



Commerce Act (Electricity Distribution Thresholds) Notice 2004

Threshold Compliance Statement

Section 1 - Price Path Threshold

19 May 2005

Price path threshold assessment as at 31 March 2005



Price path threshold assessment as at 31 March 2005

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Introduction

- 1.1 This threshold compliance statement ("the Statement") is submitted by Vector Limited ("Vector") pursuant to s7(1)(a) of the Commerce Act (Electricity Distribution Thresholds) Notice 2004 ("the Notice").
- 1.2 The Notice relates to the performance of electricity lines businesses as part of the Commerce Commission's development and operation of a regulatory regime for such businesses, pursuant to Part 4A of the Commerce Act 1986.
- 1.3 More specifically, the Notice sets "thresholds", which, in effect, are a screening mechanism for the Commission to identify lines businesses whose performance may warrant further investigation. The Notice also requires lines businesses to publicly disclose information relevant to the assessment of their performance against the thresholds.
- 1.4 This section of the Statement pertains to the requirements of the Commission's price path threshold for the 31 March 2005 assessment date.
- 1.5 Vector, along with other lines businesses, has been required to demonstrate that notional revenue calculated in accordance with the Notice has not increased by more than CPI-X, (Vector's X is equal to 0), for the period from 1 April 2004 to 31 March 2005. Vector has demonstrated compliance with this requirement.
- 1.6 Tables contained in the statement are aggregates of the attached appendices that reflect the price multiplied by the appropriate quantity for each pricing category.

Company overview

- 1.7 Vector is a major infrastructure provider in New Zealand, owned by the Auckland Energy Consumer Trust. Vector has total assets of over \$5 billion comprising the following businesses:
 - (a) electricity distribution located in Auckland, North Auckland and Wellington. Vector is the largest electricity distributor with 648,200 connections, representing 35% of the national market. In the Auckland region, Vector trades under the Vector Electricity brand whilst in the Northern, Auckland Embedded and Wellington regions, the UnitedNetworks brand is used;

- (b) a gas distribution business in the Auckland region which currently services 72,300 consumers;
- (c) A 67% interest in NGC, a leading gas transmission and distribution company in New Zealand;
- (d) a high speed telecommunications network in Auckland and Wellington;
- (e) a majority interest in the Stream Information Partnership which provides metering services;
- (f) an industry training organisation, Utilitech; and
- (g) a 50% interest in Treescape, a tree and vegetation management company.

1.8 Clearly, Vector is involved in a range of activities that do not constitute electricity distribution and are not related to it. This is important in the context of the Notice as, while Vector is subject to the regulatory regime, only a subset of its services are relevant to the Commission's consideration (i.e. electricity distribution goods or services or services directly related to electricity distribution).

1.9 As provided for in the Notice (definition of 'specified services'), Vector has excluded a range of services from this Statement. Where services that are related to electricity distribution are excluded, Vector has, as required, demonstrated why there is workable or effective competition for the provision of those services.

1.10 Vector has taken a conservative approach to service exclusions. Vector has not sought to exclude, from this compliance demonstration, a range of other services and revenue that could potentially and appropriately be excluded (e.g. some services provided to large customers and charter payments). As such, Vector makes clear to the Commission that the service exclusions in the Statement should not be viewed in any way as a precedent for service exclusions that may be made in future compliance statements. Vector, therefore, reserves its right to justify further service exclusions to the Commission in the future.

1.11 The information contained in this Statement has been prepared for the express purpose of complying with the requirements of the Notice. This statement has not been prepared for any other purpose. Vector Limited expressly disclaims any liability to any other party who may rely on this statement for any other purpose.

Statement of compliance

2.1 As required by s7(1)(a) of the Notice, the Statement:

- provides evidence in the form of revenues, prices, list of excluded services (and the reasons and supporting evidence for excluding these services), and other data and information that confirms Vector's compliance with the price path threshold;
- provides evidence in the form of SAIDI and SAIFI statistics that confirm Vector's compliance with the quality threshold;
- provides a description of policies and procedures used by Vector to record SAIDI and SAIFI statistics; and
- includes such other information as Vector considers is sufficient to enable the Commission to properly determine whether or not the thresholds have been breached.

Public disclosure

2.2 As required by s7(1), Vector has disclosed and published the Statement on the Internet, including:

- a report on the Statement signed by Vector's auditor (KPMG), as required by s7(1)(b) of the Notice (the Auditor's Report); and
- a certificate duly signed by two Directors of Vector, as required by s7(1)(c) of the Notice (the Certificate).

2.3 As required by s7(8), Vector hereby advises the Uniform Resource Locator (URL) for accessing the Statement, the Auditor's Report and the Certificate to be http://www.vectornetworks.co.nz/information_disclosure/electricity_thresholds.php

2.4 As required by s7(1), Vector has also publicly disclosed the Statement (containing the Auditor's Report and the Certificate) by (as required by the definition of 'publicly disclose') making it available at its principal office (101 Carlton Gore Road, Newmarket, Auckland). Vector will also provide any person requesting the Statement with a copy at a charge reasonably required to cover the cost of provision (as permitted by s57W of the Commerce Act).

Price path threshold requirement (s5(1)(a) of the Notice)

- 3.1 Vector complies with s5(1)(a) of the Notice.
- 3.2 As required by s5(1)(a), lines businesses are, in effect, required to demonstrate that their notional revenue at the assessment date (in this case 31 March 2005), as calculated in accordance with the numerator of the left hand side of the equation below, has not exceeded the allowable notional revenue (which is calculated in accordance with the denominator of the left hand side of the equation below). As summarised in the table below, Vector complies with this requirement.

Notice Requirement	Allowable notional revenue divided by actual notional revenue at the assessment date	Is not to exceed	One
Notice expression	$\frac{NR_{2005}}{R_{2005}}$	\leq	1
Vector Result	$\frac{\$274,464,388}{\$280,895,195} = 0.977$	\leq	1

- 3.3 Vector's prices have increased by no more than the allowable amount during the assessment period. The discrepancy between allowed notional revenue and actual notional revenue is mainly due to an unexpected increase in transmission charges incurred by Vector over those forecast.
- 3.4 The summary calculation of NR_{2005} and R_{2005} is provided below, with more detail provided in the appendices.

