

EnergyTrendz WEEKLY

Week ending 18 September 2022

Issue 1323

A weekly review of New Zealand electricity markets compiled by Energy Link Ltd

Prices:

South Island	BEN			ISL		
	18-Sep-22	11-Sep-22	Change	18-Sep-22	11-Sep-22	Change
Average Prices	62.59	78.38	↓ -20%	66.84	84.49	↓ -21%
Ratio Day/Night	1.04	1.46	↓ -29%	1.04	1.46	↓ -29%
Ratio Week/Other Day	0.85	2.86	↓ -70%	0.86	2.91	↓ -70%

Key (Week Difference)

↑	>=	10%
↗	>=	5%
→	>=	0%
↘	<=	-5%
↓	<=	-10%

North Island	HAY			OTA		
	18-Sep-22	11-Sep-22	Change	18-Sep-22	11-Sep-22	Change
Average Prices	65.93	84.47	↓ -22%	71.39	93.63	↓ -24%
Ratio Day/Night	1.07	1.49	↓ -29%	1.12	1.51	↓ -26%
Ratio Week/Other Day	0.87	2.94	↓ -70%	0.92	3.02	↓ -70%

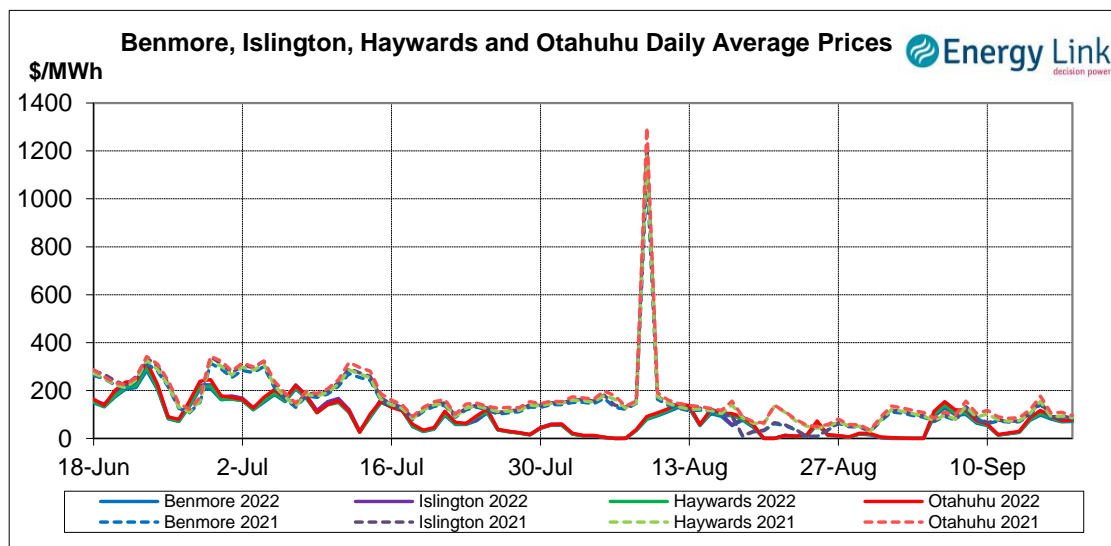
Price Differences	OTA-BEN			HAY-BEN		
	18-Sep-22	11-Sep-22	Change	18-Sep-22	11-Sep-22	Change
Average differences	8.80	15.25	↓ -42%	3.34	6.09	↓ -45%

All Prices are Final Prices

Price Highlights:

	Price \$/MWh	Day	Location	Period
Maximum nodal price	\$674.24	Thursday, 15 September 2022	Maungaturoto	16
Minimum nodal price	\$0.00	Monday, 12 September 2022	Reefton	01
Maximum Ben_Hay differential	\$51.73	Thursday, 15 September 2022		16
Maximum NI reserve price	\$360.88	Thursday, 15 September 2022		16

Please note: Any Provisional Prices are not included in Price Highlights



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Average Wholesale Spot Prices

