

Electricity Distribution Services Default Price-Quality Path Determination 2010

Annual Compliance Statement

6 June 2012

Assessment as at 31 March 2012

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1. INTRODUCTION

1.1 Background

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- 1.1.1 This Annual Compliance Statement ("the Statement") is submitted by Vector Limited ("Vector") pursuant to clause 11 of the Electricity Distribution Services Default Price-Quality Path Determination 2010, ("the Determination"). The Statement has been prepared on 6 June 2012. In the Statement, references to Vector relate only to Vector's electricity distribution business.
- 1.1.2 The Determination relates to the performance of electricity distribution businesses as part of the Commerce Commission's ("the Commission's") development and operation of a regulatory regime for such businesses, pursuant to Part 4 of the Commerce Act 1986.
- 1.1.3 The Determination requires lines businesses to provide information to the Commission relevant to the assessment of their performance against the price path and quality standards.
- 1.1.4 Under clause 8 of the Determination a lines business' notional revenue must not exceed the allowable notional revenue during the current assessment period.
- 1.1.5 Under clause 9 of the Determination a lines business' assessed reliability values either must not exceed the reliability limits for the current assessment period or must not have exceeded the reliability limit for either of the two immediately preceding extant assessment periods. As this is the second assessment period, there is only one preceding extant assessment period.

1.2 Statement of compliance

- 1.2.1 As required by clause 11.1(a) of the Determination, the Statement:
 - a) confirms Vector's compliance with the price path in clause 8 and the quality standards in clause 9 in respect of the assessment period ending on 31 March 2012; and
 - b) includes sufficient information as outlined in clause 11.1(b) of the Determination to support the Statement.

1.3 Disclaimer

1.3.1 The information contained in this Statement has been prepared for the express purpose of complying with the requirements of clause 11 of the Determination. This statement has not been prepared for any other purpose. Vector expressly disclaims any liability to any other party who may rely on this statement for any other purpose.

1.3.2	For presentation purposes some numbers in this document have been rounded. In most cases calculations are based on more detailed numbers. This may cause small discrepancies or rounding inconsistencies when aggregating some of the information presented in this document. These discrepancies do not affect the overall compliance calculations which are based on the more detailed information.								

2. PRICE PATH

2.1 Introduction

2.1.1 In this section Vector demonstrates that it has complied with the price path requirements (clause 8) of the Determination. Vector has provided information to support the statement of compliance including: the amount of allowable notional revenue, the amount of notional revenue, prices, quantities, units of measurement associated with all numeric data, the actual amount of pass through costs, the amount of forecast pass through costs used when setting prices, an explanation of variances between forecast and actual pass through costs and a description of the alternative approach used to demonstrate compliance with the price path following the restructure of prices.

2.2 Price path (clause 8 of the Determination)

- 2.2.1 As required by clause 8 of the Determination, in order to demonstrate compliance with the price path, lines businesses must demonstrate that their notional revenue during the assessment period has not exceeded the allowable notional revenue for the assessment period. The current assessment period covers the 12 months to 31 March 2012.
- 2.2.2 As outlined in the calculation below, Vector complies with the price path:

$$NR_t \le R_t$$

 $NR_{2012} \le R_{2012}$
 $\$411,779,276 \le \$414,595,869$

2.2.3 Notional revenue for the 2012 assessment period:

$$NR_t = \sum P_{i,t}Q_{i,t-2}-K_t$$

 $NR_{2012} = \sum P_{i,2012}Q_{i,2010}-K_{2012}$
 $NR_{2012} = \$555,602,970 - \$143,823,694$
 $NR_{2012} = \$411,779,276$

- a) Details of $\Sigma P_{i,2012}Q_{i,2010}$ are included in Appendices 1 to 5
- b) Details of K_{2012} are included in the pass through cost section below



2.2.4 Allowable notional revenue for the 2012 assessment:

$$R_{t} = ((\sum P_{i,t-1}Q_{i,t-2} - K_{t-1}) + (R_{t-1} - NR_{t-1})) \times ((1 + \Delta CPI_{t}) \times (1 - X))$$

$$R_{2012} = ((\sum P_{i,2011}Q_{i,2010} - K_{2011}) + (R_{2011} - NR_{2011})) \times ((1 + \Delta CPI_{2012}) \times (1 - X))$$

$$R_{2012} = ((\$542,846,905 - \$136,299,869) + (\$399,226,494 - \$398,433,089)) \times ((1 + 0.0178) \times (1 - 0))$$

$$R_{2012} = \$414,595,869$$

- a) Details of $\Sigma P_{i,2011}Q_{i,2010}$ are included in Appendices 6-10
- b) Details of K₂₀₁₁ are included in the pass through cost section 2.4
- c) Details of R₂₀₁₁ and NR₂₀₁₁ are included in the headroom section 2.5
- d) Details of $\triangle CPI_{2012}$ are included in Appendix 11

2.3 Restructuring of prices

- 2.3.1 Clause 8.6(a) of the Determination requires that if a lines business has restructured its prices that apply during an assessment period, it must demonstrate whether the restructure of itself increased allowable notional revenue above that which would have applied if the restructuring had not occurred. Where it is not possible to demonstrate the effects of the restructure on allowable notional revenue, then clause 8.6(b) requires lines businesses to demonstrate whether the restructure of itself increased revenue above that which would have applied if the restructuring had not occurred.
- 2.3.2 Vector has restructured the prices that apply during the assessment period. Consequently Vector has considered how it may comply with the requirements of clause 8.6(a) or clause 8.6(b) of the Determination following the restructure of tariffs.
- 2.3.3 Clause 8.6(a) considers the effect tariff restructures during an assessment period have on allowable notional revenue. Allowable notional revenue is determined based on tariffs in the year t-1; i.e. the tariffs that applied prior to the assessment period. It is not apparent how a tariff structure during an assessment period (year t) could change allowable notional revenue and therefore under what circumstances clause 8.6(a) could be applied. A more workable approach would be if clause 8.6(a) made reference to notional revenue rather than allowable notional revenue.
- 2.3.4 In any event, Vector has determined it cannot reasonably meet the requirements of clause 8.6(a) or clause 8.6(b). This arises as it is not possible to determine what tariffs would have been if the restructure had not occurred.
- 2.3.5 Consistent with clause 8.7 Vector has used an alternative approach to demonstrate compliance with the price path following the restructure of prices.