Vector's Allowable Notional Revenue, $R_{2005} = R_{2004} (1 + \Delta CPI_{2005})(1 - X)$	
Calculation Components	Amount
R_{2004} – the maximum notional revenue at 31 March 2004 which would not have caused the distribution business to breach the price path threshold under the initial notice at that date, subject to <i>clauses 5(2), 5(3) and 5(4)</i> and in all cases using the same base quantities used to determine NR_{2005}	\$274,606,032
<p>ΔCPI_{2005} – the average change in the consumer price index over the calendar year that ends during the assessment period (calculated in accordance with the following expression):</p> $\Delta CPI_{2005} = \frac{CPI_{Q1,2004} + CPI_{Q2,2004} + CPI_{Q3,2004} + CPI_{Q4,2004}}{CPI_{Q1,2003} + CPI_{Q2,2003} + CPI_{Q3,2003} + CPI_{Q4,2003}} - 1$ <p>Where $CPI_{Qj,i}$ is the consumer price All Groups Index SE9A figure published by Statistics New Zealand for the quarter j in the calendar year y</p>	$(4511/4410) - 1 = 2.2902494\%$
X – is the "X factor" value specified in Schedule 1 of the Notice for the distribution business, subject to <i>clause 5(3)</i>	0
Total Allowable Notional Revenue as at 31 March 2005	\$280,895,195

Vector's Actual Notional revenue, $NR_{2005} = \sum P_{i,2005} Q_i - K_{2005}$	
Calculation Components	Amount
$\sum P_{i,2005} Q_i$ – the sum of the prices as at 31 March 2005 multiplied by the corresponding base quantities for the year ending 31 March 2003	\$407,203,976
K_{2005} – the sum of all pass-through costs for the assessment period	(\$132,739,588)
Total Actual Notional Revenue as at 31 March 2005	274,464,388

Second price path threshold requirement (s5(1)(b) of the Notice)

- 4.1 Vector complies with s5(1)(b) of the Notice.
- 4.2 Under s5(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 (in this case 31 March 2005) and the notional revenue of the distribution business at the previous assessment date.
- 4.3 Vector's notional revenue as at the assessment date (31 March 2005) was \$274,464,388, and as at the previous assessment date (31 March 2004) was \$274,682,959, with the latter being the greater of the two. Vector hereby confirms that throughout the assessment period its notional revenue was less than or equal to \$274,464,388, which is less than \$280,895,195. Vector is, therefore, in compliance with s5(1)(b) of the Notice.

Specified Services

- 5.1 To demonstrate compliance, all prices for specified services, multiplied by the appropriate base quantities, need to be summed.
- 5.2 The tables below set out all revenue sources for Vector with the corresponding notional revenues for the relevant date or, where services are excluded, an explanation for why this is so.

Specified Services

Description		Note	Year ended 31 March 2005 (\$million)
5.3	Standard Line Charge Revenue – Vector Electricity Region	A, B	132.715
5.4	Standard Line Charge Revenue – UnitedNetworks Region	A, C	215.041
5.5	Asset Specific & Reactive – UnitedNetworks Region	D, E	47.062
5.6	Non-Standard & Large Commercial - Vector Electricity Region	F, G	9.927
5.7	Utility Rates Recovery	H	2.459
5.8	Total Specified Services		407.204

Notes Relating to Specified Services

	Note	
5.9	A	<p>Standard Line Charge Revenue</p> <ul style="list-style-type: none"> • Mass Market: Vector Electricity and UnitedNetworks. • These are the residential and small commercial end-consumers who have a fixed and variable component to their charging. • For each pricing category or load group the number of end consumers assigned to that load group and the annual energy of all consumers assigned to that load group were retrieved from the appropriate information systems in the base year (year ending 31 March 2003). • The information systems are Revenue Management System (RMS) for Vector Electricity and Network Information System (NIS) for UnitedNetworks. • The base quantities were then multiplied by the price applicable to the load group/pricing category to determine the notional revenue for the assessment period.
5.10	B	<p>Standard Line Charge Revenue – Vector Electricity Region</p> <ul style="list-style-type: none"> • For detail of each price category applicable to the Vector Electricity region see Appendix 1 - Standard Line Charge Revenue Vector Electricity. • For published pricing schedules see Appendix 4 – Published Pricing Schedules – Vector Electricity.
5.11	C	<p>Standard Line Charge Revenue – UnitedNetworks Region</p> <ul style="list-style-type: none"> • For detail of each charge code applicable to the UnitedNetworks region see Appendix 2 - Standard Line Charge Revenue UnitedNetworks. • For published pricing schedules see Appendix 4 – Published Pricing Schedules – UnitedNetworks.
5.12	D	<p>Asset Specific: UnitedNetworks</p> <ul style="list-style-type: none"> • Some customers with connected capacities in excess of 300 kVA in the Wellington and Northern Regions have asset specific charges. Their line charges are assessed annually and charged as daily fixed line charges. • There are 6 line charge categories <ol style="list-style-type: none"> 1) Return on ODV: This is applied as a percentage of the customers Optimised Deprival Value of assets employed (ODV). 2) O&M: This is applied as a percentage of either the customers Optimised Replacement cost of Assets employed (ORC) or (ORC-ODV).

		<ul style="list-style-type: none"> 3) Indirect Cost: This is applied as a percentage of the customers ORC. 4) Fixed charge: This is applied to the customers Anytime Maximum Demand (AMD) corrected for Line losses when applied to transmission fixed cost. 5) Interconnection Transmission charge: This is applied to the customers On-peak Demand (OPD) and corrected for line losses. 6) Variable Transmission Charge: This is applied to the customers energy use (kWh) and corrected for losses. <ul style="list-style-type: none"> • The customers ODV, ORC and depreciation are determined as an AMD apportionment of the employed assets ODV, ORC and depreciation and are therefore treated as a base quantity for this type of pricing as well as AMD, OPD and energy. The base quantities were set in the year ending 31 March 2003. • Each of these customers has an individual price and has therefore been treated as an individual pricing category. • See Appendix 3 – Asset Specific UnitedNetworks.
5.13	E	<p>Reactive Charge to Customers with Poor Power Factor</p> <ul style="list-style-type: none"> • A published reactive charge is applied to those customers with a fixed, active demand-based line charge (\$/kW), only in the UnitedNetworks regions. The charge is fully variable, and is avoidable. • Revenue from Reactive Charges has been excluded from the notional revenue calculation. • The structure and application of this charge is such that the notional revenues cannot be sensibly determined due to the fact that the quantities cannot be definitively identified. Compliance with the substance of s5(1) has been demonstrated through an alternative approach (as provided for under s 5(5)), namely that the rate and its application has been unchanged since before 8 August 2001. • Confirmation is provided by means of the attached UnitedNetworks pricing schedules. See Appendix 4 – Published Pricing Schedules – UnitedNetworks.
5.14	F	<p>Non-Standard: Vector Electricity</p> <ul style="list-style-type: none"> • Vector’s non-standard contracts fall into four categories: <ul style="list-style-type: none"> 1. Fixed Monthly Charge 2. Standard Charges less Fixed Discount 3. Street lighting 4. Embedded generation • See Appendix 5 – Non Standard Vector Electricity.