Date	Benmore (\$/MWh)		Islington (\$/MWh)		Haywards (\$/MWh)		Otahuhu (\$/MWh)	
	Day	Night	Day	Night	Day	Night	Day	Night
18/09/2022	76.93	58.35	81.77	61.76	80.16	59.66	84.43	61.06
17/09/2022	66.11	75.29	70.06	79.83	69.24	77.21	73.83	77.25
16/09/2022	81.92	77.34	87.58	82.08	87.57	80.01	95.57	85.60
15/09/2022	88.77	115.41	94.65	124.03	96.66	122.01	110.03	130.69
14/09/2022	71.38	83.52	76.93	89.58	75.85	84.95	85.11	88.25
13/09/2022	35.97	4.02	38.61	4.31	37.45	4.09	41.87	4.50
12/09/2022	22.63	13.07	24.37	14.04	24.38	14.02	27.58	15.10

Note: Night: 00:00 – 08:00 and Day 08:00 – 24:00

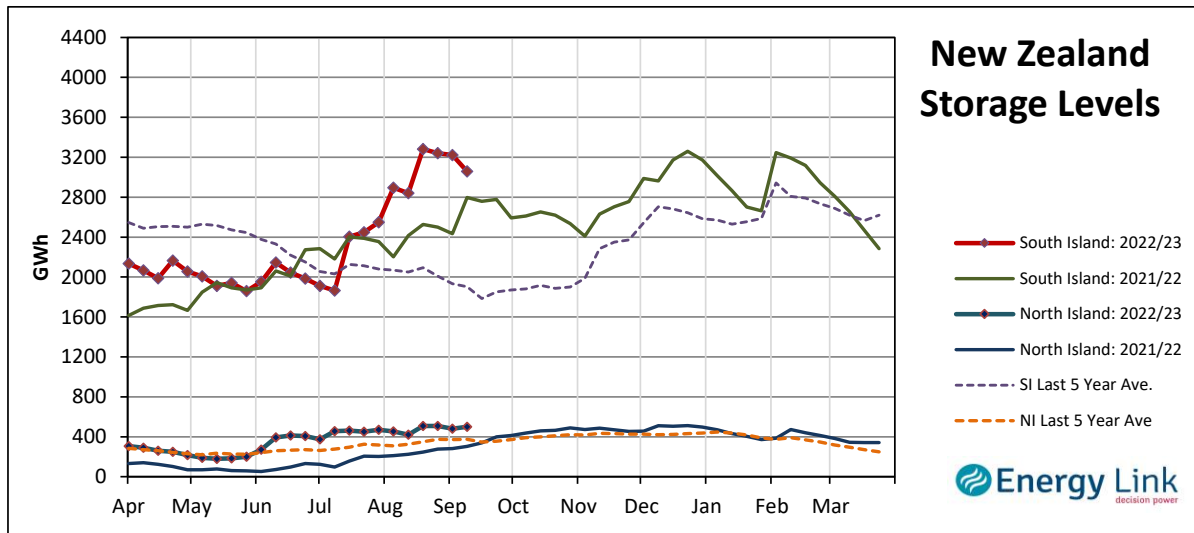
Indicator (\$/MWh)	Benmore	Movement	Islington	Movement	Haywards	Movement	Otahuhu	Movement
Average August 22 Price	40.34	-	43.56	-	44.04	-	47.83	-
Average September 22 Price	54.89	-	58.92	-	58.73	-	64.46	-
4 Week Moving Average Price	40.68	5.9%	43.67	5.6%	43.77	2.1%	48.15	1.5%
Weekly Average Price	62.59	-20.1%	66.84	-20.9%	65.93	-21.9%	71.39	-23.8%
Weekday Day Average Price	60.14	-44.1%	50.57	-51.6%	64.38	-44.9%	72.03	-44.7%
Weekday Night Average Price	58.67	-20.3%	48.20	-23.2%	61.02	-22.2%	64.83	-25.2%
Weekend Day Average Price	71.52	89.3%	78.82	30.0%	74.70	87.0%	79.13	81.3%
Weekend Night Average Price	66.82	162.5%	80.95	25.7%	68.44	159.0%	69.16	150.9%
Day - Night Differential	1.04	-29.1%	1.04	-29.0%	1.07	-28.6%	1.12	-25.9%
Weekday - Weekend Differential	0.85	-70.2%	0.86	-70.5%	0.87	-70.3%	0.92	-69.6%

Note: Movement represents difference from last week.