- 2.3.6 Vector's approach includes; where practicable, mapping billed quantities $Q_{i,2010}$ to the appropriate new prices either $P_{i,2011}$ or to $P_{i,2012}$, or where a tariff mapping between billed quantities $Q_{i,2010}$ to $P_{i,2011}$ or $P_{i,2012}$ was not practicable for an ICP or a group of ICPs, then to report actual revenues from Vector's billing system for $P_{i,2011}$ or $P_{i,2012}$ and set $Q_{i,2010}$ equal to 1 for those ICPs. This approach is consistent with clause 8.6 of the Determination had clause 8.6 referred to notional revenue as set out in paragraph 2.3.3.
- 2.3.7 In most cases, Vector's tariff restructure has consisted of consolidating multiple price plans under $P_{i,2011}$ to fewer price plans under $P_{i,2012}$. This has typically resulted in aggregating $Q_{i,2010}$ with respect to $P_{i,2012}$. More information on Vector's tariff restructures including a mapping between 2011 prices to 2012 prices can be found at:

http://www.vector.co.nz/corporate/disclosures/electricity/electricity-pricing

2.3.8 Vector has included in the Statement information relating to prices prior to the restructure and following the restructure including all relevant prices, quantities and units of measurement.

2.4 Pass through costs

2.4.1 Table 1 below provides the breakdown of pass-through costs for the 2012 assessment period.

Table 1 Summary of K_{2011} and K_{2012} pass through costs for the 2012 assessment period

	K 2011		K 2012	
Sum	\$ 136,299,869	\$	143,823,694	

Pass through cost

Description	K2011	K2012
Transmission charges	\$ 129,530,649	\$ 136,621,407
Rates	\$ 4,107,534	\$ 4,780,994
Electricity Authority levies	\$ 1,156,608	\$ 1,383,877
Commerce Act levies	\$ 1,505,078	\$ 1,037,417

2.4.2 Table 2 below provides a comparison between the forecast pass-through costs when prices were determined in December 2010 ($K_{2012,forecast}$) and actual pass-through costs (K_{2012}) for the 2012 assessment period.

Table 2 Summary of K_{2012} forecast and K_{2012} actual pass through costs for the 2012 assessment period

Sum	*	142,//2,33/	\$ 143,823,694
Pass through cost			
Description		K2012, forecast	K2012
Transmission charges	\$	136,739,544	\$ 136,621,407
Rates	\$	4,188,380	\$ 4,780,994
Electricity Authority levies	\$	1,050,977	\$ 1,383,877
Commerce Act levies	\$	793,437	\$ 1,037,417

- 2.4.3 Commerce Act levies for the year ending 31 March 2010 have been included in K_{2012} consistent with clause 8.8 of the Determination. The full amount of the Commerce Act levies for the year ending 31 March 2010 is \$1,407,633 however only 1/5 of this amount, equal to \$281,527 has been recovered during the current assessment period.
- 2.4.4 Variances in transmission charges between $K_{2012,forecast}$ used to set prices and K_{2012} measured at the end of the assessment period arise primarily as a result of changes to New Investment Contracts (NIC) as set out below:
 - a) Vector has a number of NICs with a pricing anniversary date in July each year. Changes to NICs apply from the anniversary date based on changes to Transpower's risk free rate. The risk free rate for contracts with a pricing anniversary date in July is currently calculated based on the market yields of Government 10 year bonds as observed 20 working days up to and including 31 March and 20 working days after 31 March. At the time of setting distribution prices in December (the year prior to the NIC anniversary) the amount of the price change that will take effect from the following July is unknown and must be forecast; and
 - b) A new transformer was commissioned at Pakuranga in March 2012 with a corresponding new NIC. Vector had anticipated new NIC charges in the pricing year ending 31 March 2014 as per our contract with Transpower, however incremental connection charges commenced immediately following asset commissioning.
- 2.4.5 Variances in rates between the $K_{2012,forecast}$ used to set prices and K_{2012} measured at the end of the assessment period arise due to the timing difference between the rating year used by the majority of Councils that Vector's electricity distribution network covers and the assessment period. When setting prices Vector must forecast rate increases that occur during the assessment period. Vector engages with Councils on the likely magnitude of rate increases, however typically does not have detailed information on the exact nature of these increases. Differences in rate pass through costs arise due to variances between the forecast rate price escalation estimated by Vector and the actual rate price escalation applied by Councils.
- 2.4.6 Variances in Electricity Authority levies between the $K_{2012,forecast}$ used to set prices and K_{2012} measured at the end of the assessment period arise due to the need to forecast both the Electricity Authority unit rates and the quantities these rates are applied to (number of ICPs and MWh) in order to estimate the costs for the assessment period. When prices are set these amounts are typically forecast based on information from October the year prior to the assessment period.
- 2.4.7 Variances in Commerce Act levies between the $K_{2012,forecast}$ used to set prices and K_{2012} measured at the end of the assessment period arise due to the need to forecast the Commerce Act levies for the assessment period.



2.5 Headroom carry over mechanism

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- 2.5.1 The Commission amended the price path in 2011 to allow lines businesses to carry over headroom determined under previous year's price path assessments into the current year price path. This carry over mechanism comes into effect for the first time in the 2012 Statement.
- 2.5.2 Vector has included the amounts for R_{t-1} and NR_{t-1} from the 2011 Statement as set out below.

 R_{t-1} = Allowable notional revenue during the assessment period t-1

$$R_{t-1} = R_{2011}$$

 $R_{2011} = $399,226,494$

 NR_{t-1} = Notional revenue during the assessment period t-1

 $NR_{t-1} = NR_{2011}$

 $R_{2011} = \$398,\!433,\!089$

3. QUALITY STANDARDS

3.1 Introduction

3.1.1 In this section Vector demonstrates that it has complied with the quality standards, clause 9 of the Determination. Vector has provided information to support the statement of compliance including: assessed values and reliability limits for the assessment period, the annual reliability assessment for the immediately preceding extant assessment period, relevant SAIDI and SAIFI statistics and calculations, and a description of the policies and procedures for recording SAIDI and SAIFI statistics for the assessment period.

3.2 Quality standards (clause 9 of the Determination)

- 3.2.1 As required by clause 9 of the Determination, in order to demonstrate compliance with the quality standards in respect of each assessment period other than the first assessment period, lines businesses must demonstrate that their quality standards either:
 - a) Comply with the annual reliability assessment specified in clause 9.2 for that assessment period; or
 - b) Have complied with those annual reliability assessments for the two immediately preceding extant assessment periods.
- 3.2.2 As outlined in the calculations below, Vector complies with the quality standards by complying with the annual reliability assessment specified in clause 9.2 of the Determination.
- 3.2.3 SAIDI quality standard:

$$SAIDI_{ASSESS,t} \leq SAIDI_{LIMIT}$$

$$SAIDI_{ASSESS,2012} \leq SAIDI_{LIMIT}$$

$$95.69 \le 127.35$$

3.2.4 SAIFI quality standard:

$$SAIFI_{ASSESS,t} \leq SAIFI_{LIMIT}$$

 $1.119 \le 1.860$



3.3 Reliability limits and assessed values - SAIDI

- 3.3.1 For the purposes of assessing compliance with the quality standards, Vector has calculated reliability limits and assessed values for SAIDI consistent with the process set out in Schedule 3 of the Determination.
- 3.3.2 Vector's boundary values were calculated in accordance with the following formula:

$$B_{SAIDI} = e^{(\alpha SAIDI + 2.5\beta SAIDI)}$$

$$B_{SAIDI} = e^{(-2.15+4.34)}$$

$$B_{SAIDI} = 8.91$$

3.3.3 Vector's reliability limits were calculated in accordance with the following formula:

$$SAIDI_{LIMIT} = \mu_{SAIDI} + \sigma_{SAIDI}$$

$$SAIDI_{LIMIT} = 114.00 + 13.35$$

$$SAIDI_{LIMIT} = 127.35$$

3.3.4 μ_{SAIDI} was calculated in accordance with the following formula:

 $\mu_{SAIDI} = \Sigma$ normalised daily SAIDI in reference data set / 5

$$\mu_{SAIDI} = 570.01/5$$

$$\mu_{SAIDI} = 114.00$$

3.3.5 σ_{SAIDI} was calculated in accordance with the following formula: σ_{SAIDI} = standard deviation of daily SAIDI in reference data set \times $\sqrt{365}$

$$\sigma_{SAIDI} = 13.35$$

 $\sigma_{SAIDI} = 0.70 \times 19.10$

3.3.6 No normalisation of the SAIDI assessment data set was required as no instances of daily SAIDI exceeded B_{SAIDI} .

3.4 Reliability limits and assessed values - SAIFI

- 3.4.1 For the purposes of assessing compliance with the quality standards, Vector has calculated reliability limits and assessed values for SAIFI consistent with the process set out in Schedule 3 of the Determination.
- 3.4.2 Vector's boundary values were calculated in accordance with the following formula:

$$B_{SAIFI} = e^{(aSAIFI+2.5\beta SAIFI)}$$

$$B_{SAIFI} = e^{(-6.50+4.80)}$$

$$B_{SAIFI} = 0.181$$

3.4.3 Vector's reliability limits were calculated in accordance with the following formula:

$$SAIFI_{LIMIT} = \mu_{SAIFI} + \sigma_{SAIFI}$$

$$SAIFI_{LIMIT} = 1.657 + 0.203$$

$$SAIFI_{LIMIT} = 1.860$$

3.4.4 μ_{SAIFI} was calculated in accordance with the following formula:

 $\mu_{SAIFI} = \Sigma$ normalised daily SAIFI in reference data set / 5

$$\mu_{SAIFI} = 8.283/5$$

$$\mu_{SAIFI} = 1.657$$

3.4.5 σ_{SAIFI} was calculated in accordance with the following formula:

 σ_{SAIFI} = standard deviation of daily SAIFI in reference data set $\times \sqrt{365}$

$$\sigma_{SAIFI} = 0.0106 \times 19.10$$

$$\sigma_{SAIFI} = 0.203$$

3.4.6 No normalisation of the SAIFI assessment data set was required as no instances of daily SAIFI exceeded B_{SAIFI} .



3.5 Reliability limits for preceding assessment periods

3.5.1 This is the second assessment period under the Determination. Results of the previous assessment period are shown below.

Assessment period	SAIDI _{ASSESS}	SAIDILIMIT	SAIDI Outcome	SAIFI _{ASSESS}	SAIFILIMIT	SAIFI Outcome
2011	113.76	127.35	Complies	1.240	1.860	Complies

3.6 Policies and procedures for recording SAIDI and SAIFI

- 3.6.1 Vector's Electricity Operations Centre (EOC) is responsible for managing the electricity network. The EOC manages the network in accordance with Vector's standard ENG-0051 'Electricity network guidelines: HV Events data capture and quality assurance'. This standard defines the end-to-end process for capturing and reporting reliability performance data.
- 3.6.2 The majority of medium voltage and high voltage interruptions are monitored and controlled in real-time by the EOC through Vector's SCADA system. Where equipment is involved that is not SCADA enabled, it is operated by Vector's service providers, with communication to the EOC by radio. All interruptions are logged and tracked separately in Vector's Customer Management System by Vector's customer services team.
- 3.6.3 Vector maintains a bespoke system for recording interruptions, HVEvents, which holds a replica of Vector's high voltage and medium voltage network structure, including customer numbers. The EOC engineers record details of all network interruptions, in accordance with the standard ENG 0051. For each interruption, the event type, location, duration and number of customers affected is identified. HVEvents is also used to prioritise network reconfiguration and restoration after an event.
- 3.6.4 SAIDI and SAIFI are calculated in HVEvents for each interruption, and the data retained in a database for reporting and analysis. More detailed information on Vector's HVEvents system can be found in Section 7 of Vector's 2012 AMP, and more background analysis of Vector's quality data can be found in Section 4:

http://vector.co.nz/corporate/disclosures/electricity/electricity-asset-mgmt



4. APPENDICES

Appendix 1: Summary of $P_{i,2012}Q_{i,2010}$ for the 2012 assessment period

$P_{i,2012}Q_{i,2010}$
\$ 555,602,970
P1,2012 Q1,2010
\$ 196,844,486
\$ 337,829,883
\$ 2,048,353
\$ 18,880,247



Appendix 2: Northern published charges for the 2012 assessment period

 Pi,2012 Qi,2010

 Sum
 \$ 196,844,486

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Price plan	Code	Description	Units	Pi,2012	Q1,2010	F	1,2012 Q1,2010
W100	W100-FIXD	Fixed	\$/day	0.1500	6,717,659	\$	1,007,649
W100	W100-24UC	Variable, uncontrolled	\$/kWh	0.1063	139,753,675	\$	14,855,816
W100	W100-NITE	Variable, night	\$/kWh	0.0329	203,777	\$	6,704
W102	W102-FIXD	Fixed	\$/day	0.1500	60,646,490	\$	9,096,974
W102	W102-AICO	Variable, all inclusive	\$/kWh	0.0886	1,311,557,546	\$	116,203,999
W102	W102-NITE	Variable, night	\$/kWh	0.0329	4,087,027	\$	134,463
WRUH	WRUH-FIXD	Fixed	\$/day	0.1500	· ·	\$	-
WRUH	WRUH-SHLD	Variable, shoulder	\$/kWh	0.1063		\$	-
WRUH	WRUH-OFPK	Variable, off peak	\$/kWh	0.1023	-	\$	-
WRUH	WRUH-PEAK	Variable, peak	\$/kWh	0.1126	-	\$	_
WRCH	WRCH-FIXD	Fixed	\$/day	0.1500	_	\$	12
WRCH	WRCH-SHLD	Variable, shoulder	\$/kWh	0.0886	-	\$	-
WRCH	WRCH-OFPK	Variable, off peak	\$/kWh	0.0852	-	\$	
WRCH	WRCH-PEAK	Variable, peak	\$/kWh	0.0939	= -	\$	-

