

**CENTRALINES**  
LIMITED

# **Default Price Quality Path Annual Compliance Statement**

**For the assessment period ending 31 March 2013**

*Pursuant to*  
**Electricity Distribution Services Default Price-Quality Path  
Determination 2010  
(consolidating all amendments as of 22 March 2013)**

**30 May 2013**

---

**TABLE OF CONTENTS**

<b>1</b>	<b>COMPLIANCE WITH THE PRICE PATH</b>	<b>3</b>
1.1	Compliance with the Price Path (Clause 11.1(a))	3
1.2	Allowable Notional Revenue (Clause 8.4)	3
<b>2</b>	<b>ASSESSMENT WITH THE QUALITY STANDARDS</b>	<b>4</b>
2.1	Compliance with Quality Standards (Clause 11.1(a))	4
2.2	2012 Reliability Assessment (9.1(a))	4
2.3	Prior Period Reliability Assessment (9.1(b))	5
2.4	Compliance Summary	5
<b>3</b>	<b>DISCLAIMER</b>	<b>6</b>
<b>4</b>	<b>CERTIFICATION OF ANNUAL COMPLIANCE STATEMENT</b>	<b>7</b>
<b>5</b>	<b>AUDITOR'S REPORT</b>	<b>8</b>
	<b>APPENDIX A - PRICE PATH COMPLIANCE CALCULATIONS (CLAUSE 11.1 (B) (I))</b>	<b>11</b>
	<b>APPENDIX B - PRICE AND QUANTITY SCHEDULES (CLAUSE 11.1(B)(I))</b>	<b>13</b>
	<b>APPENDIX C - PASS THROUGH COSTS (CLAUSE 11.1(B)(II))</b>	<b>17</b>
	<b>APPENDIX D – QUALITY STANDARD COMPLIANCE CALCULATIONS (CLAUSE 11.1(B)(IV))</b>	<b>18</b>
	<b>APPENDIX E – POLICIES AND PROCEDURES FOR RECORDING SAIDI AND SAIFI (CLAUSE 11.1(B)(V))</b>	<b>22</b>
	<b>CLARIFICATION</b>	<b>24</b>

**1 COMPLIANCE WITH THE PRICE PATH**

**1.1 Compliance with the Price Path (Clause 11.1(a))**

Centralines complies with the price path at the assessment date, 31 March 2013, as specified in the Electricity Distribution Services Default Price-Quality Path Determination 2010 (consolidating all amendments as of 22 March 2013).

**1.2 Allowable Notional Revenue (Clause 8.4)**

The notional revenue (NR<sub>t</sub>) of a Non-exempt EDB at any time during the Assessment Period must not exceed the allowable notional revenue (R<sub>t</sub>) for the Assessment Period.

Compliance is demonstrated in the following tables. The first table demonstrates that notional revenue derived using posted price at the end of the Assessment Period is less than the allowable notional revenue. The second table demonstrates that the maximum notional revenue during the Assessment Period does not exceed the allowable notional revenue illustrating that at no time during the Assessment Period is the price path breached.

Test:	$\frac{NR_{2013}}{R_{2013}} \leq 1$	
NR <sub>2013</sub> :	\$	7,882,571
R <sub>2013</sub> :	\$	7,961,402
Result:	0.9901 < 1	
Result:	Price Path has not been breached	

Test:	$\frac{NR_{Max}}{R_{2013}} \leq 1$	
NR <sub>Max</sub> :	\$	7,882,571
R <sub>2013</sub> :	\$	7,961,402
Result:	0.9901 < 1	
Result:	Price Path has not been breached	

Supporting evidence is provided in Appendices A, B and C.

**2 ASSESSMENT WITH THE QUALITY STANDARDS**

**2.1 Compliance with Quality Standards (Clause 11.1(a))**

Centralines complies with all requirements of the quality standards at the assessment date 31 March 2013, as specified in the Electricity Distribution Services Default Price-Quality Path Determination 2010 (consolidating all amendments as of 22 March 2012).

**2.2 2012 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 compliance with the SAIFI limit.

Test:	$\frac{SAIDI_{Assess\ 2013}}{SAIDI_{Limit}} \leq 1$	
SAIDI <sub>Assess 2012</sub>		123.848
SAIDI <sub>Limit</sub>		197.549
Result:		0.6269 < 1
Result:	<i>Does not Exceed Limit</i>	

Test:	$\frac{SAIFI_{Assess\ 2013}}{SAIFI_{Limit}} \leq 1$	
SAIFI <sub>Assess 2013</sub>		2.696
SAIFI <sub>Limit</sub>		4.526
Result:		0.5957 < 1
Result:	<i>Does not Exceed Limit</i>	

**2.3 Prior Period Reliability Assessment (9.1(b))**

Clause 9.1.(b) requires: compliance with annual reliability assessments for the two immediately preceding extant Assessment Periods.

SAIDI <sub>Assess 20</sub>	156.7515	SAIFI <sub>Assess</sub>	3.6363
SAIDI <sub>Limit</sub>	197.5487	SAIFI <sub>Limit</sub>	4.5260
0.7935	< 1	0.8034	< 1
	<i>Does not Exceed Limit</i>		<i>Does not Exceed Limit</i>

**2.4 Compliance Summary**

Clause 9.1 A Non-exempt EDB must, in respect of each Assessment Period, either:

- (a) comply with the annual reliability assessment specified in clause 9.2; or
- (b) have complied with those annual reliability assessments for the two immediately preceding extant 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>
<b>Clause 9.1 Result:</b>	<b><i>Complies with Quality Standard</i></b>		

---

### **3 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 2010 (consolidating all amendments as of 22 March 2013). This statement has not been prepared for any other purpose and Centralines Limited expressly disclaims any liability to any other party who may rely on this statement for any other purpose.

