

# ALPINE ENERGY LIMITED

## THRESHOLD COMPLIANCE STATEMENT

FOR THE ASSESSMENT DATE, 31 MARCH 2010

*Pursuant to the Commerce Act (Electricity Distribution Thresholds) Notice 2004*

20 May 2010

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**1. Disclosure of Information Required (Clause 7(1)(a)(i) – The Price Path Threshold)**

Alpine Energy Limited does comply with all requirements of the price path threshold at the assessment date, 31 March 2010, as specified in the Commerce Act (Electricity Distribution Thresholds) Notice 2004.

**Clause 5 (1) (a)** The Notional Revenue of a distribution business at each assessment date (calculated in accordance with the numerator of the left-hand side of the following expression) is not to exceed the allowable Notional Revenue of the distribution business under the CPI-X price path at that assessment date (calculated in accordance with the denominator of the right-hand side of the following expression):

<b>Test:</b>	$\frac{NR_{2010}}{R_{2010}}$	$\leq 1$
<b>Result:</b>	\$20,376,539 / \$20,401,968	< 1
<b>Result:</b>	0.9988	< 1
<b>Result:</b>	Threshold is not breached	

**Clause 5 (1) (b)** The Notional Revenue of a distribution business at any time during an assessment period is not to exceed the greater of the Notional Revenue of the distribution business at the assessment date on which that assessment period ends and the Notional Revenue of the distribution business at the previous assessment date under this clause (or, if the previous assessment date is the reference date, under clause 5 of the initial Notice).

<b>Test:</b>	$\frac{NR_{Max}}{Max(R_{2009}, R_{2010})}$	$\leq 1$
<b>Result:</b>	\$20,376,539 / \$20,401,968	< 1
<b>Result:</b>	0.9988	< 1
<b>Result:</b>	Threshold is not breached	

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

Alpine Energy increased prices for the majority of customers on 1 April 2009, and on 31 March 2010 rebalanced the tariffs to align them with the cost pressures faced by the network. A mapping table is shown in Appendix C.

Alpine Energy's maximum revenue occurred on the 31<sup>st</sup> of March 2010, making

$$\text{Max}(\text{NR}_{01/04/09 - 31/03/10}) = \text{NR}_{2010}$$

### **Notional Revenue:**

In accordance with the Gazette Notice, the following sources of revenue have been included in the calculation of Notional Revenue:

- Fixed and variable line function services

### **Excluded Services:**

In accordance with the Gazette Notice the following sources of revenue have been excluded from the calculation of Notional Revenue:

- Non-conveyance revenues including:
  - Metering
  - Interest
  - Rent
  - Profit on sale of assets
- The value of assets vested in Alpine Energy Limited on behalf of customers.

**Pass Through Costs:**

In accordance with the Gazette Notice, the following components of transmission charges have been included in pass through costs:

- Connection charges
- Interconnection charges
- New investment charges
- Loss Rental Rebates

Local body rates applying to system fixed assets: lines, cables, equipment, substation land and substation buildings, and Electricity Commission levies have also been passed through in accordance with the Gazette Notice.

**2. Disclosure of Information Required (Clause 7(1)(a)(ii) – The Quality Threshold)**

Alpine Energy Limited does not comply with all requirements of the quality threshold at the assessment date, 31 March 2010, as specified in the Commerce Act (Electricity Lines Thresholds) Notice 2004.

Clause 6 (1) (a) Interruption Duration

<b>Test:</b>	$SAIDI_{2010} \leq \left( \frac{SAIDI_{1999} + SAIDI_{2000} + SAIDI_{2001} + SAIDI_{2002} + SAIDI_{2003}}{5} \right)$		
<b>Result:</b>	332.37	>	88.20
<b>Result:</b>	SAIDI breaches the threshold by 244.17 minutes		

Supporting evidence is presented in Appendix D.

Clause 6 (1) (b) Interruption Frequency

<b>Test:</b>	$SAIFI_{2010} \leq \left( \frac{SAIFI_{1999} + SAIFI_{2000} + SAIFI_{2001} + SAIFI_{2002} + SAIFI_{2003}}{5} \right)$		
<b>Result:</b>	2.18	>	1.10
<b>Result:</b>	SAIFI breaches the threshold by 1.08 interruptions		

Supporting evidence is presented in Appendix D.