5.15	G	<p>Large Commercial: Vector Electricity</p> <ul style="list-style-type: none"> • Meaningful information continues to be unavailable from billing agents or Vector's RMS to provide accurate quantities. • Revenue from Large Commercial customers in the Vector Electricity region has been excluded from the notional revenue calculation. • Any quantity provided at the present time can only be derived from revenue and price. • This notional revenue would therefore have no bearing on Vector's compliance with the Notice. • On 1 April 2004 prices for these customers increased by 1.5%, which is well under the allowable CPI-X increase of 2.29%, therefore, had base quantities for these customers been available, the increase to their pricing would not have caused Vector to breach the price path threshold. • In accordance with s5(5), because of this lack of information and the calculations being clearly meaningless Vector has demonstrated beyond reasonable doubt compliance with the substance of s5(1) by use of an alternative approach that has equivalent effect. • Prices for Large Commercial are available in the attached Large Commercial Network Line Charges pricing schedules. See Appendix 6 - Pricing Schedules - Vector Electricity - Commercial and Industrial. • For published pricing schedules see Appendix 4 - Published Pricing Schedules - Vector Electricity.
5.16	H	<p>Utility Rates Recovery</p> <ul style="list-style-type: none"> • Several territorial local authorities in the greater Wellington region introduced a utility rate levy from 1 July 2002. • Due to the timing of their introduction, and in light of ongoing increases as other councils seek to introduce these, a levy was introduced by Vector such that the utility rates cost would be recovered transparently through a separate fixed daily charge applied to each point of connection to the network • See Appendix 7 - Utility Rates Recovery.

Pass-Through Costs

6.1 The table below provides the break down of pass-through costs incurred by Vector over the assessment period.

Pass-Through Costs

Description		Note	Year to 31 March 2005 (\$million) Actual
6.2	Transmission	I	(127.322)
6.3	Utility Rates Summary	J	(4.736)
6.4	EC Levy Summary	K	(0.682)
Total			(132.740)

Notes Relating to Pass-Through Costs

	Note	
6.5	I	<p>Transmission Actual</p> <ul style="list-style-type: none"> The Transmission quantities are the sum of actual charges paid or payable for the year ending 31 March 2005.
6.6	J	<p>Utility Rates Summary Actual</p> <ul style="list-style-type: none"> The total cost of rates charged to Vector for the year ending 31 March 2005 are the total expensed in the financial year to 31 March 2005, excluding Gas, Administration and Commercial.
6.7	K	<p>EC Levy Rates Summary Actual</p> <ul style="list-style-type: none"> The market operations and registry and switching components of the EC Levies charged to Vector for the year ending 31 March 2005 are the total expensed in the financial year to 31 March 2005. The systems operations component of EC Levies is passed through directly to retailers and not recovered in pricing.

Excluded Services

7.1	Reserve Market
	<ul style="list-style-type: none"> • Vector operates in the instantaneous reserves market. The market is fully contestable and income is derived as a result of a competitive tendering process and is not associated with the conveyance of electricity.
7.2	Non Conveyance and Not Related Activities
	<p>The following activities are excluded services in accordance with paragraph (e) of the definition of specified services s3(1) as these income sources are clearly not related to electricity distribution and/or are non conveyance activities:</p> <ul style="list-style-type: none"> • Vector Gas: Vector’s Gas Distribution Network, which is a separate business providing gas distribution services. • Vector Communications: Vector’s Telecommunication Network, which is a separate business operating high bandwidth fibre optic communication networks. • Utilitech: Vector’s electricity, telecommunications and gas training institute, which offers technical and safety training across a wide range of markets (and in competition to other training providers). • Stream: 70% owned by Vector, providing time-of-use metering and metering information services to commercial and industrial organisations for the purposes of improved energy management opportunities for businesses. • Treescape: 50% owned by Vector, providing vegetation management and tree trimming services to third parties, including territorial authorities. • NGC: Vector’s 67% interest in NGC, which operates gas transmission and distribution services. • Advertising revenue generated through the ownership of billboards, where Vector provides public display space to advertising companies at selected properties. • Electrical work carried out at the request of customers on their property. • Use of network poles by third parties e.g. Telecommunication companies (noting that there are other options available to network operators other than use of Vector’s poles). • Miscellaneous other revenue, for example rentals received from properties, profit on sale of assets and interest received.

7.3	<p>Clearly Contestable Activities</p> <p>The following activities are excluded services in accordance with paragraph (d) of the definition of specified services s3(1) as these income sources are derived from clearly contestable activities for the provision of which there is workable or effective competition:</p> <ul style="list-style-type: none"> • Management services to other companies, such as the provision of Linelogix, a product used to provide proactive outage notification by retailers to their customers. • Rental income from generator hireage, where Vector sources and provides stand-by generation. • Where requested by customers, any income from sourcing power quality equipment.
7.4	<p>Service Charges</p> <ul style="list-style-type: none"> • A number of service charges in relation to new connections, change of connection capacity (and price category in the case of UnitedNetworks), also for temporary and vacant site disconnections, were incorporated into the use of network agreements with retailers prior to 8 August 2001. • There is also an administrative charge for late transactions (such as late or incorrect provision of consumption data) aimed at recovering unexpected costs incurred by the distributor. • Revenue from service charges has been excluded from the calculation of notional revenue. • Vector applies the charges where retailers request this service. Vector allows other suitably trained and authorised service providers to undertake connection, disconnection and reconnection services. There is, therefore workable or effective competition for the provision of these services. • Therefore, connection, disconnection and reconnection fees have been excluded in accordance with paragraph (i) of the definition of specified services s3(1).
7.5	<p>Contributions for Network Extensions</p> <ul style="list-style-type: none"> • Vector receives income from parties requiring network extensions or alterations, reflecting the level of investment required by Vector. Vector contributes to the total cost of the extension. Assets are vested in Vector on behalf of consumers, consumers can elect to own the works or vest them in a third party, examples of such situations include shopping malls, retirement villages, and residential subdivisions. Additionally third parties can select the contractors to construct the works. • Customers may choose to contract with a third party to construct and maintain such assets, rather than providing Vector with a contribution. Therefore, workable or effective competition exists for such services and customer contributions are appropriately excluded. (Refer also to the Commerce Commission Investigation Ref J5131, which is publicly available).