---

**4 CERTIFICATION OF ANNUAL COMPLIANCE STATEMENT**

We, Sam Robinson and Jon Nichols, 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 2010 are true and accurate.



Sam Robinson  
DIRECTOR



Jon Nichols  
DIRECTOR

## 5 AUDITOR'S REPORT

AUDIT NEW ZEALAND  
Mana Arotake Aotearoa

### Independent Auditor's Report

#### To the readers of the annual compliance statement of Centralines Limited for the assessment period ended on 31 March 2013

The Auditor-General is the auditor of Centralines Limited (the company). The Auditor-General has appointed me, Mark Maloney, using the staff and resources of Audit New Zealand, to provide an opinion, on her behalf. We have audited the attached statement, which is an Annual Compliance Statement in respect of the default price-quality path prepared by the company for the Assessment Period ended on 31 March 2013 and dated 24 May 2013 for the purposes of clause 11 of the *Electricity Distribution Services Default Price-Quality Path Determination 2010* ("the Determination").

In relation to the price path set out in clause 8 of the Determination, our audit included examination, on a test basis, of evidence relevant to the amounts and disclosures contained in section 1 on page 3 and appendices A to C on pages 11 to 17 of the Annual Compliance Statement.

In relation to the SAIDI and SAIFI statistics for the Reference Period and the Assessment Period ended on 31 March 2013, including the calculation of the Reliability Limits and the Assessed Values, which are relevant to the quality standards set out in clause 9 of the Determination, our audit included examination, on a test basis, of evidence relevant to the amounts and disclosures contained in section 2 on pages 4 to 5 and appendices D to E on pages 18 to 23 of the Annual Compliance Statement.

Our audit also included assessment of the significant estimates and judgments, if any, made by the company in the preparation of the Annual Compliance Statement and assessment of whether the basis of preparation has been adequately disclosed.

#### Directors' Responsibilities

The Directors of the company are responsible for the preparation of the Annual Compliance Statement in accordance with the Determination 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, whether due to fraud or error.

#### Auditor's Responsibilities

Our responsibility is to express an opinion on the Annual Compliance Statement based on our audit. We conducted our audit in accordance with the External Reporting Board Standard on Assurance Engagements 3100: *Compliance Engagements*. This standard requires that we comply with ethical and quality control requirements and plan and perform the audit to obtain reasonable assurance about whether the Annual Compliance Statement has been prepared in accordance with the Determination and is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the Annual Compliance Statement. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the Annual Compliance Statement, whether due to fraud or error. In making those risk assessments,



the auditor considers internal control relevant to the entity's preparation of the Annual Compliance Statement in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Where relevant, an audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates, as well as evaluating the overall presentation of the Annual Compliance Statement.

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

### **Limitations and Use of this Independent Auditor's Report**

This independent auditor's report has been prepared solely for the Directors of Centralines Limited and the Commissioners of the New Zealand Commerce Commission in accordance with the Determination. We disclaim any assumption of responsibility for any reliance on this report to any persons or users other than the Directors of Centralines Limited and the Commissioners, or for any purpose other than that for which it was prepared.

Because of the inherent limitations in evidence gathering procedures, it is possible that fraud, error or non-compliance may occur and not be detected. As the procedures performed for this engagement are not performed continuously throughout the assessment period and the procedures performed in respect of the company's compliance with the Determination are undertaken on a test basis, our engagement cannot be relied on to detect all instances where the company may not have complied with the Determination. Also, we did not evaluate the security and controls over the electronic publication of the Disclosure Information.

Our opinion has been formed on the above basis.

### **Independence**

We have complied with the independence requirements in clause 4.1 of the Determination.

In addition to this engagement, we have carried out other engagements for the company:

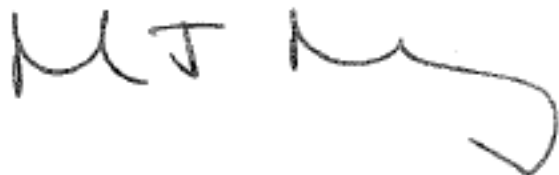
- the audit of the company's annual financial statements;
- an assurance engagement with respect to the company's compliance with respect to the issuing of certificates pursuant to the Electricity Distribution (Information Disclosure) Requirements 2008 (distribution requirements); and the Electricity Information Disclosure Requirements consolidating all amendments to 31 October 2008 (original requirements), for the regulatory period ending 31 March 2012; and
- an assurance engagement with respect to the company's compliance with the Schedule B of the MS Excel workbook 'Commerce Commission, Information request workbook for electricity distribution default price-quality path, 22 June 2012' (request workbook) prepared by the Company in accordance with the Commerce Commission's requirements issued by notice in writing to the company under section 53ZD of the Commerce Act 1986 on 22 June 2012.

Other than these engagements carried out on behalf of the Auditor-General, we have no relationship with or interests in the company.

## **Opinion**

In our opinion, the Annual Compliance Statement of Centralines Limited for the Assessment Period ended on 31 March 2013, has been prepared, in all material respects, in accordance with the Determination.

Our audit was completed on 28 May 2013 and our opinion is expressed as at that date.