Business

Price plan	Code	Description	Units	Pi,2012	Q1,2010	P1,2012 Q1,2010	
WBSU	WBSU-FIXD	Fixed	\$/day	0.1000	12,163,625	\$	1,216,363
WBSU	WBSU-24UC	Variable	\$/kWh	0.0788	17,519,004	\$	1,380,498
WBSN	WBSN-FIXD	Fixed	\$/day	0.7300	7,583,624	\$	5,536,046
WBSN	WBSN-24UC	Variable	\$/kWh	0.0608	392,885,218	\$	23,887,421

Low voltage

Price plan	Code	Description	Units	Pi,2012	Q1,2010	Pi	,2012 Q 1,2010
WLVC	WLVC-FIXD	Fixed	\$/day	5.5000	60,209	\$	331,150
WLVC	WLVC-CAPY	Capacity	\$/kVA/day	0.0150	13,540,832	\$	203,112
WLVC	WLVC-24UC	Variable	\$/kWh	0.0281	59,587,812	\$	1,674,418
WLVN	WLVN-FIXD	Fixed	\$/day	4.4000	230,294	\$	1,013,294
WLVN	WLVN-CAPY	Capacity	\$/kVA/day	0.0150	27,890,574	\$	418,359
WLVN	WLVN-24UC	Variable	\$/kWh	0.0560	107,233,583	\$	6,005,081
WLVH	WLVH-FIXD	Fixed	\$/day	18.1700	20,743	\$	376,900
WLVH	WLVH-CAPY	Capacity	\$/kVA/day	0.0150	7,802,362	\$	117,035
WLVH	WLVH-24UC	Variable	\$/kWh	0.0062	50,120,980	\$	310,750
WLVH	WLVH-DAMD	Demand	\$/kVA/day	0.2114	4,144,813	\$	876,213

Transformer

Price plan	Code	Description	Units	P1,2012	Q1,2010	Pi	,2012 Q i,2010
WTXC	WTXC-FIXD	Fixed	\$/day	4.9500	54,869	\$	271,602
WTXC	WTXC-CAPY	Capacity	\$/kVA/day	0.0135	13,956,867	\$	188,418
WTXC	WTXC-24UC	Variable	\$/kWh	0.0252	58,646,307	\$	1,477,887
WTXN	WTXN-FIXD	Fixed	\$/day	3.9600	3,681	\$	14,577
WTXN	WTXN-CAPY	Capacity	\$/kVA/day	0.0135	483,990	\$	6,534
WTXN	WTXN-24UC	Variable	\$/kWh	0.0504	1,743,446	\$	87,870
WTXH	WTXH-FIXD	Fixed	\$/day	16.3500	64,704	\$	1,057,910
WTXH	WTXH-CAPY	Capacity	\$/kVA/day	0.0135	59,440,986	\$	802,453
WTXH	WTXH-24UC	Variable	\$/kWh	0.0055	296,564,877	\$	1,631,107
WTXH	WTXH-DAMD	Demand	\$/kVA/day	0.1902	26,133,907	\$	4,970,669

High voltage

Price plan	Code	Description	Units	P _{1,2012}	Q1,2010	P	,2012 Q1,2010
WHVN	WHVN-FIXD	Fixed	\$/day	3.8800	-	\$	
WHVN	WHVN-CAPY	Capacity	\$/kVA/day	0.0132	-	\$	= 1
WHVN	WHVN-24UC	Variable	\$/kWh	0.0493	- "	\$	-
WHVH	WHVH-FIXD	Fixed	\$/day	16.0200	5,110	\$	81,862
WHVH	WHVH-CAPY	Capacity	\$/kVA/day	0.0132	11,388,800	\$	150,332
WHVH	WHVH-24UC	Variable	\$/kWh	0.0053	71,854,642	\$	380,830
WHVH	WHVH-DAMD	Demand	\$/kVA/day	0.1863	5,698,911	\$	1,061,707
WHVH	WHVH-DEXA	Excess demand	\$/kVA/day	0.5336	15,904	\$	8,486



Appendix 3: Auckland published charges for the 2012 assessment period

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 Pi,2012 Qi,2010

 \$337,829,883

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Price plan	Code	Description	Units	P _{1,2012}	Q1,2010	F	,2012 Q 1,2010
A100	A100-FIXD	Fixed	\$/day	0.1500	19,421,279	\$	2,913,192
A100	A100-24UC	Variable, uncontrolled	\$/kWh	0.0944	318,912,181	\$	30,105,310
A100	A100-NITE	Variable, night	\$/kWh	0.0292	546,125	\$	15,947
A102	A102-FIXD	Fixed	\$/day	0.1500	82,028,243	\$	12,304,236
A102	A102-AICO	Variable, all inclusive	\$/kWh	0.0787	1,709,123,423	\$	134,508,013
A102	A102-NITE	Variable, night	\$/kWh	0.0292	1,560,142	\$	45,556
ARUH	ARUH-FIXD	Fixed	\$/day	0.1500		\$	-
ARUH	ARUH-SHLD	Variable, shoulder	\$/kWh	0.0944	7. 4	\$, = 1
ARUH	ARUH-OFPK	Variable, off peak	\$/kWh	0.0908	-	\$	-
ARUH	ARUH-PEAK	Variable, peak	\$/kWh	0.1000	.=	\$	-
ARCH	ARCH-FIXD	Fixed	\$/day	0.1500	-	\$	-
ARCH	ARCH-SHLD	Variable, shoulder	\$/kWh	0.0787	-	\$	
ARCH	ARCH-OFPK	Variable, off peak	\$/kWh	0.0757		\$	-
ARCH	ARCH-PEAK	Variable, peak	\$/kWh	0.0834	-	\$	-

Business

Price plan	Code	Description	Units	P1,2012	Q1,2010	P	1,2012 Q 1,2010
ABSU	ABSU-FIXD	Fixed	\$/day	0.1000	20,478,033	\$	2,047,803
ABSU	ABSU-24UC	Variable	\$/kWh	0.0668	27,563,683	\$	1,841,254
ABSN	ABSN-FIXD	Fixed	\$/day	0.4400	12,433,308	\$	5,470,656
ABSN	ABSN-24UC	Variable	\$/kWh	0.0698	770,665,505	\$	53,792,452