## **Explanation of Breach**

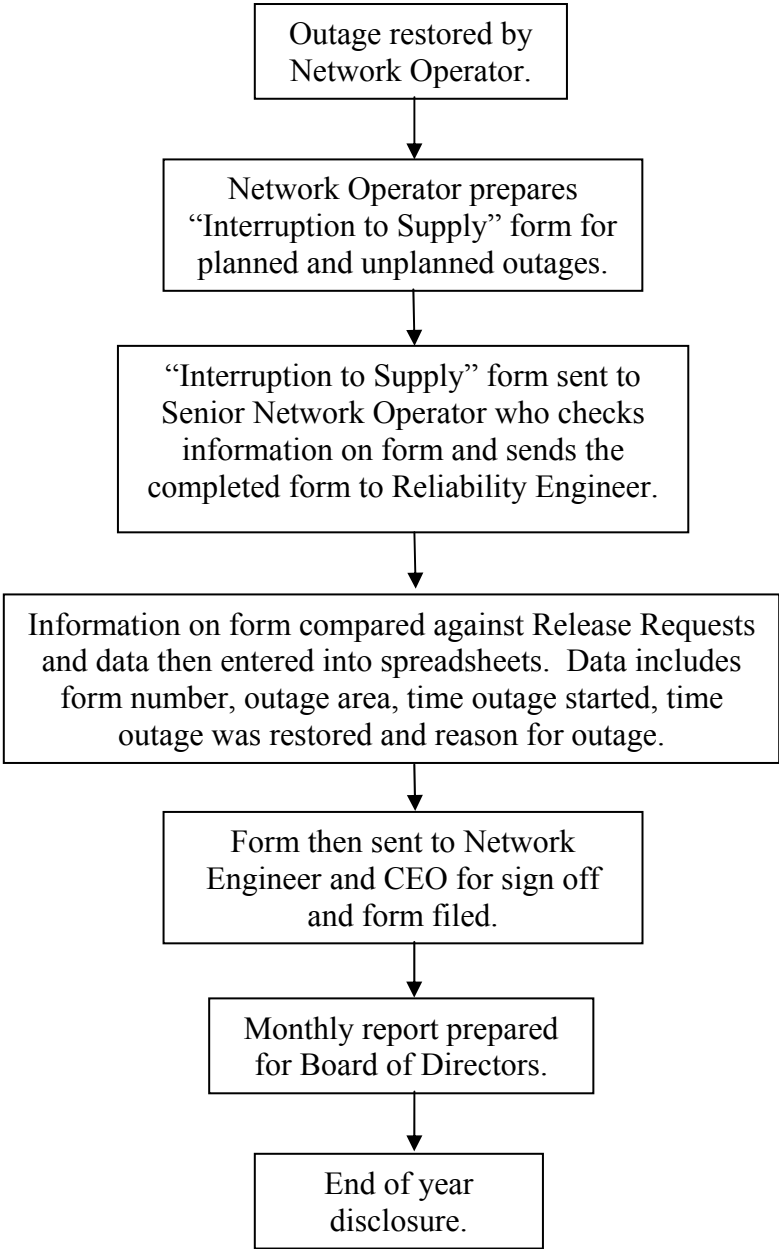
Interruptions continue to be measured against a five year period which had significantly less growth than the current period, and a period during which the network generally had excess capacity to cope with increased loads. Very strong load growth in recent years has had an impact on interruptions in two ways. There are more planned interruptions to allow for expansion and strengthening of the network, and there are an increasing number of unplanned interruptions resulting from an overloading of components of the network.

Planned interruptions in 2009-10 at 64.7 SAIDI minutes represent 73% of the annual average total SAIDI minutes for the reference period. Of the unplanned interruptions, 63% of the SAIDI minutes resulted from one event, a fire at the Timaru Sub-station.

**3. Disclosure of Information Required (Clause 7(1)(a)(iii) – SAIDI and SAIFI policies and procedures)**

The following are the Policies and Procedures which Alpine Energy use for recording SAIDI and SAIFI statistics:

- All planned and unplanned outages 3.3kV and above are recorded.
- Outages less than 1 minute duration are still reported but do not affect SAIDI and SAIFI figures.
- Outages are recorded on an “Interruption to Supply” form by the Network Operator.
- The ICP data base is interrogated for customer numbers in the outage area.
- Monthly reports prepared for Board of Directors.



## REPORT OF THE AUDITOR-GENERAL

To the readers of the threshold compliance statement of Alpine Energy Limited for the assessment period ended on 31 March 2010

We have audited the attached statement, prepared by Alpine Energy Limited for assessment as at 31 March 2010 and dated 20 May 2010. The attached statement is a threshold compliance statement in respect of the price path threshold and the quality threshold, for the purposes of information requirements set out in clause 7 of the Commerce Act (Electricity Distribution Thresholds) Notice 2004 ("the Notice"). In this report the attached statement is called "the threshold compliance statement".