Mark Maloney  
Audit New Zealand  
On behalf of the Auditor-General  
Palmerston North, New Zealand

**APPENDIX A - PRICE PATH COMPLIANCE CALCULATIONS (Clause 11.1 (b) (i))**

**Clause 8.4**

Notional Revenue for the year ending March 2013		
Term	Description	Value \$
$P_{2013} * Q_{2011}$	Prices at 31 March 2013 multiplied by 31 March 2011 Base Quantities	10,576,566
$K_{2013}$	Transmission Charges for year ending 31 March 2013	2,629,102
	Avoided Transmission Charges for year ending 31 March 2013	-
	Rates for year ending 31 March 2013	21,447
	Electricity Authority Levies for year ending 31 March 2013	20,408
	Commerce Act Levies for year ending 31 March 2013 + 1/5 of Commerce Act Levies for year ending 31 March 2010	23,038
$NR_{2013}$	Notional Revenue for the year ending 31 March 2013	7,882,571

Supported by P\*Q schedules presented in Appendix B

Maximum Notional Revenue for the year ending March 2013		
Term	Description	Value \$
$P_{Max} * Q_{2011}$	Maximum Prices between 1 April 2012 and 31 March 2013 multiplied by 31 March 2011 Base Quantities	10,576,566
$K_{2013}$	Transmission Charges for year ending 31 March 2013	2,629,102
	Avoided Transmission Charges for year ending 31 March 2013	-
	Rates for year ending 31 March 2013	21,447
	Electricity Authority Levies for year ending 31 March 2013	20,408
	Commerce Act Levies for year ending 31 March 2013 + 1/5 of Commerce Act Levies for year ending 31 March 2010	23,038
$NR_{Max}$	Notional Revenue for the year ending 31 March 2013	7,882,571

Supported by P\*Q schedules presented in Appendix B

**Clause 8.5**

Allowable Notional Revenue 2013		
Term	Description	Value \$
$P_{2012} * Q_{2011}$	Prices at 31 March 2012 multiplied by 31 March 2011 Base Quantities	9,954,933
$K_{2012}$	Transmission Charges for year ending 31 March 2012	2,313,214
	Avoided Transmission Charges for 2012	-
	Rates for year ending 31 March 2012	19,770
	Electricity Authority Levies for year ending 31 March 2012	17,781
	Commerce Act Levies for year ending 31 March 2012 + 1/5 of Commerce Act Levies for year ending 31 March 2010	23,738
<i>Under Recovery</i>	Under recovery relative to allowable revenue in year to 31 March 2012	31,515
$X$	X Factor	-
$(1 + \Delta CPI_{2013})$	Average change in Consumer Price Index	104.59%
$R_{2013}$	Allowable Notional Revenue under the CPI-X Price Path for the year ending 31 March 2013	7,961,402

Supported by P\*Q schedules presented in Appendix B

$\Delta CPI_{2013}$			
Numerator		Denominator	
$CPI_{Dec2010}$	1137	$CPI_{Dec2009}$	1093
$CPI_{Mar2011}$	1146	$CPI_{Mar2010}$	1097
$CPI_{Jun2011}$	1157	$CPI_{Jun2010}$	1099
$CPI_{Sep2011}$	1162	$CPI_{Sep2010}$	1111
Total	4602	Total	4400
$\Delta CPI_{2013}$	4.59%		