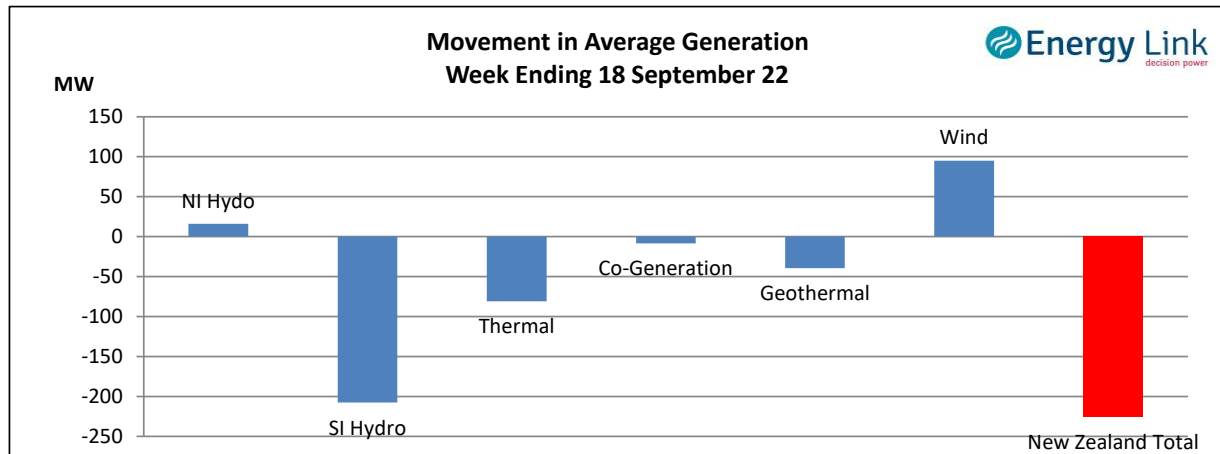
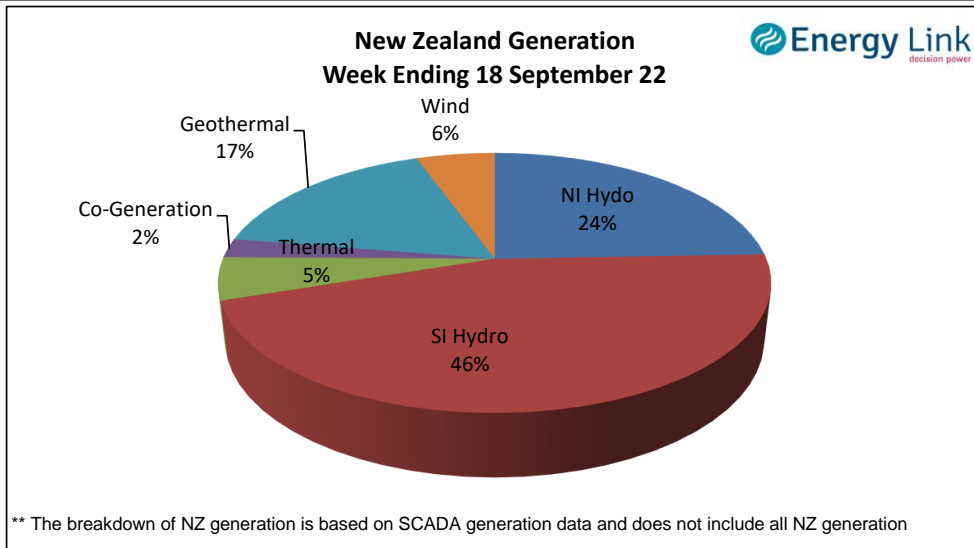
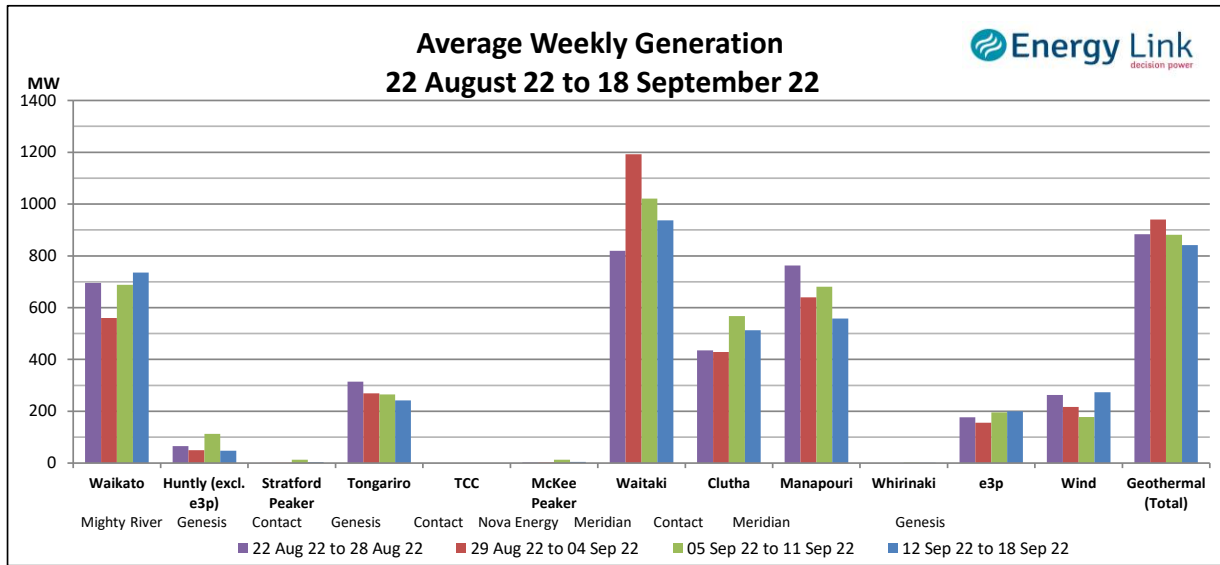
Storage: (as at last Thursday)