Low voltage

Price plan	Code	Description	Units	P1,2012	Q1,2010	P	1,2012 Q 1,2010
ALVC	ALVC-CAPY	Capacity	\$/kVA/day	0.0291	36,157,387	\$	1,052,180
ALVC	ALVC-24UC	Variable	\$/kWh	0.0600	74,144,455	\$	4,448,667
ALVN	ALVN-FIXD	Fixed	\$/day	0.9900	628,825	\$	622,537
ALVN	ALVN-CAPY	Capacity	\$/kVA/day	0.0291	52,879,672	\$	1,538,798
ALVN	ALVN-24UC	Variable	\$/kWh	0.0658	120,355,512	\$	7,919,393
ALVH	ALVH-CAPY	Capacity	\$/kVA/day	0.0291	113,409,864	\$	3,300,227
ALVH	ALVH-SMDY	Variable, summer day	\$/kWh	0.0122	226,231,811	\$	2,760,028
ALVH	ALVH-SMNT	Variable, summer night	\$/kWh	0.0019	80,391,750	\$	152,744
ALVH	ALVH-WNDY	Variable, winter day	\$/kWh	0.0336	165,110,777	\$	5,547,722
ALVH	ALVH-WNNT	Variable, winter night	\$/kWh	0.0019	59,607,342	\$	113,254
ALVH	ALVH-DAMD	Demand	\$/kVA/day	0.2314	48,994,320	\$	11,337,286

Transformer

Price plan	Code	Description	Units	P1,2012	Q1,2010	P	1,2012 Q 1,2010
ATXN	ATXN-FIXD	Fixed	\$/day	0.9700	44,657	\$	43,317
ATXN	ATXN-CAPY	Capacity	\$/kVA/day	0.0285	10,654,625	\$	303,657
ATXN	ATXN-24UC	Variable	\$/kWh	0.0644	18,506,498	\$	1,191,818
ATXH	ATXH-CAPY	Capacity	\$/kVA/day	0.0285	167,591,518	\$	4,776,358
ATXH	ATXH-SMDY	Variable, summer day	\$/kWh	0.0119	397,280,295	\$	4,727,636
ATXH	ATXH-SMNT	Variable, summer night	\$/kWh	0.0018	165,281,095	\$	297,506
ATXH	ATXH-WNDY	Variable, winter day	\$/kWh	0.0329	288,965,164	\$	9,506,954
ATXH	ATXH-WNNT	Variable, winter night	\$/kWh	0.0018	119,303,442	\$	214,746
ATXH	ATXH-DAMD	Demand	\$/kVA/day	0.2267	79,321,306	\$	17,982,140

High voltage

Price plan	Code	Description	Units	P1,2012	Q1,2010	P	,2012 Q 1,2010
AHVN	AHVN-FIXD	Fixed	\$/day	0.9500	-	\$	4
AHVN	AHVN-CAPY	Capacity	\$/kVA/day	0.0279		\$	-
AHVN	AHVN-24UC	Variable	\$/kWh	0.0631	.=	\$	
AHVH	AHVH-CAPY	Capacity	\$/kVA/day	0.0279	54,707,398	\$	1,526,336
AHVH	AHVH-SMDY	Variable, summer day	\$/kWh	0.0116	200,914,868	\$	2,330,612
AHVH	AHVH-SMNT	Variable, summer night	\$/kWh	0.0017	92,950,466	\$	158,016
AHVH	AHVH-WNDY	Variable, winter day	\$/kWh	0.0322	142,604,588	\$	4,591,868
AHVH	AHVH-WNNT	Variable, winter night	\$/kWh	0.0017	65,636,134	\$	111,581
AHVH	AHVH-DAMD	Demand	\$/kVA/day	0.2221	36,530,359	\$	8,113,393
AHVH	AHVH-DEXA	Excess demand	\$/kVA/day	0.5336	218,681	\$	116,688



Appendix 4: Northern non-standard charges for the 2012 assessment period

P i,2012 Q i,2010
\$ 2,048,353

Price plan	Code	Description	Units	Pi,2012	Q1,2010	P1,2	012 Q1,2010
WN01			\$/year	360,981.4800	1	\$	360,981
WN02			\$/year	91,680.0000	1	\$	91,680
WN03			\$/year	184,995.3800	1	\$	184,995
WN04			\$/year	181,798.3800	1	\$	181,798
WN05			\$/year	42,004.3500	1	\$	42,004
WN06			\$/year	259,932.4900	1	\$	259,932
WN07			\$/year	602,550.5200	1	\$	602,551
WN08			\$/year	16,633.0400	1	\$	16,633
WN09		- Contractive	\$/year	7/2/2/2/2/2	1	\$	-
WN10			\$/year	307,777.8000	1	\$	307,778

Appendix 5: Auckland non-standard charges for the 2012 assessment period

 Sum
 P_{i,2012} Q_{i,2010}

 \$ 18,880,247

Price plan	Code	Description	Units	P _{1,2012}	Q1,2010	Pi	,2012 Q1,2010
AN01			\$/year	141,560.3800	1	\$	141,560
AN02			\$/year	167,459.1800	1	\$	167,459
AN03			\$/year	1,089,104.0400	1	\$	1,089,104
AN04			\$/year	138,510.0500	1	\$	138,510
AN05			\$/year	156,842.0200	1	\$	156,842
AN06			\$/year	37,800.0000	1	\$	37,800
AN07			\$/year	1,020,208.5500	1	\$	1,020,209
AN08			\$/year	230,223,7100	1	\$	230,224
AN09		N 1	\$/year		1	\$	
AN10			\$/year	32,911.2000	1	\$	32,911
AN11			\$/year	500,030.3000	1	\$	500,030
AN12			\$/year	211,083.2500	1	\$	211,083
AN13			\$/year	832,839.9500	1	\$	832,840
AN14			\$/year	327,109.4300	1	\$	327,109
AN15			\$/year	953,286.2200	1	\$	953,286
AN16			\$/year	1,484,421.6700	1	\$	1,484,422
AN17		100	\$/year	3,399,669,2500	1	\$	3,399,669
AN18			\$/year	496,650.1000	1	\$	496,650
AN19			\$/year	370,244.8300	1	\$	370,245
AN20			\$/year	318,491.0700	1	\$	318,491
AN21		(1) (2) (2) (3) (4) (4)	\$/year	532,659.4700	1	\$	532,659
AN22			\$/year	422,519.2600	1	\$	422,519
AN23		E U I I I I I I I I I I I I I I I I I I	\$/year	152,479.9200	1	\$	152,480
AN24			\$/year	242,763.5800	1	\$	242,764
AN25			\$/year	737,729.1400	1	\$	737,729
AN26			\$/year	2,295,231.4000	1	\$	2,295,231
AN27			\$/year	746,546.9100	1	\$	746,547
AN28			\$/year	-	1	\$	-
AN29			\$/year	258,377.9700	1	\$	258,378
AN30		****	\$/year	-	1	\$	-
AN31			\$/year	313,825.2200	1	\$	313,825
AN32			\$/year	590,940.5300	1	\$	590,941
AN33			\$/year	43,664.8500	1	\$	43,665
AN34			\$/year	487,909.8100	1	\$	487,910
AN35			\$/year		1	\$	-
AN36			\$/year	146,141.6300	1	\$	146,142
AN37			\$/year	-	1	\$	
AN38			\$/year	-	1	\$	-
AN39			\$/year	-	1	\$	-
AN40			\$/year	-	1	\$	-
AN41			\$/year	_	1	\$	
AN42			\$/year	1,012.4870	1	\$	1,012