**APPENDIX B - PRICE AND QUANTITY SCHEDULES (Clause 11.1(b)(i))**

Tariff code	Units	2010-11 Qty	2011-12 Tariff Code	2011-12 Price	2012-13 Price	2011-12 Revenue	2012-13 Revenue
E-C-CH10-DMND	\$/kW/month	3238.04	E-C-CH10-DMND	\$1.4000	\$1.4945	\$4,533.26	\$4,839.25
E-C-CH10-SOPD	\$/kW/month	3191.6	E-C-CH10-SOPD	\$3.0000	\$3.1727	\$9,574.80	\$10,125.99
E-C-CH10-TAIC	\$/kWh	1043461	E-C-CH10-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH10-WOPD	\$/kW/month	4344.08	E-C-CH10-WOPD	\$3.0000	\$3.1727	\$13,032.24	\$13,782.46
E-C-CH11-DMND	\$/kW/month	15466.24	E-C-CH11-DMND	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH11-SOPD	\$/kW/month	15027.74	E-C-CH11-SOPD	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH11-TAIC	\$/kWh	6930881	E-C-CH11-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH11-WOPD	\$/kW/month	12247.14	E-C-CH11-WOPD	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH1-24UC	\$/kWh	2303338	E-C-CH1-24UC	\$0.1370	\$0.1397	\$315,557.31	\$321,776.32
E-C-CH12-DMND	\$/kW/month	50504.4	E-C-CH12-DMND	\$1.3000	\$1.3598	\$65,655.72	\$68,675.88
E-C-CH12-SOPD	\$/kW/month	49582.8	E-C-CH12-SOPD	\$3.0000	\$3.1727	\$148,748.40	\$157,311.35
E-C-CH12-TAIC	\$/kWh	23144749	E-C-CH12-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH12-WOPD	\$/kW/month	45578.8	E-C-CH12-WOPD	\$3.0000	\$3.1727	\$136,736.40	\$144,607.86
E-C-CH1-AICO	\$/kWh	6372867	E-C-CH1-AICO	\$0.1150	\$0.1173	\$732,879.71	\$747,537.30
E-C-CH1-CTRL	\$/kWh	235793	E-C-CH1-CTRL	\$0.0820	\$0.0838	\$19,335.03	\$19,759.45
E-C-CH1-CTUD	\$/kWh	221685	E-C-CH1-CTUD	\$0.1430	\$0.1573	\$31,700.96	\$34,871.05
E-C-CH1-CTUN	\$/kWh	95696	E-C-CH1-CTUN	\$0.0490	\$0.0698	\$4,689.10	\$6,679.58
E-C-CH1-NITE	\$/kWh	357	E-C-CH1-NITE	\$0.0490	\$0.0698	\$17.49	\$24.92
E-C-CH1-PROJ	\$/kWh	-59835	E-C-CH1-PROJ	\$0.1370	\$0.1397	-\$8,197.40	-\$8,358.95
E-C-CH2-24UC	\$/kWh	27410490	E-C-CH2-24UC	\$0.0900	\$0.0979	\$2,466,944.10	\$2,683,486.97
E-C-CH2-AICO	\$/kWh	18771529	E-C-CH2-AICO	\$0.0760	\$0.0757	\$1,426,636.20	\$1,421,004.75
E-C-CH2-CTRL	\$/kWh	1631300	E-C-CH2-CTRL	\$0.0550	\$0.0418	\$89,721.50	\$68,188.34
E-C-CH2-CTUD	\$/kWh	4111376	E-C-CH2-CTUD	\$0.0940	\$0.1156	\$386,469.34	\$475,275.07
E-C-CH2-CTUN	\$/kWh	2563855	E-C-CH2-CTUN	\$0.0340	\$0.0277	\$87,171.07	\$71,018.78
E-C-CH2-NITE	\$/kWh	42565	E-C-CH2-NITE	\$0.0340	\$0.0277	\$1,447.21	\$1,179.05
E-C-CH2-PROJ	\$/kWh	-613741	E-C-CH2-PROJ	\$0.0900	\$0.0979	-\$55,236.69	-\$60,085.24
E-C-CH2-TAIC	\$/kWh	94343	E-C-CH2-TAIC	\$0.0900	\$0.0979	\$8,490.87	\$9,236.18
E-C-CH3-24UC	\$/kWh	1021264	E-C-CH3-24UC	\$0.0760	\$0.0811	\$77,616.06	\$82,824.51
E-C-CH3-CTUD	\$/kWh	1837139	E-C-CH3-CTUD	\$0.0790	\$0.0869	\$145,133.98	\$159,647.38
E-C-CH3-CTUN	\$/kWh	750625	E-C-CH3-CTUN	\$0.0290	\$0.0310	\$21,768.13	\$23,269.38
E-C-CH3-DMND	\$/kW/month	2784.86	E-C-CH3-DMND	\$5.0000	\$5.0985	\$13,924.30	\$14,198.61
E-C-CH3-SOPD	\$/kW/month	2682.72	E-C-CH3-SOPD	\$8.5000	\$9.3587	\$22,803.12	\$25,106.77
E-C-CH3-TAIC	\$/kWh	657293	E-C-CH3-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH3-WOPD	\$/kW/month	2493.6	E-C-CH3-WOPD	\$8.5000	\$9.3587	\$21,195.60	\$23,336.85
E-C-CH4-24UC	\$/kWh	305107	E-C-CH4-24UC	\$0.0560	\$0.0532	\$17,085.99	\$16,231.69
E-C-CH4-CTUD	\$/kWh	84436	E-C-CH4-CTUD	\$0.0710	\$0.0683	\$5,994.96	\$5,766.98
E-C-CH4-CTUN	\$/kWh	16082	E-C-CH4-CTUN	\$0.0090	\$0.0180	\$144.74	\$289.48
E-C-CH4-DMND	\$/kW/month	3597.88	E-C-CH4-DMND	\$3.5000	\$3.5689	\$12,592.58	\$12,840.47
E-C-CH4-SOPD	\$/kW/month	3410.64	E-C-CH4-SOPD	\$7.5000	\$8.2356	\$25,579.80	\$28,088.67
E-C-CH4-TAIC	\$/kWh	1081282	E-C-CH4-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00