### Directors' Responsibilities

Directors of Alpine Energy Limited are responsible for the certification, confirming the compliance or otherwise, of the threshold compliance statement in accordance with the Notice.

### Auditor's Responsibilities

Section 15 of the Public Audit Act 2001 and clause 7(1)(b) of the Notice require the Auditor-General to audit the threshold compliance statement. It is the responsibility of the Auditor-General to express an independent opinion on the threshold compliance statement and report the opinion to you.

The Auditor-General has appointed Robert Harris of PricewaterhouseCoopers to undertake the audit.

### Basis of Opinion - Price Path Threshold; and Quality Threshold: SAIDI and SAIFI Statistics for the Assessment Period ended 31 March 2010

We conducted the audit in accordance with the Auditor-General's Auditing Standards which include the Auditing Standards issued by the Institute of Chartered Accountants of New Zealand.

The audit included examining, on a test basis, evidence relevant to the amounts and disclosures contained on pages 2 to 7 and Appendices A to D of the threshold compliance statement and which relate to:

- the price path threshold set out in clause 5 of the Notice; and
- the SAIDI and SAIFI statistics for the assessment period ended on 31 March 2010 which are relevant to those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice.

It also included an assessment of the significant estimates and judgements, if any, made by Alpine Energy Limited in the preparation of the threshold compliance statement and an assessment of whether the basis of preparation has been adequately disclosed.

We planned and performed the audit of the threshold compliance statement so as to obtain all the information and explanation which we considered necessary, including for the purpose of obtaining sufficient evidence to give reasonable assurance that the threshold compliance statement is free from material misstatements (whether caused by fraud or error), except that our work was limited in respect of the quality threshold: SAIDI and SAIFI statistics as explained below. In forming our opinion we also evaluated the overall adequacy of the presentation of information in the threshold compliance statement.

**Basis of Opinion - Quality Threshold: SAIDI and SAIFI Statistics for the Years Ended 31 March 1999, 2000, 2001, 2002 and 2003.**

In relation to the SAIDI and SAIFI statistics for the years ended 31 March 1999, 2000, 2001, 2002 and 2003 which are relevant to those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice. We have undertaken procedures to provide reasonable assurance that:

- the amounts and disclosures in the threshold compliance statement relating to those statistics have been correctly taken from the information disclosed by Alpine Energy Limited in accordance with the Electricity (Information Disclosure) Regulations 1999; and
- those statistics have been calculated based on the source data provided to us. We have not performed audit procedures on the source data.

**Relationship and Interests**

In addition to the audit of the threshold compliance statement we have carried out other audit assignments for Alpine Energy Limited. This involved issuing an audit opinion on the annual financial statements for the year ended 31 March 2010 on behalf of the Office of the Auditor-General as well as an assurance opinion pursuant to the Electricity Information Disclosure Requirements 2008. We have also carried out other professional advisory services. Other than these assignments we have no relationship with or interests in Alpine Energy Limited.

**Opinions**

**Unqualified Opinion**

We have obtained all the information and explanations we have required.

***Price Path Threshold***

In our opinion, having made all reasonable enquiry, to the best of our knowledge the amounts or details set out in the threshold compliance statement relating to the price path threshold set out in clause 5 of the Notice and related information have been prepared in accordance with the Notice, and give a true and fair view of the performance of Alpine Energy Limited against that threshold for the assessment period ended on 31 March 2010.

***Quality Threshold: SAIDI and SAIFI statistics***

In our opinion, having made all reasonable enquiry, to the best of our knowledge:

- a) The SAIDI and SAIFI statistics for the assessment period ended on 31 March 2010 which are relevant to those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice and related information have been calculated or prepared in accordance with Alpine Energy Limited's policies and procedures for recording SAIDI and SAIFI statistics as disclosed in the threshold compliance statement; and
- b) The SAIDI and SAIFI statistics for the years ended 31 March 1999, 2000, 2001, 2002 and 2003, which are relevant to those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice, have been correctly taken from the information disclosed by Alpine Energy Limited in accordance with the Electricity (Information Disclosure) Regulations 1999. Those statistics have been properly calculated based on the unaudited source data provided to us by Alpine Energy Limited.

**REPORT OF THE AUDITOR-GENERAL**

Alpine Energy Limited

**Qualified Opinion**

Our opinion is qualified as follows:

**Quality Threshold: SAIDI and SAIFI statistics**

The scope of our audit was subject to the following limitations:

- There is no independent evidence available for the period to support the completeness and accuracy of recorded faults;
- Control over the completeness and accuracy of ICP data included in the SAIDI and SAIFI calculations is limited throughout the period; and

Because of these limitations, there are no practical audit procedures that we could adopt to confirm independently that all outage and ICP data was properly recorded for the purposes of inclusion in the amounts or details set out in the quality threshold: SAIDI and SAIFI statistics.