Appendix 6: Summary of $P_{i,2011}Q_{i,2010}$ for the 2012 assessment period

	Pi,2011 Qi,2010
Sum	\$ 542,846,905
Residential	s case Sec
以企业的证据与TELEN 数据的第三人称形式 100 元	Pi,2011 Qi,2010
Northern published charges between 1 April 2010 to 31 March 2011	\$ 194,946,371
Auckland published charges between 1 April 2010 to 31 March 2011	\$ 325,844,735
Northern non-standard charges between 1 April 2010 to 31 March 2011	\$ 1,871,240
Auckland non-standard charges between 1 April 2010 to 31 March 2011	\$ 20,184,560



Appendix 7: Northern published charges for the 2011 assessment period

 Pi,2011 Qi,2010

 Sum
 \$ 194,946,371

	tia	

Price plan	Code	Description	Units	P1,2011	Q1,2010	F	Pi,2011 Qi,2010
W100	W100-FIXD	Fixed	\$/day	0.1500	6,717,659	\$	1,007,649
W100	W100-24UC	Variable, uncontrolled	\$/kWh	0.1095	139,753,675	\$	15,303,027
W100	W100-NITE	Variable, night	\$/kWh	0.0207	203,777	\$	4,218
W102	W102-FIXD	Fixed	\$/day	0.1500	60,646,490	\$	9,096,974
W102	W102-AICO	Variable, all inclusive	\$/kWh	0.0886	1,311,557,546	\$	116,203,999
W102	W102-NITE	Variable, night	\$/kWh	0.0207	4.087.027	\$	84,601

Business

Price plan	Code	Description	Units	Pi,2011	Q1,2010	P	1,2011 Q1,2010
WU01	WU01-24UC	Variable	\$/kWh	0.1727	17,519,004	\$	3,025,532
WB02	WB02-FIXD	Fixed	\$/day	0.6100	3,767,473	\$	2,298,159
WB02	WB02-24UC	Variable	\$/kWh	0.0610	75,633,855	\$	4,613,665
WB07	WB07-FIXD	Fixed	\$/day	0.9700	3,816,898	\$	3,702,391
WB07	WB07-24UC	Variable	\$/kWh	0.0563	317,250,616	\$	17,861,210

Low voltage

Price plan	Code	Description	Units	P _{1,2011}	Q1,2010	P	,2011 Q 1,2010
WLVC	WLVC-FIXD	Fixed	\$/day	5.0000	60,209	\$	301,045
WLVC	WLVC-CAPY	Capacity	\$/kVA/day	0.0150	13,540,832	\$	203,112
WLVC	WLVC-24UC	Variable	\$/kWh	0.0256	59,587,812	\$	1,525,448
WLVN	WLVN-FIXD	Fixed	\$/day	4.0000	230,294	\$	921,176
WLVN	WLVN-CAPY	Capacity	\$/kVA/day	0.0150	27,890,574	\$	418,359
WLVN	WLVN-24UC	Variable	\$/kWh	0.0529	107,233,583	\$	5,672,657
WLVH	WLVH-FIXD	Fixed	\$/day	16.5200	20,743	\$	342,674
WLVH	WLVH-CAPY	Capacity	\$/kVA/day	0.0137	7,802,362	\$	106,892
WLVH	WLVH-24UC	Variable	\$/kWh	0.0057	50,120,980	\$	285,690
WLVH	WLVH-DAMD	Demand	\$/kVA/day	0.1922	4,144,813	\$	796,633

Transformer

Transformer						_	
Price plan	Code	Description	Units	Pi,2011	Q1,2010	Pi	,2011 Q 1,2010
WTXC	WTXC-FIXD	Fixed	\$/day	4.5000	54,869	\$	246,911
WTXC	WTXC-CAPY	Capacity	\$/kVA/day	0.0135	13,956,867	\$	188,418
WTXC	WTXC-24UC	Variable	\$/kWh	0.0230	58,646,307	\$	1,348,865
WTXN	WTXN-FIXD	Fixed	\$/day	3.6000	3,681	\$	13,252
WTXN	WTXN-CAPY	Capacity	\$/kVA/day	0.0135	483,990	\$	6,534
WTXN	WTXN-24UC	Variable	\$/kWh	0.0476	1,743,446	\$	82,988
WTXH	WTXH-FIXD	Fixed	\$/day	14.8700	64,704	\$	962,148
WTXH	WTXH-CAPY	Capacity	\$/kVA/day	0.0123	59,440,986	\$	731,124
WTXH	WTXH-24UC	Variable	\$/kWh	0.0051	296,564,877	\$	1,512,481
WTXH	WTXH-DAMD	Demand	\$/kVA/day	0.1730	26,133,907	\$	4,521,166

High voltage

Price plan	Code	Description	Units	P1,2011	Q1,2010	Pi,	2011 Q1,2010
WHVN	WHVN-FIXD	Fixed	\$/day	3.2400	-	\$	-
WHVN	WHVN-CAPY	Capacity	\$/kVA/day	0.0122	-	\$	-
WHVN	WHVN-24UC	Variable	\$/kWh	0.0428	7.1	\$	
WHVH	WHVH-FIXD	Fixed	\$/day	14.7200	5,110	\$	75,219
WHVH	WHVH-CAPY	Capacity	\$/kVA/day	0.0122	11,388,800	\$	138,943
WHVH	WHVH-24UC	Variable	\$/kWh	0.0050	71,854,642	\$	359,273
WHVH	WHVH-DAMD	Demand	\$/kVA/day	0.1713	5,698,911	\$	976,223
WHVH	WHVH-DEXA	Excess demand	\$/kVA/day	0.4851	15,904	\$	7,715



Appendix 8: Auckland published charges for the 2011 assessment period

 Pi,2011 Qi,2010

 Sum
 \$ 325,844,735

Res		

Price plan	Code	Description	Units	Pi,2011	Q1,2010	F	21,2011 Q1,2010
A100	A100-FIXD	Fixed	\$/day	0.1500	19,421,279	\$	2,913,192
A100	A100-24UC	Variable, uncontrolled	\$/kWh	0.0942	318,912,181	\$	30,041,527
A100	A100-NITE	Variable, night	\$/kWh	0.0207	546,125	\$	11,305
A102	A102-FIXD	Fixed	\$/day	0.1500	82,028,243	\$	12,304,236
A102	A102-AICO	Variable, all inclusive	\$/kWh	0.0787	1,709,123,423	\$	134,508,013
A102	A102-NITE	Variable, night	\$/kWh	0.0207	1,560,142	\$	32,295