Appendices

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Appendix 2	Standard Line Charge Revenue UnitedNetworks
Appendix 3	Asset Specific UnitedNetworks
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Appendix 5	Non Standard Vector Electricity
Appendix 6	Pricing Schedules – Vector Electricity – Commercial and Industrial
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Commerce Act (Electricity Distribution Thresholds) Notice
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Threshold Compliance Statement

Section 2 - Quality Threshold

19 May 2005

Quality threshold assessment as at 31 March 2005

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THE COMMISSION'S REQUIREMENTS

1. The Commission's quality threshold, as set out in the final decision paper of 1 April 2004 and the Commerce Act (Electricity Distribution Thresholds) Notice 2004, provides for two criteria, related to reliability and consumer engagement. The section below discusses these criteria in more detail.

Reliability criterion

2. In broad terms, the Reliability Criterion of the quality threshold seeks to ensure (in order to comply) that there is no material deterioration in quality (as measured by reliability statistics). Sections 6(1)(a) and 6(1)(b) set out the Reliability Criteria, viz:

"(a) *interruption duration*: the SAIDI of the distribution business for each assessment period *is not to exceed* the five-year average SAIDI of the distribution business to 31 March 2003 (calculated in accordance with the right-hand side of the following expression):

$$SAIDI_j \leq \left(\frac{SAIDI_{1999} + SAIDI_{2000} + SAIDI_{2001} + SAIDI_{2002} + SAIDI_{2003}}{5} \right)$$

where:

j denotes the calendar year in which the assessment date occurs;

$SAIDI$ year is the sum of SAIDI class B and SAIDI class C, for that year, where SAIDI for a particular class is calculated by dividing the sum obtained by adding together the interruption duration factors for all interruptions within that particular interruption class for the period of 12 months ending on 31 March in that year by the average of the total number of network connection points at the beginning of that year and the total number of network connection points at the end of that year;

(b) *interruption frequency*: the SAIFI of the distribution business for each assessment *is not to exceed* the five-year average SAIFI of the distribution business to 31 March 2003 (calculated in accordance with the right-hand side of the following expression):

$$SAIFI_j \leq \left(\frac{SAIFI_{1999} + SAIFI_{2000} + SAIFI_{2001} + SAIFI_{2002} + SAIFI_{2003}}{5} \right)$$

where:

j denotes the calendar year in which the assessment date occurs;

$SAIFI$ year is the sum of SAIFI class B and SAIFI class C, for that year, where SAIFI for a particular class is calculated by dividing the sum obtained by adding together the number of network connection points affected by each interruption within that particular

interruption class for the period of 12 months ending on 31 March in that year by the average of the total number of network connection points at the beginning of that year and the total number of network connection points at the end of that year;"

Consumer engagement criterion

3. In broad terms, the Consumer Engagement Criterion seeks to ensure (in order to comply) that lines businesses are meaningfully engaging with their consumers. Section 6(1)(c) of the Notice sets out the Consumer Engagement Criterion, which places a number of requirements on lines businesses, viz:

"(c) *customer communication*: at least once during the period of 2 years ending 31 March 2006, and at least once during the period of 2 years ending 31 March 2008, a distribution business, is to—

- (i) properly advise (or ensure that another person properly advises on its behalf) its customers (or another person that accurately reflects the interests of those customers) about the price-quality trade offs available to them in relation to the goods and services provided by the distribution business; and
- (ii) consult (or ensure that another person consults on its behalf) with its customers (or another person that accurately reflects the interests of those customers) about the quality of goods and services that they require, with reference to the prices of those goods and services; and
- (iii) properly consider the views expressed by customers during and after that consultation; and
- (iv) adequately take these views into account when making its asset management decisions."

4. Vector has chosen, as provided for by the Notice, not to demonstrate compliance with the consumer engagement criterion at this time. Instead, Vector will demonstrate compliance as at the next assessment date (31 March 2006).

RELIABILITY CRITERION OF THE QUALITY THRESHOLD - CLAUSES 6(1)(A) AND 6(1)(B)

First reliability requirement (s6(1)(a) of the Notice) (SAIDI)

5. Vector complies with s6(1)(a) of the Notice.

6. As required by s6(1)(a), lines businesses are to demonstrate that their SAIDI for the assessment year does not exceed their five year average SAIDI. As summarised in the tables below, Vector complies with this requirement.¹

Notice Requirement	SAIDI for the assessment year	Is not to exceed	The five-year average SAIDI
Notice expression	$SAIDI_j$	\leq	$\left(\frac{SAIDI_{1999} + SAIDI_{2000} + SAIDI_{2001} + SAIDI_{2002} + SAIDI_{2003}}{5} \right)$
Vector Result	82.5	<	85.5

Second reliability requirement (s6(1)(b) of the Notice) (SAIFI)

7. Vector complies with s6(1)(b) of the Notice.

8. As required by s6(1)(b), lines businesses are to demonstrate that their SAIFI for the assessment year does not exceed their five year average SAIFI. As summarised in the tables below, Vector complies with this requirement.

Notice Requirement	SAIFI for the assessment year	Is not to exceed	The five-year average SAIFI
Notice expression	$SAIFI_j$	\leq	$\left(\frac{SAIFI_{1999} + SAIFI_{2000} + SAIFI_{2001} + SAIFI_{2002} + SAIFI_{2003}}{5} \right)$
Vector Result	1.148	<	1.313

¹ Detailed calculations of the figures are attached in the supporting information

Policies and Procedures for recording SAIDI and SAIFI statistics

9. Pursuant to s7(1)(a)(iii), this section describes the policies and procedures used by Vector for recording SAIFI and SAIDI statistics over the assessment period.

Recording of Outage Information

10. The Vector Operations Engineers are responsible for recording all relevant information regarding all high voltage outage events on the Vector network. Information is normally recorded on a paper based system during the restoration of outage events and transferred to a database after the event. Relevant information for each outage event captured in the database includes:

- location of outage;
- outage start time;
- restoration time for individual steps of the restoration process;
- number of customers affected during individual steps of the restoration process;
- outage cause; and
- responsible network owner (i.e. Vector or Transpower).

Maintenance of Outage Information

11. The Vector Network & Service Performance Team is responsible for checking the accuracy of data and database maintenance. Reviews are conducted to verify the information recorded. The total number of customers per network area and customers per feeder are updated on an annual basis.

Reporting of SAIDI and SAIFI

12. The Vector Business Information Team is responsible for the procedures used to calculate SAIDI and SAIFI indices from database information. The SAIDI and SAIFI indices are calculated according to the formulae and procedures set out in the Commerce Act (Electricity Distribution Thresholds) Notice 2004. Annual SAIDI and SAIFI calculations used for regulation purposes are cross checked and peer reviewed by the Vector Business Information Team and the Vector Network & Service Performance Team.