Total Storage decreased to 3560 GWh.

NI storage increased by 4% to 500 GWh while SI storage decreased by 5% to 3060 GWh.



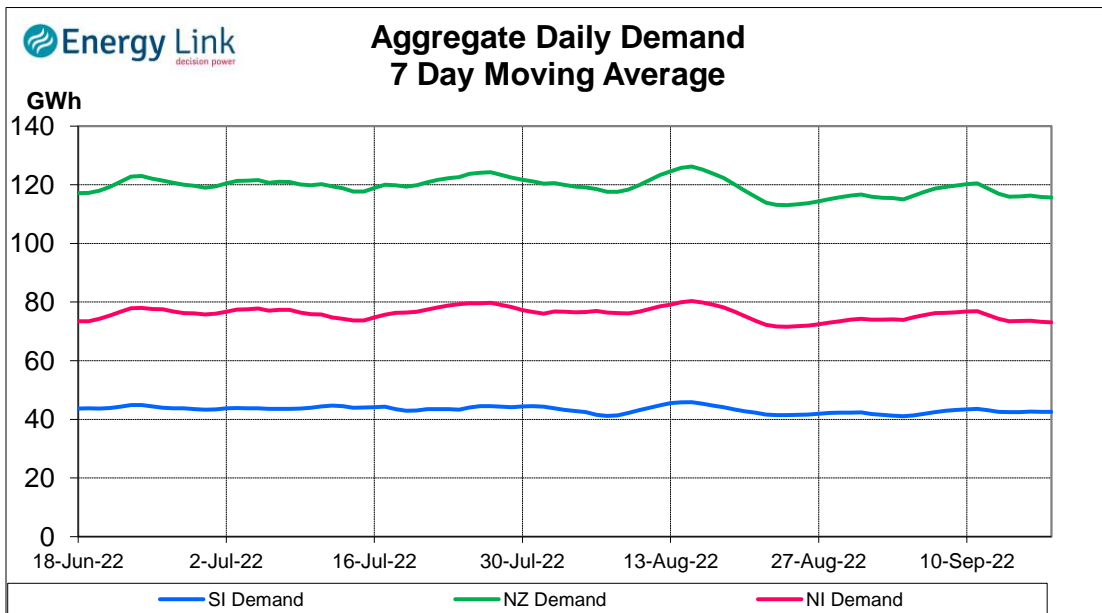
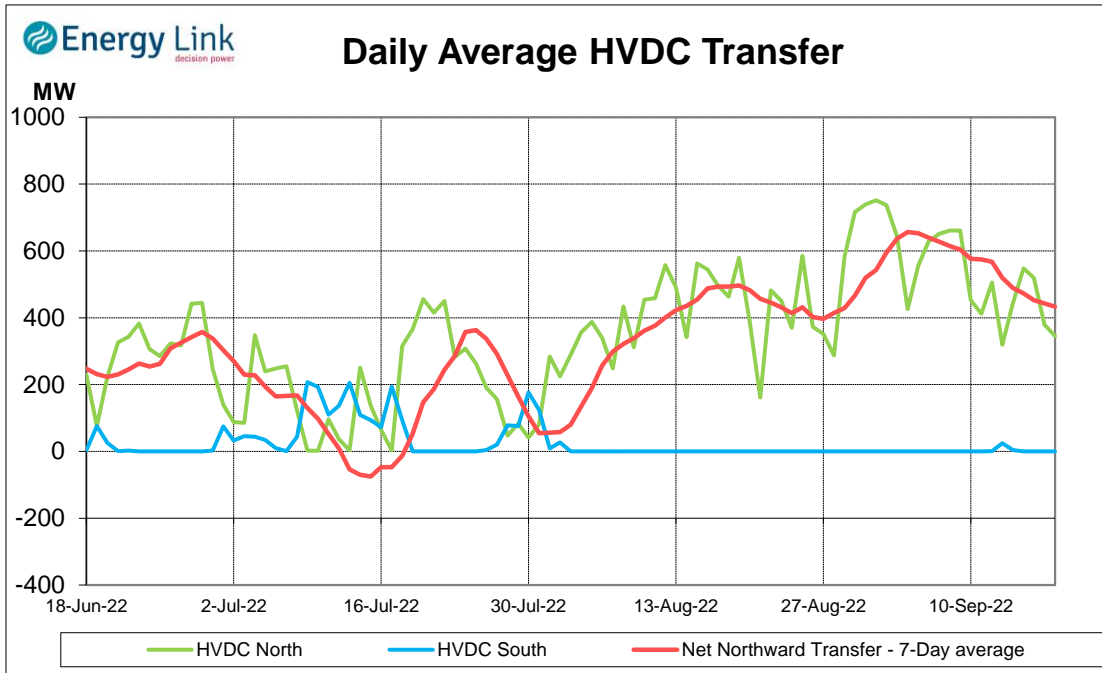
Generation:



