	PTP ₂₀₁₉ X Q ₂₀₁₉
E-C-CH11-DMND	14,900.40	1.5000	22,350.60
E-C-CH11-KVAR	76.00	7.7500	589.00
E-C-CH11-SOPD	14,556.60	3.7000	53,859.42
E-C-CH11-TAIC	7,089,277.00	0.0000	0.00
E-C-CH1-24UC	4,639,615.27	0.0641	297,399.34
E-C-CH12-DMND	48,677.22	1.5000	73,015.83
E-C-CH12-KVAR	8,582.46	7.7500	66,514.07
E-C-CH12-SOPD	47,741.90	3.7000	176,645.03
E-C-CH12-TAIC	22,746,017.00	0.0000	0.00
E-C-CH1-AICO	8,731,973.65	0.0550	480,258.55
E-C-CH1-CTRL	580,950.99	0.0370	21,495.19
E-C-CH1-CTUD	315,676.39	0.0860	27,148.17
E-C-CH1-DGEN	70,417.92	0.0000	0.00
E-C-CH1G-24UC	51,300.00	0.0954	4,894.02
E-C-CH1G-AICO	413.00	0.0820	33.87
E-C-CH1G-DGEN	27,918.00	0.0000	0.00
E-C-CH1-NITE	139,399.76	0.0220	3,066.79
E-C-CH1-PROJ	3,058.00	0.0641	196.02
E-C-CH1T-CTRL	12,479.08	0.0352	439.26
E-C-CH1T-OFPK	255,253.08	0.0352	8,984.91
E-C-CH1T-ONPK	136,790.34	0.0928	12,694.14
E-C-CH1T-PROJ	12,188.85	0.0928	1,131.13
E-C-CH2G-24UC	117,641.00	0.0503	5,917.34
E-C-CH2G-AICO	68,856.00	0.0500	3,442.80
E-C-CH2G-CTUD	288.00	0.1750	50.40
E-C-CH2G-DGEN	61,474.00	0.0000	0.00
E-C-CH2G-NITE	237.00	0.0560	13.27
E-C-CH2G-PROJ	894.00	0.0283	25.30
E-C-CH2H-24UC	8,326,001.31	0.0505	420,463.07
E-C-CH2H-CTRL	98,973.00	0.0320	3,167.14
E-C-CH2H-CTUD	870,304.74	0.0610	53,088.59

Price Code	Quantity	Pass-through Price \$	Total Pass-through Revenue \$
	Q ₂₀₁₉	PTP ₂₀₁₉	PTP ₂₀₁₉ X Q ₂₀₁₉
E-C-CH2H-NITE	348,598.11	0.0200	6,971.96
E-C-CH2H-PROJ	120,398.94	0.0505	6,080.15
E-C-CH2I-24UC	1,966,713.55	0.0364	71,588.37
E-C-CH2I-CTRL	35.00	0.0258	0.90
E-C-CH2I-CTUD	2,232,806.00	0.0500	111,640.30
E-C-CH2I-NITE	1,109,561.00	0.0152	16,865.33
E-C-CH2I-PROJ	30,931.00	0.0364	1,125.89
E-C-CH2L-24UC	2,596,015.07	0.0430	111,628.65
E-C-CH2L-CTRL	26,178.00	0.0190	497.38
E-C-CH2L-CTUD	22,208.00	0.0410	910.53
E-C-CH2L-NITE	9,951.00	0.0140	139.31
E-C-CH2L-PROJ	3,549.00	0.0350	124.22
E-C-CH2R-24UC	10,850,477.71	0.0945	1,024,936.12
E-C-CH2R-AICO	13,575,993.10	0.0810	1,100,198.48
E-C-CH2R-CTRL	1,025,762.16	0.0561	57,524.74
E-C-CH2R-CTUD	637,387.64	0.1412	90,024.63
E-C-CH2R-DGEN	87,063.30	0.0000	0.00
E-C-CH2R-NITE	291,437.64	0.0490	14,268.79
E-C-CH2R-PROJ	-1,535.00	0.0945	-145.00
E-C-CH2T-CTRL	440.79	0.0192	8.46
E-C-CH2T-OFPK	151,032.14	0.0192	2,899.82
E-C-CH2T-ONPK	71,163.15	0.0736	5,237.61
E-C-CH2T-PROJ	1,679.79	0.0736	123.63
E-C-CH3-24UC	3,968,220.88	0.0350	138,887.73
E-C-CH3-CTRL	24,806.00	0.0220	545.73
E-C-CH3-CTUD	1,042,031.26	0.0550	57,311.72
E-C-CH3-DGEN	1,112.00	0.0000	0.00
E-C-CH3-DMND	2,111.88	2.4000	5,068.51
E-C-CH3-KVAR	367.62	7.7500	2,849.05
E-C-CH3-NITE	408,679.75	0.0157	6,408.10
E-C-CH3-PROJ	204.00	0.0350	7.14
E-C-CH3-SOPD	2,004.80	3.7000	7,417.76
E-C-CH3-TAIC	786,302.00	0.0000	0.00
E-C-CH4-24UC	2,401,440.21	0.0260	62,437.45
E-C-CH4-CTUD	1,128,327.00	0.0372	41,973.76
E-C-CH4-DGEN	1,601.00	0.0000	0.00
E-C-CH4-DMND	5,521.76	2.4000	13,252.22
E-C-CH4-KVAR	1,020.66	7.7500	7,910.11
E-C-CH4-NITE	315,431.00	0.0100	3,154.31
E-C-CH4-PROJ	27,007.00	0.0260	702.18