In these respects alone we have not obtained all the information and explanations that we have required.

Because of the potential effect of the limitations in the evidence available to us, we are unable to form an opinion as to whether the amounts or details set out in the quality threshold: SAIDI and SAIFI statistics for the assessment period ended on 31 March 2010, together with the SAIDI and SAIFI statistics for the years ended 31 March 1999, 2000, 2001, 2002 and 2003, give a true and fair view of the performance of Alpine Energy Limited against those parts of the quality threshold that are set out in clauses 6(1)(a) and 6(1)(b) of the Notice for the assessment period ended on 31 March 2010.

Our audit was completed on 20 May 2010 and our qualified and unqualified opinions are expressed as at that date.



Robert Harris  
On behalf of the Auditor-General  
Christchurch, New Zealand  
20 May 2010

PricewaterhouseCoopers

## 5. Certification of Threshold Compliance Statement

We, Ian James Bowan and Donald Murray Douglas Cleverley, being directors of Alpine Energy Limited certify that, having made all reasonable enquiry, to the best of our knowledge and belief, the attached threshold compliance statement of Alpine Energy Limited, and related information, prepared for the purposes of the Commerce Act (Electricity Distribution Thresholds) Notice 2004 complies with the requirements of that notice except for :

Clause 6(1)(a) – Threshold breached

Clause 6(1)(b) – Threshold breached



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I J Bowan  
Director

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D M D Cleverley  
Director

20 May 2010

## Appendix A

### Clause 5 (1) (a) NR2010

Notional Revenue for the year ending 31 March 2010		
Term	Description	(\$)
$\Sigma P_{i,2010} Q_i$	Prices at 31 March 2010 multiplied by 31 March 2003 Base Quantities	29,446,287
$K_{2010}$	Transmission Charges for year ending 31 March 2010	8,935,411
	Rates for year ending 31 March 2010	49,945
	Electricity Commission Levies for year ending 31 March 2010	84,393
$NR_{2010} = \Sigma P_{i,2010} Q_i - K_{2010}$	Notional Revenue for the year ending 31 March 2010	20,376,539

### R<sub>2004</sub>

Maximum Notional Revenue at the reference date which would not have caused the distribution business to breach the price path under the Initial Notice		
Term	Description	(\$)
$\Sigma P_{i,0} x Q_{i,0}$	Prices at 6 September 2003 multiplied by 31 March 2003 Base Quantities	25,159,571
$C_{T2003}$	Budget Transmission Charges for year ending 31 March 2004	7,507,000
$C_{R2003}$	Budget Rates for year ending 31 March 2004	60,000
$R_{2004}$	Maximum Revenue at 31 March 2004 that would not have caused a breach under the Initial Notice	17,592,571

Note: All notation in the table above except R<sub>2004</sub> comes from the Initial Notice.

**Test for 5 (1) (a) -  $(NR_{2010} / R_{2010} \leq 1)$**

Allowable Notional Revenue under CPI -X price path		
Term	Description	(\$)
$X$	X Factor	1%
$R_{2004}$	Maximum Revenue at 31 March 2004 that would not have caused a breach under the Initial Notice	17,592,571
$(1 + \Delta CPI_{2005})$	Average change in Consumer Price Index over 2004	1.0229
$(1-X)$	1-X Factor	0.99
$R_{2005(1)}$	Allowable Notional Revenue under the CPI-X Price Path for the year ended 31 March 2005	17,815,530
$R_C$	Revenue from new assets for existing customer	706,636
$R_{2005}$	Allowable Notional Revenue under the CPI-X Price Path for the year ended 31 March 2005	18,522,166
$(1 + \Delta CPI_{2006})$	Average change in Consumer Price Index over 2005	1.0304
$(1-X)$	1-X Factor	0.99
$R_{2006}$	Allowable Notional Revenue under the CPI-X Price Path for the year ended 31 March 2006	18,893,841
$(1 + \Delta CPI_{2007})$	Average change in Consumer Price Index over 2006	1.0337
$(1-X)$	1-X Factor	0.99
$R_{2007}$	Allowable Notional Revenue under the CPI-X Price Path for the year ended 31 March 2007	19,334,398
$(1 + \Delta CPI_{2008})$	Average change in Consumer Price Index over 2007	1.0238
$(1-X)$	1-X Factor	0.99
$R_{2008}$	Allowable Notional Revenue under the CPI-X Price Path for the year ended 31 March 2008	19,595,873
$(1 + \Delta CPI_{2009})$	Average change in Consumer Price Index over 2008	1.0396
$(1-X)$	1-X Factor	0.99
$R_{2009(1)}$	Allowable Notional Revenue under the CPI-X Price Path for the year ended 31 March 2009	20,167,946
<i>New Uncontrolled Water Heating Tariff</i>		13,140
$R_{2009}$	Allowable Notional Revenue under the CPI-X Price Path for the year ended 31 March 2009 after new tariff	20,181,086
$(1 + \Delta CPI_{2010})$	Average change in Consumer Price Index over 2010	1.0212
$(1-X)$	1-X Factor	0.99
$R_{2010}$	Allowable Notional Revenue under the CPI-X Price Path for the year ended 31 March 2010	20,401,968
$NR_{2010} / R_{2010}$	Expression must be less than or equal to 1 to avoid breaching 5(1)(a)	0.9988
$R_{2010} - NR_{2010}$	Value of Compliance or (Breach)	25,429