# Centralines Annual Compliance Statement 2012-13



E-C-CH4-WOPD	\$/kW/month	2969.2	E-C-CH4-WOPD	\$7.5000	\$8.2356	\$22,269.00	\$24,453.14
E-C-CH5-24UC	\$/kWh	98560	E-C-CH5-24UC	\$0.0460	\$0.0477	\$4,533.76	\$4,701.31
E-C-CH5-CTUD	\$/kWh	186891	E-C-CH5-CTUD	\$0.0590	\$0.0617	\$11,026.57	\$11,531.17
E-C-CH5-CTUN	\$/kWh	101226	E-C-CH5-CTUN	\$0.0070	\$0.0150	\$708.58	\$1,518.39
E-C-CH5-DMND	\$/kW/month	4067.14	E-C-CH5-DMND	\$3.3000	\$3.5689	\$13,421.56	\$14,515.22
E-C-CH5-SOPD	\$/kW/month	3821.88	E-C-CH5-SOPD	\$6.5000	\$7.2473	\$24,842.22	\$27,698.31
E-C-CH5-TAIC	\$/kWh	794278	E-C-CH5-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH5-WOPD	\$/kW/month	3296.74	E-C-CH5-WOPD	\$6.5000	\$7.2473	\$21,428.81	\$23,892.46
E-C-CH6-CTUD	\$/kWh	269000	E-C-CH6-CTUD	\$0.0560	\$0.0540	\$15,064.00	\$14,526.00
E-C-CH6-CTUN	\$/kWh	90900	E-C-CH6-CTUN	\$0.0070	\$0.0140	\$636.30	\$1,272.60
E-C-CH6-DMND	\$/kW/month	2946.18	E-C-CH6-DMND	\$3.0000	\$3.5689	\$8,838.54	\$10,514.62
E-C-CH6-SOPD	\$/kW/month	2865.94	E-C-CH6-SOPD	\$7.5000	\$6.3777	\$21,494.55	\$18,278.11
E-C-CH6-TAIC	\$/kWh	1083793	E-C-CH6-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH6-WOPD	\$/kW/month	2436.1	E-C-CH6-WOPD	\$7.5000	\$6.3777	\$18,270.75	\$15,536.71
E-C-CH7-DMND	\$/kW/month	2464.1	E-C-CH7-DMND	\$3.5000	\$2.8551	\$8,624.35	\$7,035.25
E-C-CH7-SOPD	\$/kW/month	1730.02	E-C-CH7-SOPD	\$5.0000	\$5.6123	\$8,650.10	\$9,709.39
E-C-CH7-TAIC	\$/kWh	908925	E-C-CH7-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH7-WOPD	\$/kW/month	1598.14	E-C-CH7-WOPD	\$5.0000	\$5.6123	\$7,990.70	\$8,969.24
E-C-CH8-DMND	\$/kW/month	2625.58	E-C-CH8-DMND	\$3.5000	\$2.8551	\$9,189.53	\$7,496.29
E-C-CH8-SOPD	\$/kW/month	2611.08	E-C-CH8-SOPD	\$5.0000	\$4.9389	\$13,055.40	\$12,895.86
E-C-CH8-TAIC	\$/kWh	1016677	E-C-CH8-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH8-WOPD	\$/kW/month	2471.32	E-C-CH8-WOPD	\$5.0000	\$4.9389	\$12,356.60	\$12,205.60
E-C-CH9-DMND	\$/kW/month	2955.78	E-C-CH9-DMND	\$3.5000	\$2.8551	\$10,345.23	\$8,439.05
E-C-CH9-SOPD	\$/kW/month	2501.06	E-C-CH9-SOPD	\$4.0000	\$4.3462	\$10,004.24	\$10,870.11
E-C-CH9-TAIC	\$/kWh	1494749	E-C-CH9-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH9-WOPD	\$/kW/month	2714.98	E-C-CH9-WOPD	\$4.0000	\$4.3462	\$10,859.92	\$11,799.85
E-CH9-TAIC	\$/kWh	6300	E-CH9-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-PRE	\$/kWh	2900392	E-C-PRE	\$0.0760	\$0.0757	\$220,429.79	\$219,559.67
E-C-T1P-24UC	\$/kWh	24317	E-C-T1P-24UC	\$0.1100	\$0.1077	\$2,674.87	\$2,618.94
E-C-T1P-PROJ	\$/kWh	-5775	E-C-T1P-PROJ	\$0.1100	\$0.1077	-\$635.25	-\$621.97
F-C-CH1	\$/day	652331	F-C-CH1	\$0.1500	\$0.1500	\$97,849.65	\$97,849.65
F-C-CH10	\$/day	365	F-C-CH10	\$93.0000	\$98.2810	\$33,945.00	\$35,872.57
F-C-CH11	\$/day	365	F-C-CH11	\$446.1200	\$446.1200	\$162,833.80	\$162,833.80
F-C-CH12	\$/day	365	F-C-CH12	\$1,287.6200	\$1,374.5761	\$469,981.30	\$501,720.28
F-C-CH2	\$/day	2235942	F-C-CH2	\$1.0000	\$1.0677	\$2,235,942.00	\$2,387,315.27
F-C-CH3	\$/day	10636	F-C-CH3	\$14.0000	\$14.5018	\$148,904.00	\$154,241.14
F-C-CH4	\$/day	2555	F-C-CH4	\$27.0000	\$29.8148	\$68,985.00	\$76,176.81
F-C-CH5	\$/day	1460	F-C-CH5	\$33.0000	\$34.3583	\$48,180.00	\$50,163.12
F-C-CH6	\$/day	1095	F-C-CH6	\$50.0000	\$57.1906	\$54,750.00	\$62,623.71
F-C-CH7	\$/day	730	F-C-CH7	\$56.0000	\$61.1118	\$40,880.00	\$44,611.61
F-C-CH8	\$/day	603	F-C-CH8	\$74.0000	\$85.7902	\$44,622.00	\$51,731.49
F-C-CH9	\$/day	571	F-C-CH9	\$82.9500	\$92.6725	\$47,364.45	\$52,916.00
F-CH2	\$/day	0	F-CH2	\$1.0000	\$1.0677	\$0.00	\$0.00