Appendices

Appendix 8	Calculation of SAIDI and SAIFI figures for the purposes of s6(1)(a) and 6(1)(b)



Commerce Act (Electricity Distribution Thresholds) Notice
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Threshold Compliance Statement

Section 3 - Appendices

19 May 2005

Threshold assessment as at 31 March 2005

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APPENDIX 2 - STANDARD LINE CHARGE REVENUE UNITED NETWORKS

NB: Numbers subject to rounding

							TOT	\$215,040,674
							VAR	\$159,600,595
							FIXED	\$55,440,080
Variable	Region	Load Group	consumption_charge_code	price_schedule_charge_code	Charge Type	Volume (kWh)	Rate from 1 April 2004	TOT
WELLINGTON								
UNG		10G	10G/CT17	G11/AICO	V	872	0.0587	\$ 51.22
UNG		10G	10G/NITE	G11/NITE	V	1,600	0.0134	\$ 21.38
UNG		10G	10G/T24U	G11/AICO	V	56,265	0.0587	\$ 3,304.95
UNG		10GC	10G/24UC	G11/AICO	V	2,226	0.0587	\$ 130.75
UNG		10GC	10G/CTUD	G11/AICO	V	1,526	0.0587	\$ 89.64
UNG		11G	11G/TAIC	G11/AICO	V	162,245	0.0587	\$ 9,530.11
UNG		12G	12G/TAIC	G12/AICO	V	5,677	0.0544	\$ 308.75
UNG		20G	20G/CT17	G20/CTRL	V	6,607	0.0360	\$ 237.65
UNG		20G	20G/CTUD	G20/CTRL	V	10,190	0.0796	\$ 811.02
UNG		20G	20G/NITE	G20/NITE	V	27,630	0.0134	\$ 370.85
UNG		20G	20G/T24U	G20/24UC	V	13,946,794	0.0707	\$ 985,711.37
UNG		G01	01G/AICO	G01/24UC	V	63,500	0.1252	\$ 7,953.30
UNG		G01	G01/24UC	G01/24UC	V	2,842,456	0.1252	\$ 356,011.99
UNG		G02	02G/AICO	G02/24UC	V	6,635	0.1252	\$ 831.05
UNG		G02	G02/24UC	G02/24UC	V	15,574,116	0.1252	\$ 1,950,627.14
UNG		G11	G11/AICO	G11/AICO	V	177,498,228	0.0587	\$ 10,426,094.27
UNG		G11	G11/NITE	G11/NITE	V	130	0.0134	\$ 1.73
UNG		G11	G11/NITE	G11/NITE	V	3,712,348	0.0134	\$ 49,611.57
UNG		G11	G11/PROJ	G11/AICO	V	93,355,081	0.0587	\$ 5,483,597.73
UNG		G12	G12/AICO	G12/AICO	V	513,028,975	0.0544	\$ 27,902,670.13
UNG		G12	G12/NITE	G12/NITE	V	229	0.0134	\$ 3.06
UNG		G12	G12/NITE	G12/NITE	V	12,007,762	0.0134	\$ 160,470.92
UNG		G12	G12/PROJ	G12/AICO	V	247,099,978	0.0544	\$ 13,439,297.79
UNG		G13	G13/24UC	G13/24UC	V	24,532,704	0.0570	\$ 1,397,824.60
UNG		G13	G13/CTRL	G13/CTRL	V	6,402,736	0.0427	\$ 273,279.69
UNG		G13	G13/NITE	G13/NITE	V	14	0.0134	\$ 0.19
UNG		G13	G13/NITE	G13/NITE	V	1,240,809	0.0134	\$ 16,582.09
UNG		G14	G14/24UC	G14/24UC	V	8,566,756	0.0627	\$ 536,928.34
UNG		G14	G14/CTRL	G14/CTRL	V	2,522,718	0.0493	\$ 124,399.96
UNG		G14	G14/NITE	G14/NITE	V	1,510,998	0.0134	\$ 20,192.87
UNG		G15	G15/AICO	G15/AICO	V	10,046,912	0.0587	\$ 590,147.02
UNG		G15	G15/NITE	G15/NITE	V	15,352	0.0134	\$ 205.16
UNG		G16	G16/AICO	G16/AICO	V	21,626,530	0.0544	\$ 1,176,225.85
UNG		G16	G16/NITE	G16/NITE	V	8,801	0.0134	\$ 117.61
UNG		G17	G17/24UC	G17/24UC	V	32,193	0.0570	\$ 1,834.32
UNG		G17	G17/CTRL	G17/CTRL	V	7,188	0.0427	\$ 306.81
UNG		G18	G18/24UC	G18/24UC	V	1,443	0.0627	\$ 90.42
UNG		G18	G18/CTRL	G18/CTRL	V	752	0.0493	\$ 37.10
UNG		G20	G20/24UC	G20/24UC	V	263,881,648	0.0707	\$ 18,650,246.14
UNG		G20	G20/CTRL	G20/CTRL	V	1,287,221	0.0360	\$ 46,298.27
UNG		G20	G20/CTUD	G20/CTUD	V	6,817,876	0.0796	\$ 542,634.68
UNG		G20	G20/CTUN	G20/CTUN	V	549,402	0.0268	\$ 14,748.66
UNG		G20	G20/NITE	G20/NITE	V	102	0.0134	\$ 1.37
UNG		G20	G20/NITE	G20/NITE	V	2,797,813	0.0134	\$ 37,552.10
UNG		G20	G20/PROJ	G20/24UC	V	83,450,150	0.0707	\$ 5,897,969.21
UNG		G20	G20TAIC	G20/24UC	V	9,471	0.0707	\$ 669.41
UNG		G21	G21/24UC	G21/24UC	V	4,397,698	0.0374	\$ 164,299.75
UNG		G22	G22/24UC	G22/24UC	V	3,115,756	0.0402	\$ 125,355.23
UNG		G22	G22/CTUD	G22/CTUD	V	82,906	0.0453	\$ 3,756.11
UNG		G22	G22/NITE	G22/NITE	V	45,262	0.0134	\$ 607.50
UNG		G23	G23/24UC	G23/24UC	V	554,952	0.0402	\$ 22,327.23
UNG		G24	G24/24UC	G24/24UC	V	464,742	0.0365	\$ 16,962.67
UNG		G26	G26/24UC	G26/24UC	V	270,300	0.0365	\$ 9,865.72
						1,523,652,277		\$ 90,449,204.43
WAIITEMATA								
UNW		11W	11W/TAIC	W11/AICO	V	37,865	0.0594	\$ 2,247.37
UNW		12W	12W/TAIC	W12/AICO	V	200	0.0408	\$ 8.14
UNW		13W	13W/TAIC	W13/CTRL	V	20,152	0.0336	\$ 677.15
UNW		20W	20W/TAIC	W20/TAIC	V	76,944	0.0198	\$ 1,522.04
UNW		21W	21W/TAIC	W21/TAIC	V	364	0.0160	\$ 5.82
UNW		22W	22W/TAIC	W22/TAIC	V	6,766	0.0147	\$ 99.66
UNW		23W	23W/TAIC	W23/TAIC	V	307	0.0198	\$ 6.06
UNW		23W	23W/TAIC	W23/TAIC	V	181,474,512	0.0198	\$ 3,589,768.13
UNW		24W	24W/TAIC	W24/TAIC	V	71,963,289	0.0160	\$ 1,150,969.54
UNW		25W	25W/TAIC	W25/TAIC	V	23,738,706	0.0147	\$ 349,679.98
UNW		26W	26W/TAIC	W26/TAIC	V	23,354,741	0.0134	\$ 312,095.71
UNW		W01	DEFT/NTH	W01/24UC	V	3,079	0.0967	\$ 297.84
UNW		W01	W01/24UC	W01/24UC	V	81,854	0.0967	\$ 7,917.17
UNW		W02	W02/24UC	W02/24UC	V	15,304,737	0.0967	\$ 1,480,320.45
UNW		W11	W11/AICO	W11/AICO	V	301,115,912	0.0594	\$ 17,872,061.95
UNW		W11	W11/NITE	W11/NITE	V	1,086	0.0134	\$ 14.51
UNW		W11	W11/NITE	W11/NITE	V	73,121	0.0134	\$ 977.18
UNW		W12	W12/AICO	W12/AICO	V	1,006,462,690	0.0408	\$ 41,088,490.28
UNW		W12	W12/NITE	W12/NITE	V	79	0.0134	\$ 1.05
UNW		W12	W12/NITE	W12/NITE	V	2,021,960	0.0134	\$ 27,021.34
UNW		W13	W13/24UC	W13/24UC	V	1,133,614	0.0456	\$ 51,738.02
UNW		W13	W13/CTRL	W13/CTRL	V	85,084	0.0336	\$ 2,858.99
UNW		W14	W14/24UC	W14/24UC	V	20,616	0.0652	\$ 1,344.49
UNW		W14	W14/CTRL	W14/CTRL	V	16,359	0.0505	\$ 825.39
UNW		W15	W15/AICO	W15/AICO	V	16,295,728	0.0594	\$ 967,196.51
UNW		W15	W15/NITE	W15/NITE	V	2,580	0.0134	\$ 34.48
UNW		W16	W16/AICO	W16/AICO	V	47,553,080	0.0408	\$ 1,941,337.99
UNW		W16	W16/NITE	W16/NITE	V	1,945	0.0134	\$ 26.00
UNW		W17	W17/24UC	W17/24UC	V	242,390	0.0456	\$ 11,062.63
UNW		W17	W17/CTRL	W17/CTRL	V	1,988	0.0336	\$ 66.80
UNW		W27	W27/24UC	W27/24UC	V	5,885,716	0.0139	\$ 81,899.30
UNW		W27	W27/CTRL	W27/CTRL	V	14,062	0.0097	\$ 136.92
UNW		W28	W28/24UC	W28/24UC	V	10,170,726	0.0162	\$ 164,468.27
UNW		W28	W28/CTRL	W28/CTRL	V	146,087	0.0113	\$ 1,653.08
UNW		W28	W28TTAIC	W28/CTRL	V	752,251	0.0113	\$ 8,512.29
UNW		W29	W29/24UC	W29/24UC	V	1,956,859	0.0162	\$ 31,643.89
UNW		W29	W29TTAIC	W29/CTRL	V	212,446	0.0113	\$ 2,403.99
						1,710,229,895		\$ 69,151,390.42