For presentation purposes, the CPI Index has been presented to four decimal places, however, for the calculation of  $R_{2010}$ , the full index (with no rounding) has been applied.

$\Delta CPI_{2005}$			
Numerator		Denominator	
<i>CPI</i> <sub>Q1,2004</sub>	928	<i>CPI</i> <sub>Q1,2003</sub>	913
<i>CPI</i> <sub>Q2,2004</sub>	935	<i>CPI</i> <sub>Q2,2003</sub>	913
<i>CPI</i> <sub>Q3,2004</sub>	941	<i>CPI</i> <sub>Q3,2003</sub>	918
<i>CPI</i> <sub>Q4,2004</sub>	949	<i>CPI</i> <sub>Q4,2003</sub>	924
Total	3753	Total	3669
$\Delta CPI_{2005}$	2.29%		

Source: Statistics New Zealand All Groups SE9A Index (Note this index was rebased to June 2006 -Consumers Price Index Review information paper published on 28 September 2006. The 2006 September quarter CPI was the first index published using the new base)

$\Delta CPI_{2006}$			
Numerator		Denominator	
<i>CPI</i> <sub>Q1,2005</sub>	953	<i>CPI</i> <sub>Q1,2004</sub>	928
<i>CPI</i> <sub>Q2,2005</sub>	962	<i>CPI</i> <sub>Q2,2004</sub>	935
<i>CPI</i> <sub>Q3,2005</sub>	973	<i>CPI</i> <sub>Q3,2004</sub>	941
<i>CPI</i> <sub>Q4,2005</sub>	979	<i>CPI</i> <sub>Q4,2004</sub>	949
Total	3867	Total	3753
$\Delta CPI_{2006}$	3.04%		

Source: Statistics New Zealand All Groups SE9A Index (Note this index was rebased to June 2006 -Consumers Price Index Review information paper published on 28 September 2006. The 2006 September quarter CPI was the first index published using the new base)

$\Delta CPI_{2007}$			
Numerator		Denominator	
<i>CPI</i> <sub>Q1,2006</sub>	985	<i>CPI</i> <sub>Q1,2005</sub>	953
<i>CPI</i> <sub>Q2,2006</sub>	1000	<i>CPI</i> <sub>Q2,2005</sub>	962
<i>CPI</i> <sub>Q3,2006</sub>	1007	<i>CPI</i> <sub>Q3,2005</sub>	973
<i>CPI</i> <sub>Q4,2006</sub>	1005	<i>CPI</i> <sub>Q4,2005</sub>	979
Total	3997	Total	3867
$\Delta CPI_{2007}$	3.37%		

Source: Statistics New Zealand All Groups SE9A Index (Note this index was rebased to June 2006 -Consumers Price Index Review information paper published on 28 September 2006. The 2006 September quarter CPI was the first index published using the new base)

$\Delta CPI_{2008}$			
Numerator		Denominator	
<i>CPI</i> <sub>Q1,2007</sub>	1010	<i>CPI</i> <sub>Q1,2006</sub>	985
<i>CPI</i> <sub>Q2,2007</sub>	1020	<i>CPI</i> <sub>Q2,2006</sub>	1000
<i>CPI</i> <sub>Q3,2007</sub>	1025	<i>CPI</i> <sub>Q3,2006</sub>	1007
<i>CPI</i> <sub>Q4,2007</sub>	1037	<i>CPI</i> <sub>Q4,2006</sub>	1005
Total	4092	Total	3997
$\Delta CPI_{2008}$	2.38%		

Source: Statistics New Zealand All Groups SE9A Index (Note this index was rebased to June 2006 -Consumers Price Index Review information paper published on 28 September 2006. The 2006 September quarter CPI was the first index published using the new base)