Business

Price plan	Code	Description	Units	P1,2011	Q1,2010	P	1,2011 Q 1,2010
A003	A003-FIXD	Fixed	\$/day	0.1940	2,974,093	\$	576,974
A110	A110-FIXD	Fixed	\$/day	0.3800	5,262,618	\$	1,999,795
A110	A110-24UC	Variable	\$/kWh	0.0685	142,518,616	\$	9,762,525
A120	A120-FIXD	Fixed	\$/day	0.6000	7,170,690	\$	4,302,414
A120	A120-24UC	Variable	\$/kWh	0.0660	628,146,889	\$	41,457,695

Low voltage

Price plan	Code	Description	Units	P1,2011	Q1,2010	P	i,2011 Q i,2010
ALVC	ALVC-CAPY	Capacity	\$/kVA/day	0.0265	36,157,387	\$	958,171
ALVC	ALVC-24UC	Variable	\$/kWh	0.0546	74,144,455	\$	4,048,287
ALVN	ALVN-FIXD	Fixed	\$/day	0.9000	628,825	\$	565,943
ALVN	ALVN-CAPY	Capacity	\$/kVA/day	0.0265	52,879,672	\$	1,401,311
ALVN	ALVN-24UC	Variable	\$/kWh	0.0621	120,355,512	\$	7,474,077
ALVH	ALVH-CAPY	Capacity	\$/kVA/day	0.0265	113,409,864	\$	3,005,361
ALVH	ALVH-SMDY	Variable, summer day	\$/kWh	0.0111	226,231,811	\$	2,511,173
ALVH	ALVH-SMNT	Variable, summer night	\$/kWh	0.0018	80,391,750	\$	144,705
ALVH	ALVH-WNDY	Variable, winter day	\$/kWh	0.0306	165,110,777	\$	5,052,390
ALVH	ALVH-WNNT	Variable, winter night	\$/kWh	0.0018	59,607,342	\$	107,293
ALVH	ALVH-DAMD	Demand	\$/kVA/day	0.2143	48,994,320	\$	10,499,483

Transformer

Price plan	Code	Description	Units	Pi,2011	Q1,2010	P	i,2011 Q i,2010
ATXN	ATXN-FIXD	Fixed	\$/day	0.8900	44,657	\$	39,745
ATXN	ATXN-CAPY	Capacity	\$/kVA/day	0.0262	10,654,625	\$	279,151
ATXN	ATXN-24UC	Variable	\$/kWh	0.0614	18,506,498	\$	1,136,299
ATXH	ATXH-CAPY	Capacity	\$/kVA/day	0.0262	167,591,518	\$	4,390,898
ATXH	ATXH-SMDY	Variable, summer day	\$/kWh	0.0110	397,280,295	\$	4,370,083
ATXH	ATXH-SMNT	Variable, summer night	\$/kWh	0.0018	165,281,095	\$	297,506
ATXH	ATXH-WNDY	Variable, winter day	\$/kWh	0.0302	288,965,164	\$	8,726,748
ATXH	ATXH-WNNT	Variable, winter night	\$/kWh	0.0018	119,303,442	\$	214,746
ATXH	ATXH-DAMD	Demand	\$/kVA/day	0.2117	79,321,306	\$	16,792,320

High voltage

Price plan	Code	Description	Units	P1,2011	Q1,2010	P	,2011 Q 1,2010
AHVN	AHVN-FIXD	Fixed	\$/day	0.8800	-	\$	
AHVN	AHVN-CAPY	Capacity	\$/kVA/day	0.0259	-	\$	-
AHVN	AHVN-24UC	Variable	\$/kWh	0.0608	-	\$	
AHVH	AHVH-CAPY	Capacity	\$/kVA/day	0.0259	54,707,398	\$	1,416,922
AHVH	AHVH-SMDY	Variable, summer day	\$/kWh	0.0109	200,914,868	\$	2,189,972
AHVH	AHVH-SMNT	Variable, summer night	\$/kWh	0.0018	92,950,466	\$	167,311
AHVH	AHVH-WNDY	Variable, winter day	\$/kWh	0.0299	142,604,588	\$	4,263,877
AHVH	AHVH-WNNT	Variable, winter night	\$/kWh	0.0018	65,636,134	\$	118,145
AHVH	AHVH-DAMD	Demand	\$/kVA/day	0.2096	36,530,359	\$	7,656,763
AHVH	AHVH-DEXA	Excess demand	\$/kVA/day	0.4851	218,681	\$	106,082

Appendix 9: Northern non-standard charges for the 2011 assessment period

	P i,2011 Q i,2010
Sum	\$ 1,871,240

Non-standard									
Price plan	Code	Description	Units	Pi,2011	Q1,2010	Pi,2011 Qi,2010			
WN01			\$/year	338,428.6100	1	\$	338,429		
WN02			\$/year	91,680.0000	1	\$	91,680		
WN03			\$/year	164,518.7000	1	\$	164,519		
WN04			\$/year	158,193.6800	1	\$	158,194		
WN05			\$/year	21,925.9700	1	\$	21,926		
WN06			\$/year	244,495.8300	1	\$	244,496		
WN07			\$/year	579,341.4200	1	\$	579,341		
WN08			\$/year	14,899.4400	1	\$	14,899		
WN09			\$/year	-	1	\$			
WN10			\$/year	257,756.2300	1	\$	257,756		