Price Code	Quantity	Pass-through Price \$	Total Pass-through Revenue \$
	Q ₂₀₁₉	PTP ₂₀₁₉	PTP ₂₀₁₉ X Q ₂₀₁₉
E-C-CH4-SOPD	5,375.44	3.7000	19,889.13
E-C-CH4-TAIC	2,030,428.00	0.0000	0.00
E-C-CH5-DMND	17,235.08	1.6000	27,576.13
E-C-CH5-KVAR	1,819.07	7.7500	14,097.82
E-C-CH5-SOPD	16,713.36	3.7000	61,839.43
E-C-CH5-TAIC	5,302,950.00	0.0000	0.00
E-C-CH6-DMND	1,847.08	1.6000	2,955.33
E-C-CH6-KVAR	357.75	7.7500	2,772.59
E-C-CH6-SOPD	1,746.76	3.7000	6,463.01
E-C-CH6-TAIC	530,217.00	0.0000	0.00
E-C-CH8-DMND	1,824.80	1.5000	2,737.20
E-C-CH8-KVAR	34.55	7.7500	267.74
E-C-CH8-TAIC	630,521.00	0.0000	0.00
E-C-CH8-WOPD	1,795.04	3.7000	6,641.65
E-C-T1P-24UC	7,115.00	0.0583	414.80
E-C-U01-UNMT	322,813.80	0.0448	14,462.06
E-C-U02-1	394,508.10	0.0448	17,673.96
E-C-U02-2	33,533.12	0.0448	1,502.28
E-C-U02-3	57,826.40	0.0448	2,590.62
E-C-U02-4	2,123.13	0.0448	95.12
E-C-U03-UNMT	47,767.00	0.0432	2,063.53
F-C-CH1	985,334.00	0.0000	0.00
F-C-CH11	365.00	0.0000	0.00
F-C-CH12	365.00	0.0000	0.00
F-C-CH1G	4,058.00	0.0000	0.00
F-C-CH1T	26,805.00	0.0000	0.00
F-C-CH2G	8,785.00	0.6860	6,026.51
F-C-CH2H	186,137.00	0.0000	0.00
F-C-CH2I	27,399.00	0.0000	0.00
F-C-CH2L	492,669.00	0.2500	123,167.25
F-C-CH2R	1,185,756.00	0.0000	0.00
F-C-CH2T	8,319.00	0.0000	0.00
F-C-CH3	28,821.00	0.0000	0.00
F-C-CH4	9,147.00	0.0000	0.00
F-C-CH5	3,285.00	0.0000	0.00
F-C-CH6	365.00	0.0000	0.00
F-C-CH8	365.00	0.0000	0.00
F-C-T1P	1,172.00	0.0000	0.00
F-C-U02-1	323,387.00	0.0000	0.00
F-C-U02-3	24,339.00	0.0000	0.00