# Centralines Annual Compliance Statement 2012-13



F-CH9	\$/day	0	F-CH9	\$82.9500	\$92.6725	\$0.00	\$0.00
F-C-T1P	\$/day	3789	F-C-T1P	\$1.0000	\$1.0000	\$3,789.00	\$3,789.00
Under Verandah lights	\$/month	12	Under Verandah lights	\$840.0000	\$840.0000	\$10,080.00	\$10,080.00
E-C-CH10-SOPD	\$/kW/month	-1300.02	E-C-CH10-SOPD	\$3.0000	\$3.1727	-\$3,900.06	-\$4,124.57
E-C-CH11-SOPD	\$/kW/month	-5060.34	E-C-CH11-SOPD	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH12-SOPD	\$/kW/month	-20054.4	E-C-CH12-SOPD	\$3.0000	\$3.1727	-\$60,163.20	-\$63,626.59
E-C-CH3-SOPD	\$/kW/month	-1296.06	E-C-CH3-SOPD	\$8.5000	\$9.3587	-\$11,016.51	-\$12,129.44
E-C-CH4-SOPD	\$/kW/month	-1122.84	E-C-CH4-SOPD	\$7.5000	\$8.2356	-\$8,421.30	-\$9,247.26
E-C-CH5-SOPD	\$/kW/month	-855.46	E-C-CH5-SOPD	\$6.5000	\$7.2473	-\$5,560.49	-\$6,199.78
E-C-CH6-SOPD	\$/kW/month	-1181.26	E-C-CH6-SOPD	\$7.5000	\$6.3777	-\$8,859.45	-\$7,533.72
E-C-CH7-SOPD	\$/kW/month	-777.92	E-C-CH7-SOPD	\$5.0000	\$5.6123	-\$3,889.60	-\$4,365.92
E-C-CH8-SOPD	\$/kW/month	-1286.54	E-C-CH8-SOPD	\$5.0000	\$4.9389	-\$6,432.70	-\$6,354.09
E-C-CH9-SOPD	\$/kW/month	247.62	E-C-CH9-SOPD	\$4.0000	\$4.3462	\$990.48	\$1,076.21
E-C-CH10-WOPD	\$/kW/month	-3044.06	E-C-CH10-WOPD	\$3.0000	\$3.1727	-\$9,132.18	-\$9,657.89
E-C-CH11-WOPD	\$/kW/month	-7186.8	E-C-CH11-WOPD	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH12-WOPD	\$/kW/month	-25524.4	E-C-CH12-WOPD	\$3.0000	\$3.1727	-\$76,573.20	-\$80,981.26
E-C-CH3-WOPD	\$/kW/month	-1197.54	E-C-CH3-WOPD	\$8.5000	\$9.3587	-\$10,179.09	-\$11,207.42
E-C-CH4-WOPD	\$/kW/month	-1846.36	E-C-CH4-WOPD	\$7.5000	\$8.2356	-\$13,847.70	-\$15,205.88
E-C-CH5-WOPD	\$/kW/month	-2117.42	E-C-CH5-WOPD	\$6.5000	\$7.2473	-\$13,763.23	-\$15,345.58
E-C-CH6-WOPD	\$/kW/month	-1254.84	E-C-CH6-WOPD	\$7.5000	\$6.3777	-\$9,411.30	-\$8,002.99
E-C-CH7-WOPD	\$/kW/month	-820.22	E-C-CH7-WOPD	\$5.0000	\$5.6123	-\$4,101.10	-\$4,603.32
E-C-CH8-WOPD	\$/kW/month	-1184.78	E-C-CH8-WOPD	\$5.0000	\$4.9389	-\$5,923.90	-\$5,851.51
E-C-CH9-WOPD	\$/kW/month	-1994.92	E-C-CH9-WOPD	\$4.0000	\$4.3462	-\$7,979.68	-\$8,670.32
Under Verandah lights	\$/month	-12	Under Verandah lights	\$840.0000	\$840.0000	-\$10,080.00	-\$10,080.00
F-C-U02	\$/day	306600	F-C-U02	\$0.0330	\$0.0363	\$10,117.80	\$11,129.58
E-C-CH2-PROJ	\$/kWh	-6386	E-C-CH2-PROJ	\$0.0900	\$0.0979	-\$574.74	-\$625.19
E-C-CH2-24UC	\$/kWh	-341937	E-C-CH2-24UC	\$0.0900	\$0.0979	-\$30,774.33	-\$33,475.63
E-C-CH2-24UC	\$/kWh	-2092	E-C-CH2-24UC	\$0.0900	\$0.0979	-\$188.28	-\$204.81
E-C-CH2-24UC	\$/kWh	-21400	E-C-CH2-24UC	\$0.0900	\$0.0979	-\$1,926.00	-\$2,095.06
F-C-CH2	\$/day	-365	F-C-CH2	\$1.0000	\$1.0677	-\$365.00	-\$389.71
E-C-CH2-PROJ	\$/kWh	-36432	E-C-CH2-PROJ	\$0.0900	\$0.0979	-\$3,278.88	-\$3,566.69
F-C-CH2	\$/day	-13870	F-C-CH2	\$1.0000	\$1.0677	-\$13,870.00	-\$14,809.00
E-C-U01-1	\$/kWh	13821.528	E-C-U01-1	\$0.0900	\$0.0990	\$1,243.94	\$1,368.33
E-C-U02-1	\$/kWh	376797	E-C-U02-1	\$0.0900	\$0.0990	\$33,911.73	\$37,302.90
E-C-U02-4	\$/kWh	6453.19	E-C-U02-4	\$0.0900	\$0.0990	\$580.79	\$638.87
E-C-U02-3	\$/kWh	16804.28	E-C-U02-3	\$0.0900	\$0.0990	\$1,512.39	\$1,663.62
E-C-U02-2	\$/kWh	29017.7	E-C-U02-2	\$0.0900	\$0.0990	\$2,611.59	\$2,872.75
E-C-U01-unmt	\$/kWh	90951	E-C-U01-unmt	\$0.0900	\$0.0990	\$8,185.59	\$9,004.15
E-C-CH3-KVAR	\$/kVAr/month	258.87	E-C-CH3-KVAR	\$7.0000	\$7.2000	\$1,812.07	\$1,863.84
E-C-CH4-KVAR	\$/kVAr/month	595.25	E-C-CH4-KVAR	\$7.0000	\$7.2000	\$4,166.77	\$4,285.82
E-C-CH5-KVAR	\$/kVAr/month	1,921.21	E-C-CH5-KVAR	\$7.0000	\$7.2000	\$13,448.45	\$13,832.69
E-C-CH6-KVAR	\$/kVAr/month	375.84	E-C-CH6-KVAR	\$7.0000	\$7.2000	\$2,630.88	\$2,706.05
E-C-CH7-KVAR	\$/kVAr/month	509.27	E-C-CH7-KVAR	\$0.0000	\$7.2000	\$0.00	\$3,666.77