$\Delta CPI_{2009}$			
Numerator		Denominator	
<i>CPI</i> <sub>Q1,2008</sub>	1044	<i>CPI</i> <sub>Q1,2007</sub>	1010
<i>CPI</i> <sub>Q2,2008</sub>	1061	<i>CPI</i> <sub>Q2,2007</sub>	1020
<i>CPI</i> <sub>Q3,2008</sub>	1077	<i>CPI</i> <sub>Q3,2007</sub>	1025
<i>CPI</i> <sub>Q4,2008</sub>	1072	<i>CPI</i> <sub>Q4,2007</sub>	1037
Total	4254	Total	4092
$\Delta CPI_{2009}$	3.96%		

$\Delta CPI_{2010}$			
Numerator		Denominator	
<i>CPI</i> <sub>Q1,2009</sub>	1075	<i>CPI</i> <sub>Q1,2008</sub>	1044
<i>CPI</i> <sub>Q2,2009</sub>	1081	<i>CPI</i> <sub>Q2,2008</sub>	1061
<i>CPI</i> <sub>Q3,2009</sub>	1095	<i>CPI</i> <sub>Q3,2008</sub>	1077
<i>CPI</i> <sub>Q4,2009</sub>	1093	<i>CPI</i> <sub>Q4,2008</sub>	1072
Total	4344	Total	4254
$\Delta CPI_{2010}$	2.12%		

Source: Statistics New Zealand All Groups SE9A Index (Note this index was rebased to June 2006 -Consumers Price Index Review information paper published on 28 September 2006. The 2006 September quarter CPI was the first index published using the new base)

## Appendix B

### Clause 5 (1) (b)

$NR_{Max}$

Maximum Notional Revenue for the period 1 April 2009 to 31 March 2010. P x Q using 31 March 2010 Prices and 31 March 2003 Base Quantities if there has been no change in prices over this period, otherwise the prices which generate the maximum notional revenue over the period when using 31 March 2003 quantities		
Term	Description	(\$)
$\Sigma P_{Max} Q_i$	Maximum Price Between 1 April 2008 and 31 March 2009 multiplied by 31 March 2003 Base Quantities	29,446,287
$K_{2010}$	Transmission Charges for year ending 31 March 2010	8,935,411
	Rates Charges for year ending 31 March 2010	49,945
	Electricity Commission Levies for year ending 31 March 2010	84,393
$NR_{Max}$	Maximum Notional Revenue for 1 April 2009 to 31 March 2010	20,376,539

Test for 5 (1) (b) -  $(NR_{Max} / \text{Max}(R_{2008}, R_{2009})) \leq 1$

Notional Revenue during the period is not to exceed the maximum of the Allowable Notional Revenue at the end of the assessment period and the Allowable Notional Revenue at the end of the previous assessment period		
Term	Description	(\$)
$NR_{Max}$	Maximum Notional Revenue for 1 April 2009 to 31 March 2010	20,376,539
$R_{2009}$	Allowable Notional Revenue at 31 March 2009	20,181,086
$R_{2010}$	Allowable Notional Revenue at 31 March 2010	20,401,968
$\text{Max}(R_{2009}, R_{2010})$	Maximum of the Allowable Notional Revenue at 31 March 2009 and the Allowable Notional Revenue at 31 March 2010	20,401,968
$NR_{Max} / \text{Max}(R_{2009}, R_{2010})$	If expression is greater than 1, Clause 5 (1) (b) is breached	0.9988
$\text{Max}(R_{2009}, R_{2010}) - NR_{Max}$	Value of Compliance or (Breach)	25,429