Fixed							
Region	Load Group	consumption_charge_code	price_schedule_charge_code	Charge Type	ICPs	Rate from 1 April 2004	TOT
WELLINGTON							
UNG	08G	08G/FIXED LINE	08G/FIXED LINE	F	160	1.2742	\$ 74,415.35
UNG	09G	09G/FIXED LINE	09G/FIXED LINE	F	2	3.6155	\$ 2,639.32
UNG	11G	11G/TAIC	G11/AICO	F	1	0.1116	\$ 40.72
UNG	20G	20G/T24U	G20/24UC	F	1	0.8788	\$ 320.76
UNG	G01	G01/24UC	G01/24UC	F	52	-	\$ -
UNG	G02	G02/24UC	G02/24UC	F	65	-	\$ -
UNG	G11	G11/AICO	G11/AICO	F	49,475	0.1116	\$ 2,014,832.45
UNG	G12	G12/AICO	G12/AICO	F	83,848	0.2070	\$ 6,334,693.75
UNG	G13	G13/24UC	G13/24UC	F	3,521	0.2756	\$ 354,148.24
UNG	G14	G14/24UC	G14/24UC	F	2,508	0.1424	\$ 130,397.02
UNG	G15	G15/AICO	G15/AICO	F	2,041	0.1116	\$ 83,118.20
UNG	G16	G16/AICO	G16/AICO	F	1,412	0.2070	\$ 106,676.22
UNG	G17	G17/24UC	G17/24UC	F	5	0.2756	\$ 502.91
UNG	G18	G18/24UC	G18/24UC	F	1	0.1424	\$ 51.99
UNG	G20	G20/24UC	G20/24UC	F	11,271	0.8788	\$ 3,615,341.68
UNG	G21	G21/24UC	G21/24UC	F	201	8.0548	\$ 590,936.73
UNG	G22	G22/24UC	G22/24UC	F	94	9.9401	\$ 341,043.88
UNG	G23	G23/24UC	G23/24UC	F	87	9.9401	\$ 315,647.00
UNG	G24	G24/24UC	G24/24UC	F	9	25.8991	\$ 85,078.52
UNG	G26	G26/24UC	G26/24UC	F	4	31.0789	\$ 45,375.21
					154,758		\$ 14,095,259.98
WAITEMATA							
UNW	08W	08W/FIXED LINE	08W/FIXED LINE	F	938	1.2742	\$ 436,259.99
UNW	09W	09W/FIXED LINE	09W/FIXED LINE	F	2	3.6533	\$ 2,666.90
UNW	20W	20W/TAIC	23W/TAIC	F	9	2.2832	\$ 7,500.47
UNW	21W	21W/TAIC	24W/TAIC	F	1	8.2387	\$ 3,007.14
UNW	22W	22W/TAIC	25W/TAIC	F	3	14.6993	\$ 16,095.71
UNW	23W	23W/TAIC	23W/TAIC	F	8,372	2.2832	\$ 6,977,108.40
UNW	24W	24W/TAIC	24W/TAIC	F	1,340	8.2387	\$ 4,029,562.38
UNW	25W	25W/TAIC	25W/TAIC	F	308	14.6993	\$ 1,652,493.37
UNW	26W	26W/TAIC	26W/TAIC	F	270	21.1703	\$ 2,086,333.49
UNW	W01	W01/24UC	W01/24UC	F	16	-	\$ -
UNW	W02	W02/24UC	W02/24UC	F	119	-	\$ -
UNW	W11	W11/AICO	W11/AICO	F	54,132	0.1044	\$ 2,062,053.80
UNW	W12	W12/AICO	W12/AICO	F	113,880	0.5105	\$ 21,220,273.43
UNW	W13	W13/24UC	W13/24UC	F	123	0.5105	\$ 22,919.68
UNW	W14	W14/24UC	W14/24UC	F	5	0.1053	\$ 192.18
UNW	W15	W15/AICO	W15/AICO	F	5,199	0.1044	\$ 198,045.85
UNW	W16	W16/AICO	W16/AICO	F	4,253	0.5105	\$ 792,499.32
UNW	W17	W17/24UC	W17/24UC	F	19	0.5105	\$ 3,540.44
UNW	W27	W27/24UC	W27/24UC	F	26	36.7108	\$ 348,385.34
UNW	W28	W28/24UC	W28/24UC	F	77	42.4053	\$ 1,191,800.96
UNW	W29	W29/24UC	W29/24UC	F	19	42.4053	\$ 294,080.76
					189,111		\$ 41,344,819.61