Appendix 10: Auckland non-standard charges for the 2011 assessment period

 Pi,2011 Qi,2010

 Sum
 \$ 20,184,560

Price plan	Code	Description	Units	Pi,2011	Q1,2010		,2011 Q1,2010
AN01			\$/year	158,661.0900	1	\$	158,661
AN02			\$/year	131,045.6800	1	\$	131,046
AN03			\$/year	1,089,104.0400	1	\$	1,089,104
AN04			\$/year	89,186.8500	1	\$	89,187
AN05		7105	\$/year	97,366.3900	1	\$	97,366
AN06			\$/year	64,800.0000	1	\$	64,800
AN07			\$/year	974,408.4100	1	\$	974,408
AN08			\$/year	218,811.6800	1	\$	218,812
AN09			\$/year	-	1	\$	-
AN10			\$/year	31,773.2400	1	\$	31,773
AN11			\$/year	567,232.0900	1	\$	567,232
AN12	1,000,000		\$/year	226,121.1700	1	\$	226,121
AN13			\$/year	820,290.7300	1	\$	820,291
AN14			\$/year	305,046.1100	1	\$	305,046
AN15		20 1079 10	\$/year	852,480.2700	1	\$	852,480
AN16			\$/year	1,022,941.0700	1	\$	1,022,941
AN17			\$/year	3,587,303.3900	1	\$	3,587,303
AN18			\$/year	388,968.1700	1	\$	388,968
AN19			\$/year	346,172.5500	1	\$	346,173
AN20	ACTIVISES AND	WARE TO SEE	\$/year	198,233.3400	1	\$	198,233
AN21			\$/year	221,395.0200	1	\$	221,395
AN22	2.7		\$/year	475,862.6500	1	\$	475,863
AN23			\$/year	163,259.1600	1	\$	163,259
AN24			\$/year	230,033.4800	1	\$	230,033
AN25			\$/year	625,906.4400	1	\$	625,906
AN26			\$/year	1,966,967.2800	1	\$	1,966,967
AN27			\$/year	723,894.5800	1	\$	723,895
AN28			\$/year	-	1	\$	-
AN29			\$/year	239,830.2200	1	\$	239,830
AN30			\$/year	-	1	\$	-
AN31		Electric and the second and the seco	\$/year	323,232.9400	1	\$	323,233
AN32	ė.		\$/year	475,594.9400	1	\$	475,595
AN33			\$/year	48,188.5100	1	\$	48,189
AN34			\$/year	559,548.5400	1	\$	559,549
AN35			\$/year	-	1	\$	
AN36			\$/year	168,363.4100	1	\$	168,363
AN37			\$/year	-	1	\$	-
AN38			\$/year	-	1	\$	-
AN39			\$/year		1	\$	-
AN40			\$/year	_	1	\$	
AN41			\$/year		1	\$	
AN42		35/3/11	\$/year	843,7357	1	\$	844
ASL1			\$/year	1,614,940.1670	1	\$	1,614,940
ASL2			\$/year	1,176,752.7000	1	\$	1,176,753



Appendix 11: Consumer price index

Consumers Price Index

Tradables, non-tradables and all groups – index numbers and percentage changes (1)(2)

Base: June 2006 quarter (=1000)

		Tradables ⁽³⁾⁽⁴⁾			Non-tradables(5)			All groups(3)		
		Percentage change		Percentage change					Percentage change	
		Index	From previous	From same quarter of	Index	From previous	From same quarter of previous year	Index	From	From same quarter of
					index			IIIUGA	previous	
			quarter	previous year		quarter			quarter	previous year
Serie	s ref: CPIQ	SE9NS6000			SE9NS6500	1.32		SE9A		
Quart		050	0.0	0.0	040	4.4	4.5	928	0.4	1.5
2004		950	-0.6	-2.3	912	1.1	4.5 4.7	935	0.4	2.4
	Jun	956	0.7	-0.7	920	0.9	4.7	935	0.6	2.4
	Sep	956	0.0	0.0	930	1.0	4.3	949	0.0	2.7
,	Dec	962	0.7	0.7	940	1.1	4.3	949	0.9	2.1
2005	Mar	958	-0.5	0.8	950	1.1	4.2	953	0.4	2.8
	Jun	963	0.6	0.7	961	1.1	4.4	962	0.9	2.8
	Sep	974	1.1	1.9	971	1.1	4.4	973	1.1	3.4
	Dec	979	0.5	1.7	980	1.0	4.3	979	0.7	3.2
	2.2	070	0.4	0.4	000	4.0	4.4	005	0.6	3.3
2006		978	-0.1	2.1	990	1.0	4.1	985		
	Jun	1000	2.3	3.8	1000	1.0	4.1	1000	1.5	4.0
	Sep	1003	0.3	3.0	1010	1.0	4.0	1007	0.7	3.5
-	Dec	990	-1.3	1.2	1018	8.0	3.8	1005	-0.2	2.6
2007	Mar	986	-0.4	0.9	1030	1.2	4.1	1010	0.5	2.5
	Jun	995	0.9	-0.5	1041	1.1	4.1	1020	1.0	2.0
	Sep	1000	0.5	-0.3	1047	0.6	3.7	1025	0.5	1.8
	Dec	1018	1.8	2.8	1054	0.7	3.5	1037	1.2	3.2
•				12.2		6.12	12/12			
2008		1020	0.2	3.4	1066	1.1	3.5	1044	0.7	3.4
	Jun	1043	2.3	4.8	1076	0.9	3.4	1061	1.6	4.0
	Sep	1063	1.9	6.3	1090	1.3	4.1	1077	1.5	5.1
,	Dec	1041	-2.1	2.3	1099	8.0	4.3	1072	-0.5	3.4
2009	Mar	1037	-0.4	1.7	1107	0.7	3.8	1075	0.3	3.0
	Jun	1045	0.8	0.2	1112	0.5	3.3	1081	0.6	1.9
	Sep	1062	1.6	-0.1	1123	1.0	3.0	1095	1.3	1.7
	Dec	1057	-0.5	1.5	1124	0.1	2.3	1093	-0.2	2.0
7							1.000			
2010		1058	0.1	2.0	1130	0.5	2.1	1097	0.4	2.0
	Jun	1055	-0.3	1.0	1137	0.6	2.2	1099	0.2	1.7
	Sep	1065	0.9	0.3	1151	1.2	2.5	1111	1.1	1.5
	Dec	1092	2.5	3.3	1176	2.2	4.6	1137	2.3	4.0
2011	Mar	1097	0.5	3.7	1189	1.1	5.2	1146	0.8	4.5
	Jun	1113	1.5	5.5	1196	0.6	5.2	1157	1.0	5.3
	Sep	1114	0.1	4.6	1203	0.6	4.5	1162	0.4	4.6
	Dec	1104	-0.9	1.1	1205	0.2	2.5	1158	-0.3	1.8
,										
2012	Mar	1100	-0.4	0.3	1219	1.2	2.5	1164	0.5	1.6

⁽¹⁾ Percentage changes are calculated from index numbers that are not rounded until the June 2006 quarter.

$$\Delta CPI_{2011} = \frac{CPI_{Dec,2009} + CPI_{Mar,2010} + CPI_{Jun,2010} + CPI_{Sep,2010}}{CPI_{Dec,2008} + CPI_{Mar,2009} + CPI_{Jun,2009} + CPI_{Sep,2009}} -1$$

$$\Delta CPI_{2011} = \frac{1093 + 1097 + 1099 + 1111}{1072 + 1075 + 1081 + 1095} -1$$





⁽²⁾ Five decimal places have been retained prior to the June 2006 quarter to preserve percentage changes that were originally published o expression bases.

⁽³⁾ From the September 2006 quarter, prices for fresh fruit and vegetables are not seasonally adjusted. They were seasonally adjusted un June 2006 quarter.

⁽⁴⁾ Tradables are goods and services that are imported or that are in competition with foreign goods and services either in domestic or fore

⁽⁵⁾ Non-tradables are goods and services that do not face foreign competition.