# Centralines Annual Compliance Statement 2012-13



E-C-CH8-KVAR	\$/kVar/month	420.90	E-C-CH8-KVAR	\$0.0000	\$7.2000	\$0.00	\$3,030.48
E-C-CH9-KVAR	\$/kVar/month	199.92	E-C-CH9-KVAR	\$0.0000	\$7.2000	\$0.00	\$1,439.42
E-C-CH10-KVAR	\$/kVar/month	1,525.07	E-C-CH10-KVAR	\$0.0000	\$7.2000	\$0.00	\$10,980.53
E-C-CH11-KVAR	\$/kVar/month	345.72	E-C-CH11-KVAR	\$0.0000	\$7.2000	\$0.00	\$2,489.18
E-C-CH12-KVAR	\$/kVar/month	13,911.14	E-C-CH12-KVAR	\$0.0000	\$3.6000	\$0.00	\$50,080.10
E-C-CH13-KVAR	\$/kVar/month	550.41	E-C-CH13-KVAR	\$0.0000	\$7.2000	\$0.00	\$3,962.98
E-C-CH7-DEFT	\$/kWh	0	E-C-CH7-DEFT	\$0.0000	\$0.0504	\$0.00	\$0.00
E-C-CH8-DEFT	\$/kWh	0	E-C-CH8-DEFT	\$0.0000	\$0.0504	\$0.00	\$0.00
E-C-CH9-DEFT	\$/kWh	0	E-C-CH9-DEFT	\$0.0000	\$0.0504	\$0.00	\$0.00
E-C-CH10-DEFT	\$/kWh	0	E-C-CH10-DEFT	\$0.0000	\$0.0504	\$0.00	\$0.00
E-C-CH11-DEFT	\$/kWh	0	E-C-CH11-DEFT	\$0.0000	\$0.0504	\$0.00	\$0.00
E-C-CH12-DEFT	\$/kWh	0	E-C-CH12-DEFT	\$0.0000	\$0.0504	\$0.00	\$0.00
E-C-CH13-DEFT	\$/kWh	0	E-C-CH13-DEFT	\$0.0000	\$0.0504	\$0.00	\$0.00
E-C-CH9-DMND	\$/kW/month	-1082	E-C-CH9-DMND	\$3.5000	\$2.8551	-\$3,787.00	-\$3,089.22
E-C-CH9-SOPD	\$/kW/month	-674.94	E-C-CH9-SOPD	\$4.0000	\$4.3462	-\$2,699.76	-\$2,933.42
E-C-CH9-TAIC	\$/kWh	-474024	E-C-CH9-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH9-WOPD	\$/kW/month	-1058.94	E-C-CH9-WOPD	\$4.0000	\$4.3462	-\$4,235.76	-\$4,602.37
F-C-CH9	\$/day	-206	F-C-CH9	\$82.9500	\$92.6725	-\$17,087.70	-\$19,090.54
E-C-CH13-DMND	\$/kW/month	1082	E-C-CH9-DMND	\$3.5000	\$1.4945	\$3,787.00	\$1,617.05
E-C-CH13-SOPD	\$/kW/month	674.94	E-C-CH9-SOPD	\$4.0000	\$3.1727	\$2,699.76	\$2,141.38
E-C-CH13-TAIC	\$/kWh	474024	E-C-CH9-TAIC	\$0.0000	\$0.0000	\$0.00	\$0.00
E-C-CH13-WOPD	\$/kW/month	1058.94	E-C-CH9-WOPD	\$4.0000	\$3.1727	\$4,235.76	\$3,359.70
F-C-CH13	\$/day	206	F-C-CH9	\$82.9500	\$98.2810	\$17,087.70	\$20,245.89
<b>2011-12 revenue</b>							\$9,954,932.75
<b>2012-13 revenue</b>							\$10,576,566.05



**APPENDIX C - PASS THROUGH COSTS (Clause 11.1(b)(ii))**

Pass Through Costs for year ending March 2013				
K <sub>2013</sub>	Actual (\$)	Forecast (\$)	Variance (\$)	Variance (%)
Transmission	2,629,102	2,629,102	(0)	(.)%
Avoided Transmission	-		-	-
Rates	21,447	20,220	1,227	5.72%
Electricity Authority Levies	20,408	20,629	(221)	(1.08)%
Commerce Act Levies	23,038	21,368	1,670	7.25%
<b>Total Pass Through Costs</b>	<b>2,693,995</b>	<b>2,691,319</b>	<b>2,677</b>	<b>.1%</b>

Explanations for variances:

- Transmission – No Variance
- Avoided Transmission - Centralines does not pay any avoided transmission costs.
- Rates - The rates to be paid were not known at the time of setting tariffs so were estimated based on a 2% increase. The actual increase was marginally higher.
- EA Levies – Electricity Authority levies were not known at the time of setting tariffs so were estimated based on the previous year.
- Commerce Act levies variance – Commerce Act levies were not known at the time of setting tariffs so were estimated based on the previous year.

**APPENDIX D – QUALITY STANDARD COMPLIANCE CALCULATIONS  
(Clause 11.1(b)(iv))**

**Reliability Data (Before Normalisation)**

Year	SAIDI (Interruption Duration)			SAIFI (Interruption Frequency)		
	Class B	Class C	Total	Class B	Class C	Total
<b>2005</b>	15.60	155.79	171.39	0.07	3.38	3.45
<b>2006</b>	41.19	99.54	140.73	0.14	3.76	3.90
<b>2007</b>	38.97	148.08	187.05	0.12	3.06	3.18
<b>2008</b>	49.57	105.64	155.21	0.15	2.50	2.65
<b>2009</b>	66.24	132.52	198.76	0.26	4.69	4.95
	Reference Period Total SAIDI		<b>853.14</b>	Reference Period Total SAIFI		<b>18.13</b>
	Reference Period Average SAIDI		<b>170.63</b>	Reference Period Average SAIFI		<b>3.63</b>
<b>2013</b>	82.59	41.25	123.85	0.39	2.30	2.70

**Reliability Limit Calculations**

**SAIDI Boundary Calculations**

$\alpha_{SAIDI}$	-1.0592	The average of the natural logarithm (ln) of each daily SAIDI Value in the non-zero data set
$\beta_{SAIDI}$	1.6883	The standard deviation of the natural logarithm (ln) of each daily SAIDI Value in the non-zero data set

$B_{SAIDI} = e^{(\alpha_{SAIDI} + 2.5 * \beta_{SAIDI})}$	23.6089	SAIDI Boundary Value
--	---------	----------------------

**SAIFI Boundary Calculations**

$\alpha_{SAIFI}$	-5.3931	The average of the natural logarithm (ln) of each daily SAIFI Value in the non-zero data set
$\beta_{SAIFI}$	1.8502	The standard deviation of the natural logarithm (ln) of each daily SAIFI Value in the non-zero data set