Average Generation Market Share ¹

Contact	Mercury	Genesis	Meridian	Manawa	Other
19% (20%)	25% (22%)	16% (16%)	33% (34%)	3% (3%)	4% (4%)

¹ Generation market share figures are based on SCADA data. The number in brackets represents the generation market share % from the previous week.

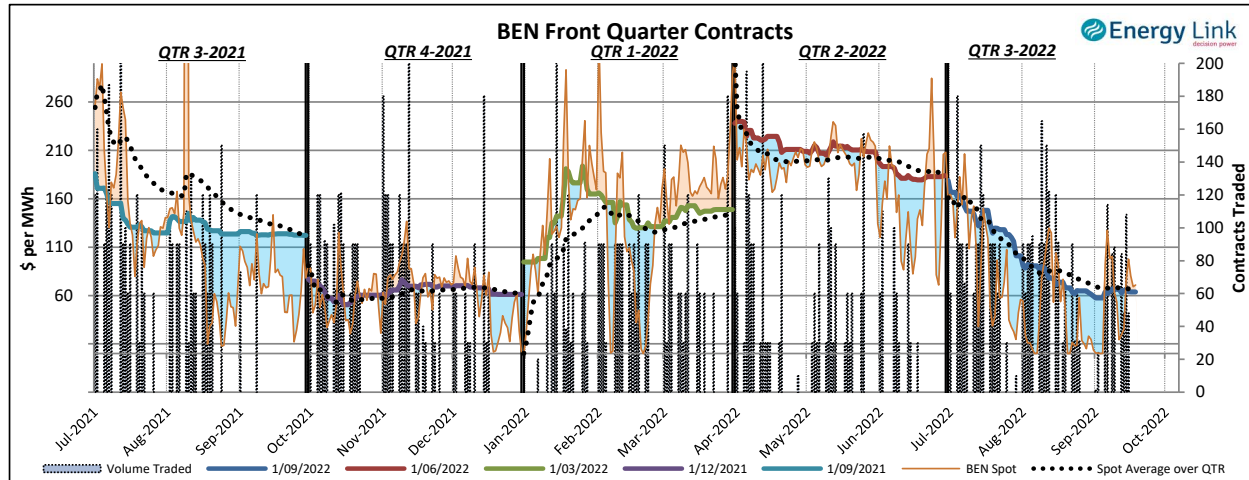
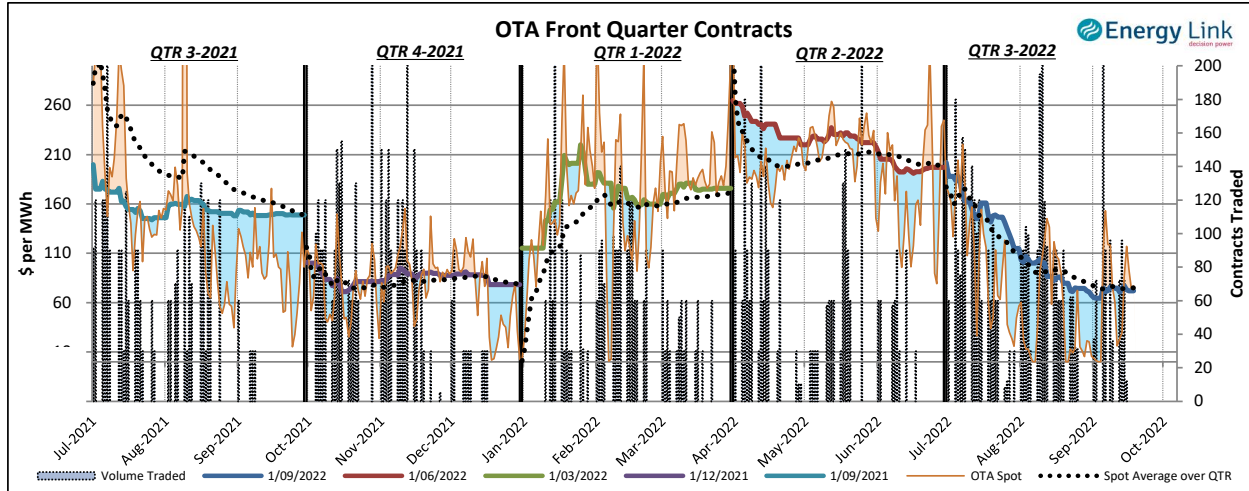