APPENDIX 3 - ASSET SPECIFIC UNITED NETWORKS

Load Group	Region	ICPs	Volume (kWh)	TOT
G40 & G60	Waitemata	N/A	N/A	-
	Wellington	639	543,213,575	24,927,346
G40 - Asse	Waitemata	301	295,842,886	11,220,406
	Wellington	N/A	N/A	-
	Auckland Embedded	N/A	N/A	-
G60 - Asse	Waitemata	23	218,204,543	4,573,026
	Wellington	25	181,571,040	6,341,267
	Auckland Embedded	N/A	N/A	-
TOTAL		988	1,238,832,044	47,062,045

APPENDIX 4 - PUBLISHED PRICING SCHEDULES

Attached as separate PDF file.

APPENDIX 5 - NON STANDARD VECTOR ELECTRICITY

Fixed Contracts			
Contract No	P	Q	TOT
1005	\$ 35,526	12	\$ 426,312
1006	\$ 86,987	12	\$ 1,043,844
1007	\$ 134,981	12	\$ 1,619,772
1004	\$ 17,205	12	\$ 206,460
1004	\$ 14,077	12	\$ 168,924
1027	\$ 257,073	12	\$ 3,084,876
1027	\$ 9,700	12	\$ 116,400
1002	\$ 44,700	12	\$ 536,400
1012	\$ 27,311	12	\$ 327,732
Std Charges - Fixed Discount			
1031	-\$ 1,667	12	-\$ 20,004
1032	\$ -	12	\$ -
1032	\$ -	12	\$ -
1032	\$ -	12	\$ -
Streetlighting			
1020B	\$ 14,167	12	\$ 170,004
1020B	\$ 14,167	12	\$ 170,004
1020B	\$ 14,167	12	\$ 170,004
1020B	\$ 14,167	12	\$ 170,004
1020B	\$ 14,167	12	\$ 170,004
1020B	\$ 14,167	12	\$ 170,004
1020B	\$ 14,167	12	\$ 170,004
1020B	\$ 14,167	12	\$ 170,004
1020B	\$ 14,167	12	\$ 170,004
1021A	\$ 82,587	12	\$ 991,044
1021A	\$ -	12	\$ -
1021A	\$ -	12	\$ -
1021A	\$ -	12	\$ -
1021A	\$ -	12	\$ -
Embedded Generation			
1034	\$ 5,400	12	\$ 64,800
			\$ 9,926,592

APPENDIX 6 - PRICING SCHEDULES – VECTOR ELECTRICITY – COMMERCIAL AND INDUSTRIAL

Product	Price to 31 March 2003	List Price Description	UoM	Price from 1 April 2004	Variance (%)
Connection HV All Price Zones	0.0305	Price Created 1 Sept 1999	\$/kVA	0.0310	1.64%
Connection HV Price Zone 1	0.0165	Price Created 1 Sept 1999	\$/kVA	0.0167	1.21%
Connection HV Price Zone 2	0.0251	Price Created 1 Sept 1999	\$/kVA	0.0255	1.59%
Connection HV Price Zone 3	0.0299	Price Created 1 Sept 1999	\$/kVA	0.0303	1.34%
Connection LV3 All Price Zones	0.0354	Price Created 1 Sept 1999	\$/kVA	0.0359	1.41%
Connection LV3 Price Zone 1	0.0209	Price Created 1 Sept 1999	\$/kVA	0.0212	1.44%
Connection LV3 Price Zone 2	0.0309	Price Created 1 Sept 1999	\$/kVA	0.0314	1.62%
Connection LV3 Price Zone 3	0.0353	Price Created 1 Sept 1999	\$/kVA	0.0358	1.42%
Connection TX All Price Zones	0.0338	Price Created 1 Sept 1999	\$/kVA	0.0343	1.48%
Connection TX Price Zone 1	0.0200	Price Created 1 Sept 1999	\$/kVA	0.0203	1.50%
Connection TX Price Zone 2	0.0295	Price Created 1 Sept 1999	\$/kVA	0.0299	1.36%
Connection TX Price Zone 3	0.0337	Price Created 1 Sept 1999	\$/kVA	0.0342	1.48%
Demand All Price Zones	0.2357	Price Created 1 March 1996	\$/kVA	0.2392	1.48%
Demand Price Zone 1	0.1128	Price Created 1 March 1996	\$/kVA	0.1145	1.51%
Demand Price Zone 2	0.1729	Price Created 1 March 1996	\$/kVA	0.1755	1.50%
Demand Price Zone 3	0.2153	Price Created 1 March 1996	\$/kVA	0.2185	1.49%
Distribution Summer Day	0.0072	Price Created 1 March 1996	\$/kWh	0.0072	0.00%
Distribution Summer Night	0.0020	Price Created 1 March 1996	\$/kWh	0.0020	0.00%
Distribution Winter Day	0.0406	Price Created 1 March 1996	\$/kWh	0.0406	0.00%
Distribution Winter Night	0.0020	Price Created 1 March 1996	\$/kWh	0.0020	0.00%
PPD	0.9000				

APPENDIX 7 - UTILITY RATES RECOVERY

Levy Charge (cents per day per connection)	0.03616
Number of connections	186,333
Levy Revenue (1 April 2004 - 31 March 2005)	\$ 2,459,297