# Appendix C

Price x Quantity at 30/03/2010

Tariff or Fee	Description	Number of ICPs at 31/03/03	Day kWh	Night kWh	Total kWh	kW	Winter kWh	Transmission Tariff (Individual Customers Only)	Transmission and Distribution Charges					Notional Transmission Revenue (\$)	Notional Distribution Revenue (\$)		Total Revenue (\$) P <sub>1,0</sub> Q <sub>1,0</sub>	
									Fixed	Fixed			Day Variable (c/kwh)		Night Variable (c/kwh)	Fixed		Variable
										\$/year	\$/year	\$/kW/year						
<b>Fixed Charges</b>																		
LOW	Low Fixed Charge	362																
008	Under 8 kVA	380																
015	Under 15 kVA	25,852																
360	3 x 60A	670																
U	Uncontrolled Water Heating	73																
ASS	Over 15kVA Assessed	895				62,298												
TN1	TOU 400V	143				29,539	29,354,220											
TR1	TOU 400V Remote	2				1,130	1,859,772											
TN2	11kV < 3000 kW	7				5,582	6,386,612											
TR3	TOU 11kV > 3000 kW	1				4,228	5,067,377											
IND	OP	1						496,008	152,462					496,008	152,462		648,470	
IND	AL	1						240,389	133,986					240,389	133,986		374,375	
IND	FO	1						935,498	1,235,543					935,498	1,235,543		2,171,041	
	FO - New Assets (R <sub>C</sub> )								505,670						505,670		505,670	
IND	SA	1						88,229	69,589					88,229	69,589		157,818	
<b>Variable Charges</b>																		
<b>Mass Market</b>																		
LOW	Low Fixed Charge																	
<b>Total kWh Low Fixed Charge</b>			1,021,675	413,464	1,435,139													
008	Under 8 kVA																	
015	Under 15 kVA																	
360	3 x 60A																	
ASS	Over 15kVA Assessed																	
<b>Total kWh All other MM</b>			238,368,114	96,465,590	334,833,704													
<b>Σ P<sub>1,2005</sub> Q<sub>1,2005</sub></b>																		
																29,054,315		

**Alpine Energy Limited**  
**Price x Quantity at 31/03/2010**

						Distribution				Transmission							
		Fixed	Variable Day	Variable Night	Demand	Fixed	Variable Day	Variable Night	Demand	Distribution	Transmission	Total					
		Number of ICPs	Day kWh	Night kWh	Total kWh	kW	per annum	per kWh	per kWh	per kW per annum	per annum	per kWh	per kWh	per kW per annum			
LOWHCA	Low Charge	41	116,152	47,006	163,158		\$54.75	\$0.0473	\$0.0281	\$0.00	\$0.00	\$0.0152	\$0.0030	\$0.00	9,067	1,906	\$10,973
LOWLCA	Low Charge	321	905,523	366,458	1,271,981		\$54.75	\$0.0460	\$0.0268	\$0.00	\$0.00	\$0.0152	\$0.0030	\$0.00	69,043	14,860	\$83,902
LOWUHCA	Low Uncontrolled	-	-	-	-		\$54.75	\$0.0473	\$0.0281	\$0.00	\$0.00	\$0.0388	\$0.0266	\$0.00	-	-	\$0
LOWULCA	Low Uncontrolled	-	-	-	-		\$54.75	\$0.0460	\$0.0268	\$0.00	\$0.00	\$0.0388	\$0.0266	\$0.00	-	-	\$0
015HCA	015	7,513	44,986,044	18,205,477	63,191,521		\$243.83	\$0.0263	\$0.0071	\$0.00	\$0.00	\$0.0152	\$0.0030	\$0.00	3,143,263	738,220	\$3,881,483
015LCA	015	18,719	112,077,191	45,356,705	157,433,896		\$232.22	\$0.0263	\$0.0071	\$0.00	\$0.00	\$0.0152	\$0.0030	\$0.00	7,613,794	1,839,185	\$9,452,979
015UHCA	015 Uncontrolled	-	-	-	-		\$243.83	\$0.0263	\$0.0071	\$0.00	\$212.54	\$0.0152	\$0.0030	\$0.00	-	-	\$0
015ULCA	015 Uncontrolled	73	-	-	-		\$232.22	\$0.0263	\$0.0071	\$0.00	\$212.54	\$0.0152	\$0.0030	\$0.00	16,952	15,515	\$32,467
360HCA	360	239	5,797,623	2,346,250	8,143,873		\$888.65	\$0.0263	\$0.0071	\$0.00	\$0.00	\$0.0152	\$0.0030	\$0.00	381,753	95,139	\$476,892
360LCA	360	431	10,426,371	4,219,465	14,645,836		\$846.33	\$0.0263	\$0.0071	\$0.00	\$0.00	\$0.0152	\$0.0030	\$0.00	668,319	171,097	\$839,416
360UHCA	360 Uncontrolled	-	-	-	-		\$888.65	\$0.0263	\$0.0071	\$0.00	\$212.54	\$0.0152	\$0.0030	\$0.00	-	-	\$0
360ULCA	360 Uncontrolled	-	-	-	-		\$846.33	\$0.0263	\$0.0071	\$0.00	\$212.54	\$0.0152	\$0.0030	\$0.00	-	-	\$0
ASSHCA	Assessed	686	49,875,624	20,184,250	70,059,874	49,304	\$80.89	\$0.0263	\$0.0071	\$8.78	\$0.00	\$0.0152	\$0.0030	\$30.15	1,942,309	2,305,208	\$4,247,518
ASSLCA	Assessed	209	15,205,261	6,153,443	21,358,704	12,994	\$77.04	\$0.0263	\$0.0071	\$8.37	\$0.00	\$0.0152	\$0.0030	\$30.15	568,008	641,352	\$1,209,360
TOU400HCA	TOU 400V	29	9,098,033	3,681,898	12,779,931	4,534	\$80.89	\$0.0101	\$0.0015	\$42.51	\$0.00	\$0.0025	\$0.0015	\$57.44	292,693	289,007	\$581,700
TOU400LCA	TOU 400V	116	71,725,469	29,026,700	100,752,169	26,135	\$77.04	\$0.0101	\$0.0015	\$40.48	\$0.00	\$0.0025	\$0.0015	\$57.44	1,837,004	1,726,706	\$3,563,710
TOU11HCA	TOU 11kV	3	16,926,100	6,849,852	23,775,952	5,505	\$80.89	\$0.0101	\$0.0015	\$31.88	\$0.00	\$0.0025	\$0.0015	\$57.44	357,477	369,438	\$726,915
TOU11LCA	TOU 11kV	5	9,704,718	3,927,418	13,632,136	4,305	\$77.04	\$0.0101	\$0.0015	\$30.36	\$0.00	\$0.0025	\$0.0015	\$57.44	235,253	277,768	\$513,021
IND HCA	Individually Priced	3					\$1,956,700.00				\$1,494,876.00			\$57.44	\$1,956,700.00	\$1,494,876.00	\$3,451,576
IND LCA	Individually Priced	1					\$133,986.00				\$240,389.00			\$57.44	\$133,986.00	\$240,389.00	\$374,375
<b>\$29,446,287</b>																	