Demand data based on un-reconciled SCADA data.

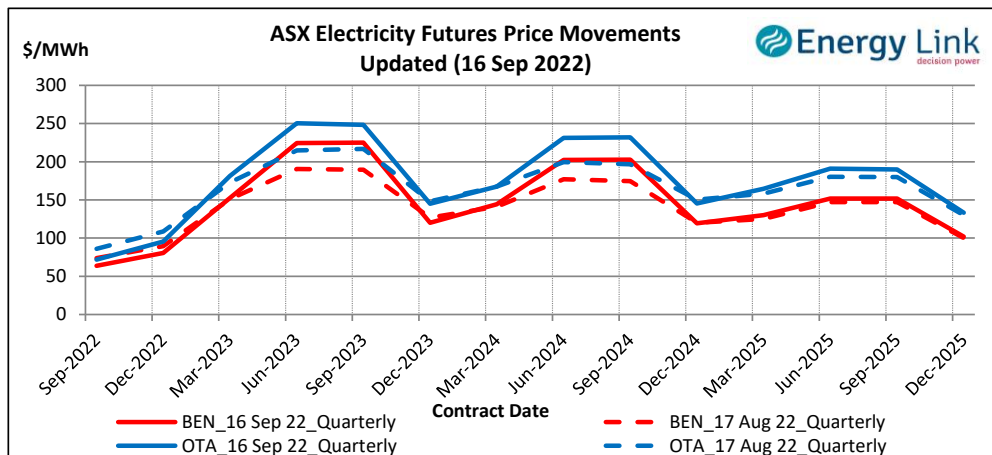
ASX Electricity Futures

The **Australian Securities Exchange (ASX)** listed Base Load Electricity Futures, Strip Futures and Calendar year Strip Options for two grid reference points (Otahuhu and Benmore) in the New Zealand electricity market in July 2009. The ASX New Zealand Electricity Futures contracts are cash settled using the arithmetic average of half-hourly prices at the designated node over the period of a calendar quarter.

The two charts below display the price movements of the front quarter futures contract during the current quarter and for the four quarters prior to the current quarter. Also shown is the volume of contracts traded, the relevant spot price and the spot average price over the quarter during the time when each contract was the front quarter contract.



The chart to the right shows the most recent transactions for all currently traded futures contracts at both the BEN & OTA nodes. For comparison these prices are mapped against the prices for the same contracts four weeks prior to the current Market Review.



Carbon Dioxide Emissions

The chart below shows the estimated Carbon Dioxide (CO₂) emissions for New Zealand's major thermal power stations. The estimates are based on weekly generation output and assumptions on each plant's thermal efficiency.

Note: Since 22 Feb 2016, Geothermal plant is now also included in the total carbon emissions.