Price Code	Quantity	Pass-through Price \$	Total Pass-through Revenue \$
	Q ₂₀₁₉	PTP ₂₀₁₉	PTP ₂₀₁₉ X Q ₂₀₁₉
F-C-U02-4	2,190.00	0.0000	0.00
F-C-U03-3	26,936.00	0.0000	0.00
		PTP₂₀₁₉ X Q₂₀₁₉	\$5,020,695.46

Appendix G – Pass-through Costs and Recoverable Costs – Actual and Forecast (Clauses 8.6(b) and 11.4(g), (h), (i) and (j))

Pass-through and recoverable costs table The table below shows the pass-through costs and recoverable costs for the year ending March 2020.

Pass-through and Recoverable Costs for year ending March 2020				
V ₂₀₂₀	Actual (\$)	Forecast (\$)	Variance (\$)	Variance (%)
Transmission Charges	2,906,852	2,906,852	0	0.0%
Avoided Transmission Charges	0	0	0	0.0%
Transpower New Investment Contract Charges	0	0	0	0.0%
Distributed Generation Allowance	0	0	0	0.0%
Claw Back	503,000	503,000	0	0.0%
NPV Wash-up	292,000	292,000	0	0.0%
Capex Wash-up	-83,000	-83,000	0	0.0%
Quality Incentive Adjustment	21,284	25,475	-4,191	-16.5%
Correction of Quality Incentive Adjustment for 2016-2017	-12,920	0	-12,920	-100.0%
K ₂₀₂₀	Actual (\$)	Forecast (\$)	Variance (\$)	Variance (%)
Local Authority Rates	40,687	40,803	-116	-0.3%
Electricity Authority Levies	20,934	21,257	-323	-1.5%
Commerce Act Levies	28,106	33,138	-5,032	-15.2%
Utilities Disputes Levies	4,669	4,558	111	2.4%
Total Pass-through and Recoverable Costs	3,721,612	3,744,083	-\$22,471	-0.6%

Continued on next page

Appendix G – Pass-through Costs and Recoverable Pass-through Costs – Actual and Forecast (Clauses 8.6(b) and 11.4(g), (h), (i) and (j)), Continued

Explanations for variances

None of these costs are fully fixed and variances will naturally occur. Listed below are explanations for variances.

- Transmission – transmission as forecast.
- Avoided Transmission – no avoided transmission.
- Quality Incentive Adjustment – the forecast was based on the Allowable Notional Revenue being used as Maximum Allowable Revenue for the calculation of the Incentive. The correct figure is the figure stipulated in the Determination.
- Rates – minimal variation from rates forecasts.
- Electricity Authority Levies – minimal variation from forecast.
- Commerce Act Levies – a small increase was forecast from the previous period, and there was a decrease. The annual wash-up was also less than forecast.
- Utilities Disputes' Levies – minimal variation from forecast.

Quality Incentive Adjustment Calculation	
<i>SAIDI</i> ₂₀₁₇₋₁₈	131.669
<i>SAIFI</i> ₂₀₁₇₋₁₈	2.230
<i>MAR</i>	9,983,000
<i>REV</i> _{RISK}	99,830
<i>SAIDI</i> _{IR}	2,461.79
<i>SAIDI</i> _{assess}	131.669
<i>S</i>SAIDI	- 31,011.66
<i>SAIFI</i> _{IR}	73,232.10
<i>SAIFI</i> _{assess}	2.8397
<i>S</i>SAIFI	49,922.32
<i>S</i>TOTAL	18,910.67
Cost of debt (COD) Rate	6.09%
COD \$ Value	2,373
<i>Note: Cost of debt calculated for 2 x years</i>	
Quality Incentive Adjustment	\$ 21,284