**Tariff Mapping**

Tariff or Fee	Description	Number of ICPs at 31/03/03	kWh	kW	Winter kWh
<b>Mass Market</b>					
LOW	Low Fixed Charge	362			
008	Under 8 kVA	380			
015	Under 15 kVA	<u>25,852</u>			
		26,232			
015U	Under 15 kVA Uncontrolled	73			
360	3 x 60A	670			
ASS	Over 15kVA Assessed	895		62,298	
<b>Non Mass Market</b>					
TN1	TOU 400V	143	29,539	29,354,220	
TR1	TOU 400V Remote	<u>2</u>	1,130	1,859,772	
		145			
TN2	11kV < 3000 kW	7	5,582	6,386,612	
TR3	TOU 11kV > 3000 kW	<u>1</u>	4,228	5,067,377	
		8			
IND	OP	1			
IND	AL	1			
IND	FO	1			
IND	SA	<u>1</u>			
		4			
LOW	Low Fixed Charge				
	<b>Total kWh Low Fixed Charge</b>		1,435,139		
008	Under 8 kVA				
015	Under 15 kVA				
360	3 x 60A				
ASS	Over 15kVA Assessed				
	<b>Total kWh All other MM</b>		334,833,704		
		28,389	336,268,843		

Tariff or Fee	Description	Number of ICPs at 31/03/03	kWh
LOWHCA	Low Charge	41	163,158
LOWLCA	Low Charge	<u>321</u>	1,271,981
		362	
015HCA	015	7,513	63,191,521
015LCA	015	<u>18,719</u>	157,433,896
		26,232	
015ULCA	015 Uncontrolled	73	
360HCA	360	239	8,143,873
360LCA	360	<u>431</u>	14,645,836
		670	
ASSHCA	Assessed	686	70,059,874
ASSLCA	Assessed	<u>209</u>	21,358,704
		895	
TOU400HCA	TOU 400V	29	12,779,931
TOU400LCA	TOU 400V	<u>116</u>	100,752,169
		145	
TOU11HCA	TOU 11kV	3	23,775,952
TOU11LCA	TOU 11kV	<u>5</u>	13,632,136
		8	
IND HCA	Individually Priced	2	136,673,712
IND LCA	Individually Priced	<u>2</u>	18,703,330
		4	
		28,389	642,586,074

## Appendix D

Year	SAIDI (Interruption Duration)			SAIFI (Interruption Frequency)		
	Class B	Class C	Total	Class B	Class C	Total
1999	10	57	67.00	0.1	1.2	1.30
2000	15	32	47.00	0.1	0.7	0.80
2001	8	68	76.00	0.1	1.3	1.40
2002	19	50	69.00	0.2	0.8	1.00
2003	20	162	182.00	0.1	0.9	1.00
	<b>Five Year Average SAIDI</b>		<b>88.20</b>	<b>Five Year Average SAIFI</b>		<b>1.10</b>
2010	64.70	267.67	332.37	0.35	1.83	2.18