$B_{SAIFI} = e^{(\alpha_{SAIFI} + 2.5 * \beta_{SAIFI})}$	0.4641	SAIFI Boundary Value
--	--------	----------------------

**Event Days exceeding SAIDI Boundary Value within the Reference Dataset**

Date	Pre-Normalised SAIDI	Pre-Normalised SAIFI	Normalised SAIDI	Normalised SAIFI
30-Jun-04	42.3883	0.6694	23.6089	0.4641
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-

**SAIDI Limit**

$\mu_{SAIDI}$	166.8715	The average annual SAIDI Value in the Normalised Reference Dataset
$\sigma_{SAIDI}$	30.6772	The standard deviation of daily SAIDI Values in the Normalised Reference Dataset multiplied by
$SAIDI_{Limit} = \mu_{SAIDI} + \sigma_{SAIDI}$	197.5487	SAIDI Limit Value

**SAIFI Limit**

$\mu_{SAIFI}$	3.5838	The average annual SAIFI Value in the Normalised Reference Dataset
$\sigma_{SAIFI}$	0.9422	The standard deviation of daily SAIFI Values in the Normalised Reference Dataset multiplied by
$SAIFI_{Limit} = \mu_{SAIFI} + \sigma_{SAIFI}$	4.5260	SAIFI Limit Value

**Reliability Assessment Calculations**

**Event Days exceeding SAIDI Boundary Value within the Assessment Dataset**

Date	Pre-Normalised SAIDI	Pre-Normalised SAIFI	Normalised SAIDI	Normalised SAIFI
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-
			-	-

**Assessed SAIDI Value**

SAIDI <sub>2013</sub>	123.8484	The sum of daily SAIDI Values in the 1 April 2012 - 31 March 2013 Normalised Assessment Dataset
-----------------------	----------	---

**Assessed SAIFI Value**

SAIFI <sub>2013</sub>	2.6962	The sum of daily SAIFI Values in the 1 April 2012 - 31 March 2013 Normalised Assessment Dataset
-----------------------	--------	---

**Prior Period Assessed Values**

**Assessed SAIDI Value 2012**

SAIDI <sub>2012</sub>	156.7515	The sum of daily SAIDI Values in the 1 April 2011 - 31 March 2012 Normalised Assessment Dataset
-----------------------	----------	---

**Assessed SAIFI Value 2012**

SAIFI <sub>2012</sub>	3.6363	The sum of daily SAIFI Values in the 1 April 2011 - 31 March 2012 Normalised Assessment Dataset
-----------------------	--------	---

**APPENDIX E – POLICIES AND PROCEDURES FOR RECORDING SAIDI AND SAIFI  
(Clause 11.1(b)(v))**

**Outage Data Capture Process**

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

<b><u>Data</u></b>	<b><u>Source</u></b>
1) Numbers of ICPs attached to 11kv/400v transformers	- GIS
2) Transformers connected between Isolation Points	- GIS
3) Real time data.	- RealFlex Scada

The data from SCADA is accurate within the abilities of operators and field staff to report and record each manual event. The logging of SCADA connected devices is automatic.

**SCADA Timing**

Automatically recorded SCADA data is time stamped at the remote terminal units (RTU). These RTUs are time corrected to the master station each half hour.

**Utilities**

**RealFlex SCADA**

Centralines SCADA is part of Unison’s Taupo-Rotorua SCADA System, with all Zone Substation 33kV and 11kV CBs linked by RTUs that report automatically and time stamp all changes of state devices directly to the SCADA Daily Log File.

Each Zone Substation and 11kV Feeder is represented by a schematic picture, a SCADA tile, or series of SCADA tiles if the feeder is extensive in the real world.

The SCADA Event Search tool is used to search and print a report for each unplanned outage.

The resulting report is used with GIS data to compile a report, in preparation for entry into the Faults database.

**Faults Access Database**

All Unplanned and Planned Outages are processed from their initiation to completion using Access modules contained in the Faults database.

Each unplanned or planned outage has a unique identifier, the Sheet Number / Record Number.

A summary of general details for each unplanned and planned Outage is recorded by the operator.

For planned outages, the Switching Update form is used to collate all relevant data entered on the Switching Instruction.

Times of power off, power restored and ICPs affected, are entered in the database from the data entered on the Switching Instruction.

All ICP data comes from GIS.

Supply Off and Supply Restored times are annotated on the Switching Instruction in real time.

At the end of the process the calculator checks that the total number of ICPs restored is correct before final calculations are made.

The record cannot be saved until both values are equal.

Only the final, calculated data is held in the table 'Datafile'.

All the incremental step values are held in a common table, 'Outage Calculator'.

Both tables are linked using the Sheet No field of the Datafile record.

For unplanned outages, the Network Update Form is used to collate all relevant data.

The times of restoration or interruption, are taken from an extract of the SCADA Daily Log File.

The operator enters the total number of ICPs affected, calculated from the Excel spreadsheets, time of Supply Fail, and time of Total Restoration of Supply.

In the case of faults where sequential restorations and further interruptions to supply occur, the elapsed times, interruption times, ICPs and feeder amps restored or interrupted at each step, are entered in a custom built calculator.

At the end of the process the calculator checks that the total number of ICPs restored is correct before final calculations are made.

The record cannot be saved until both values are equal.

Only the final, calculated data is held in the table 'Datafile'. All the incremental step values are held in a common table, 'Outage Calculator'. Both tables are linked using the Sheet Number field of the Datafile record.

---

**CLARIFICATION**

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

General Manager Business Assurance  
Unison Networks Ltd  
PO Box 555  
1101 Omahu Rd  
Hastings  
Ph (06) 873 9300  
Fax (06) 873 9311