Appendix H – Quality Standard Compliance Calculations (Clause 11.5(c))

Reliability Data (before Normalisation)

Year	SAIDI (Interruption Duration)			SAIFI (Interruption Frequency)		
	Class B	Class C	Total	Class B	Class C	Total
2020	68.928	80.442	114.906	0.335	1.772	1.940

SAIDI and SAIFI Limits, Unplanned Boundary Values, Caps, Collars, and the Targets for the Regulatory Period 1 April 2015 – 31 March 2020

SAIDI Quality Measures		
<i>SAIDI_{Boundary}</i>	8.517	SAIDI Unplanned Boundary value: 23 rd highest daily unplanned SAIDI value in the Reference Dataset.
<i>Daily_{planned}</i>	560.897	The sum of all daily planned SAIDI values in the Reference Dataset.
<i>Daily_{unplanned}</i>	910.270	The sum of all daily unplanned SAIDI values in the Reference Dataset, where any daily unplanned SAIDI Values greater than the SAIDI Unplanned Boundary Value equals that value.
<i>SAIDI_{Target}</i>	119.072	$(\text{Daily}_{\text{planned}} * 0.5) + \text{Daily}_{\text{unplanned}} / 10$
<i>SAIDI_{deviation}</i>	1.061	The standard deviation of the daily SAIDI assessed values (daily planned value * 0.5 + normalised daily unplanned value).
<i>SAIDI_{Limit} / SAIDI_{Cap}</i>	139.348	$\text{SAIDI}_{\text{target}} + (\text{SAIDI}_{\text{deviation}} * \sqrt{365})$
<i>SAIDI_{Collar}</i>	98.796	$\text{SAIDI}_{\text{target}} - (\text{SAIDI}_{\text{deviation}} * \sqrt{365})$

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Appendix H – Quality Standard Compliance Calculations (Clause 11.5(c)), Continued

SAIFI Quality Measures

<i>SAIFI_{Boundary}</i>	0.294	SAIFI Unplanned Boundary value: 23 rd highest daily unplanned SAIFI value in the Reference Dataset.
<i>Daily_{planned}</i>	2.549	The sum of all daily planned SAIFI values in the Reference Dataset.
<i>Daily_{unplanned}</i>	33.939	The sum of all daily unplanned SAIFI values in the Reference Dataset, where any daily unplanned SAIFI Values greater than the SAIFI Unplanned Boundary Value equals that value.
<i>SAIFI_{Target}</i>	3.521	$(\text{Daily}_{\text{planned}} * 0.5) + \text{Daily}_{\text{unplanned}} / 10$
<i>SAIFI_{deviation}</i>	0.036	The standard deviation of the daily SAIFI assessed values (daily planned value * 0.5 + normalised daily unplanned value).
<i>SAIFI_{Limit} / SAIFI_{Cap}</i>	4.203	$\text{SAIFI}_{\text{target}} + (\text{SAIFI}_{\text{deviation}} * \sqrt{365})$
<i>SAIFI_{Collar}</i>	2.840	$\text{SAIFI}_{\text{target}} - (\text{SAIFI}_{\text{deviation}} * \sqrt{365})$

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Appendix H – Quality Standard Compliance Calculations (Clause 11.5(c)), Continued

Interpretation of successive interruptions

An unplanned loss of supply event can, in some circumstances, be followed by restoration of supply to some consumers and then by a successive interruption as a result of:

- isolating the initial cause, or
- making repairs and completing the permanent restoration of supply to all consumers.

For the avoidance of doubt, where this occurs, Centralines reported SAIFI records the initial outage and not any subsequent short duration outages required to effect the restoration of supply. Centralines reported SAIDI includes the consumer minutes from subsequent short duration outages required to effect the restoration of supply. This recording approach has not changed from Centralines previous statements.

There have been no Major Event Days in the 2019/20 Assessment Period, where the Daily SAIDI Value for Class C Interruptions Exceeds the SAIDI Unplanned Boundary Value.