APPENDIX 8 - CALCULATION OF SAIDI AND SAIFI FIGURES FOR THE PURPOSES OF S6(1)(A) AND 6(1)(B)

Cause Responsibility	VECTOR
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Sum of SumOfCustMins	Region			
DISCLOSURE_YEAR	AUCKLAND	NORTHERN	WELLINGTON	Grand Total
00/01	13070886.15	25576088	4315737	42962711.15
01/02	14018589.53	26774194	3542016	44334799.53
02/03	20035481.04	41183159	4493664	65712304.04
03/04	18067518.06	36529672	11769009	66366199.06
04/05	18032508.09	29006503	6288957	53327968.09
98/99	20937254.97	36432001	5325964.381	62695220.35
99/00	14944847.08	19358545	4374431.944	38677824.03
Grand Total	119107084.9	214860162	40109779.33	374077026.3

Cause Responsibility	VECTOR
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Sum of SumOfCustAffec	Region			
DISCLOSURE_YEAR	AUCKLAND	NORTHERN	WELLINGTON	Grand Total
00/01	261162.4965	380458	59125	700745.4965
01/02	217054.8591	437458	63038	717550.8591
02/03	326204.2445	582197	65195	973596.2445
03/04	270208.4325	550391	99476	920075.4325
04/05	247403.5434	433458	60717	741578.5434
98/99	309936.5991	449658	79471.25286	839065.8519
99/00	263966.3525	357669	57093.99737	678729.3499
Grand Total	1895936.528	3191289	484116.2502	5571341.778

BENCHMARK				
Year	CustMins	CustAffec	SAIDI	SAIFI
98/99	62695220.35	839065.8519	109.4351334	1.464597826
99/00	38677824.03	678729.3499	66.23679255	1.162341892
00/01	42962711.15	700745.4965	72.53575682	1.18309817
01/02	44334799.53	717550.8591	73.45665281	1.188882884
02/03	65712304.04	973596.2445	105.619622	1.564864737
Average			85.45679153	1.312757102
REGULATED YEARS				
03/04	66366199.06	920075.4325	104.3781721	1.447058791
04/05	53327968.09	741578.5434	82.53672442	1.14775541

Note to reliability data tables

In relation to the Northern and Wellington networks acquired in October 2002, the historical information has been prepared from records acquired with the business. In some cases these records have been limited and are not consistent with other operational network management systems. We are satisfied that the information available is reliable and has been consistently compiled for the purposes of the preparation of the calculations.

DISCLOSURE_YEAR	Region	Cause Responsibility	SumOfCustAffec	SumOfCustMins
00/01	AUCKLAND	TRANSPOWER	4635.025641	37080.20513
00/01	AUCKLAND	VECTOR	261162.4965	13070886.15
00/01	NORTHERN	TRANSPOWER	38278	351487
00/01	NORTHERN	VECTOR	380458	25576088
00/01	WELLINGTON	TRANSPOWER	0	0
00/01	WELLINGTON	VECTOR	59125	4315737
01/02	AUCKLAND	TRANSPOWER	69297.57562	1412191.302
01/02	AUCKLAND	VECTOR	217054.8591	14018589.53
01/02	NORTHERN	TRANSPOWER	0	0
01/02	NORTHERN	VECTOR	437458	26774194
01/02	WELLINGTON	TRANSPOWER	18147	218320
01/02	WELLINGTON	VECTOR	63038	3542016
02/03	AUCKLAND	TRANSPOWER	4578	84672
02/03	AUCKLAND	VECTOR	326204.2445	20035481.04
02/03	NORTHERN	TRANSPOWER	83818	3515261
02/03	NORTHERN	VECTOR	582197	41183159
02/03	WELLINGTON	TRANSPOWER	26126	1068610
02/03	WELLINGTON	VECTOR	65195	4493664
03/04	AUCKLAND	TRANSPOWER		
03/04	AUCKLAND	VECTOR	270208.4325	18067518.06
03/04	NORTHERN	TRANSPOWER	54167	1258860
03/04	NORTHERN	VECTOR	550391	36529672
03/04	WELLINGTON	TRANSPOWER	16605	1638092
03/04	WELLINGTON	VECTOR	99476	11769009
04/05	AUCKLAND	TRANSPOWER		
04/05	AUCKLAND	VECTOR	247403.5434	18032508.09
04/05	NORTHERN	TRANSPOWER	69660	763275
04/05	NORTHERN	VECTOR	433458	29006503
04/05	WELLINGTON	TRANSPOWER	675	2025
04/05	WELLINGTON	VECTOR	60717	6288957
97/98	AUCKLAND	TRANSPOWER		
97/98	AUCKLAND	VECTOR	145932.7007	21756786.89
97/98	NORTHERN	TRANSPOWER	0	0
97/98	NORTHERN	VECTOR	108609	5832586
97/98	WELLINGTON	TRANSPOWER	1268899.723	0
97/98	WELLINGTON	VECTOR	21669.98749	1237882.174
98/99	AUCKLAND	TRANSPOWER	17188.89341	273046.5116
98/99	AUCKLAND	VECTOR	309936.5991	20937254.97
98/99	NORTHERN	TRANSPOWER	11236	3022484
98/99	NORTHERN	VECTOR	449658	36432001
98/99	WELLINGTON	TRANSPOWER	65587.43104	1343743.658
98/99	WELLINGTON	VECTOR	79471.25286	5325964.381
99/00	AUCKLAND	TRANSPOWER	33052	528832
99/00	AUCKLAND	VECTOR	263966.3525	14944847.08
99/00	NORTHERN	TRANSPOWER	33708	415732
99/00	NORTHERN	VECTOR	357669	19358545
99/00	WELLINGTON	TRANSPOWER	44661.29565	2019625.828
99/00	WELLINGTON	VECTOR	57093.99737	4374431.944

YEAR	NORTHERN	WELLINGTON	AUCKLAND	VECTOR	Regulation Year	Regulation Customers
1-Apr-94	157978	134830	242066	534874		
1-Apr-95	157978	136852	243104	537934		
1-Apr-96	160313	138905	249622	548840		
1-Apr-97	164587	140989	251490	557066		
1-Apr-98	173802	143104	252361	569267		
1-Apr-99	173802	145250	257478	576530	98/99	572898
1-Apr-00	175285	147429	268621	591335	99/00	583933
1-Apr-01	181266	150493	261500	593259	00/01	592297
1-Apr-02	185918	152595	275329	613842	01/02	603551
1-Apr-03	190074	154554	285850	630478	02/03	622160
1-Apr-04	192075	156357	292739	641171	03/04	635825
1-Apr-05	196828	158462	295763	651053	04/05	646112