There have been no Major Event Days in the 2019/20 Assessment Period, where the Daily SAIFI Value for Class C Interruptions Exceeds the SAIFI Unplanned Boundary Value.

Calculation of the 2020 SAIDI Assessed Value

$$\begin{aligned} \text{SAIDI}_{\text{assess}} &= (0.5 \times \text{SAIDI}_{\text{B}}) + \text{SAIDI}_{\text{C}} \\ &= (0.5 \times 68.928) + 80.442 \\ &= 114.906 \end{aligned}$$

Assessed SAIDI Value 2020

SAIDI ₂₀₂₀	114.906	The sum of daily SAIDI Values in the 1 April 2019 – 31 March 2020 Normalised Assessment Dataset
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Calculation of the 2020 SAIFI Assessed Value

$$\begin{aligned} \text{SAIFI}_{\text{assess}} &= (0.5 \times \text{SAIFI}_{\text{B}}) + \text{SAIFI}_{\text{C}} \\ &= (0.5 \times 0.335) + 1.772 \\ &= 1.940 \end{aligned}$$

Assessed SAIFI Value 2020

SAIFI ₂₀₂₀	1.940	The sum of daily SAIFI Values in the 1 April 2019 – 31 March 2020 Normalised Assessment Dataset
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Appendix H – Quality Standard Compliance Calculations (Clause 11.5(c)), Continued

Prior Period Assessed Values

Assessed SAIDI Value

SAIDI ₂₀₁₉	107.73	The sum of daily SAIDI Values in the 1 April 2018 – 31 March 2019 Normalised Assessment Dataset
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Assessed SAIFI Value

SAIFI ₂₀₁₉	2.06	The sum of daily SAIFI Values in the 1 April 2018 – 31 March 2019 Normalised Assessment Dataset
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Assessed SAIDI Value

SAIDI ₂₀₁₈	131.67	The sum of daily SAIDI Values in the 1 April 2017 – 31 March 2018 Normalised Assessment Dataset
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Assessed SAIFI Value

SAIFI ₂₀₁₈	2.23	The sum of daily SAIFI Values in the 1 April 2017 – 31 March 2018 Normalised Assessment Dataset
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Appendix I – Quality Incentive Adjustment Clause 11.5(c) and Schedule 5B

SAIDI Quality Incentive Measures for the Regulatory Period 1 April 2015 – 31 March 2020

	SAIDI Target	SAIDI Collar	SAIDI Cap
1 April 2015 – 31 March 2020	119.0718	98.7960	139.3477

SAIFI Quality Incentive Measures for the Regulatory Period 1 April 2015 – 31 March 2020

	SAIFI Target	SAIFI Collar	SAIFI Cap
1 April 2015 – 31 March 2020	3.5214	2.8397	4.2030

Calculation of the Quality Incentive Adjustment

$$S_{TOTAL} = S_{SAIDI} + S_{SAIFI}$$

$$60,178.00 = 10,255.68 + 49,922.32$$

$$S_{SAIDI} = SAIDI_{IR} \times (SAIDI_{target} - SAIDI_{assess})$$

$$10,255.68 = 2461.79 \times (119.0718 - 114.9059)$$

Where $SAIDI_{assess}$ is:

- (i) greater than the $SAIDI_{cap}$, $SAIDI_{assess}$ equals the $SAIDI_{cap}$;
- (ii) less than the $SAIDI_{collar}$, $SAIDI_{assess}$ equals the $SAIDI_{collar}$.

$$SAIDI_{IR} = \frac{0.5 \times REV_{RISK}}{SAIDI_{cap} - SAIDI_{target}}$$

$$2461.79 = \frac{0.5 \times 99,830}{139.3477 - 119.0718}$$

$$S_{SAIFI} = SAIFI_{IR} \times (SAIFI_{target} - SAIFI_{assess})$$

$$49,922.32 = 73,232.10 \times (3.5214 - 2.8397)$$

Where $SAIFI_{assess}$ is:

- (i) greater than the $SAIFI_{cap}$, $SAIFI_{assess}$ equals the $SAIFI_{cap}$;
- (ii) less than the $SAIFI_{collar}$, $SAIFI_{assess}$ equals the $SAIFI_{collar}$.

$$SAIFI_{IR} = \frac{0.5 \times REV_{RISK}}{SAIFI_{cap} - SAIFI_{target}}$$

$$73,232.10 = \frac{0.5 \times 99,830}{4.2030 - 3.5214}$$

Appendix J – Policies and Procedures for Recording SAIDI and SAIFI (Clause 11.5(e))

Centralines systems for recording SAIDI and SAIFI

Centralines uses ADMS SCADA for recording operations of network switches with time stamped data used for calculation of SAIDI and SAIFI. A detailed explanation of how the ADMS system is used to calculate SAIDI and SAIFI can be found in the 'ADMS – All interruptions' section in this appendix.

SCADA timing

Automatically recorded SCADA data is time stamped at the Remote Terminal Unit (RTU), and the data is time corrected to the master station each half hour.

Centralines' SCADA: Remote devices in ADMS

Centralines' ADMS SCADA system has been designed to capture real-time data.

In Centralines' SCADA, all zone substation 33kV and 11kV circuit breakers are linked by RTUs. The RTUs report automatically and time stamp all changes of state of devices directly to the SCADA ADMS Event Summary.

On the SCADA system, each zone substation and 11kV feeder is represented by a schematic picture and a SCADA tile.

Centralines' SCADA: Non-remote devices in ADMS

Switching devices that have no SCADA link to Centralines have a pseudo point defined in the SCADA database. Each point has an identifier name that relates to the real world switch number.

As Field Operators complete operational items, they report this to the System Control Operator, who in turn manually sets the field device's pseudo point on the appropriate SCADA tile. This action is automatically recorded and time stamped in the SCADA ADMS Event Summary.

Outage data sources

The capture of outage data uses the following data sources and utilities.

Data	Source
(1) Number of ICPs attached to 11kV/400v transformers	GIS
(2) Transformers connected between isolation points	GIS
(3) Real time data	ADMS SCADA

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Appendix J – Policies and Procedures for Recording SAIDI and SAIFI (Clause 11.5(e)), Continued

ADMS – All Interruptions

ADMS is updated with customer numbers and connectivity from GIS daily. Zone (33kV/11kV) substation connectivity is maintained manually by the SCADA team.

The SCADA tile is updated by either:

- an operation of a device that is linked via SCADA, or
- a manual update which is a switch status updated by the System Control Operator.

The software is updated to reflect the real-time physical state of the network, including energisation of customers.

If the switching operation de-energises customers, ADMS will create an 'incident' and 'SDP interruptions'.¹ The 'incident' has a unique identifier for the interruption and contains operational information, for example, the cause of the interruption. The 'SDP interruptions' are created in ADMS for each supply disruption to each customer affected. It records the start and end times of the interruption and contains a link to the parent 'incident'.

When all customers are restored, the System Control Operator updates the relevant general details on the incident and 'archives' it. This removes the incident from the list of current interruptions in ADMS and allows it to be viewed by other systems at Centralines.

Customer Minutes Lost (CML) is calculated for each incident by adding all the minutes from the 'SDP interruptions' associated with that incident. CML is then divided by the number of connected customers to calculate SAIDI for the incident. This task is performed by a Centralines' database script.

SAIFI is calculated for the incident by dividing the number of customers affected by the number of connected customers (the average customers for the disclosure year).

TOAD™

ADMS does not allow manual editing of SAIDI and SAIFI. If there is an error that results in incorrect SAIDI or SAIFI, they must be calculated manually and entered into TOAD. This is then used for reporting SAIDI and SAIFI.

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¹ SDP – Service Delivery Point, the ADMS equivalent of an ICP.

Appendix J – Policies and Procedures for Recording SAIDI and SAIFI (Clause 11.5(e)), Continued

