

*Contact*™

## **Monthly Operational Data**

**For the month ended 31 January 2016**

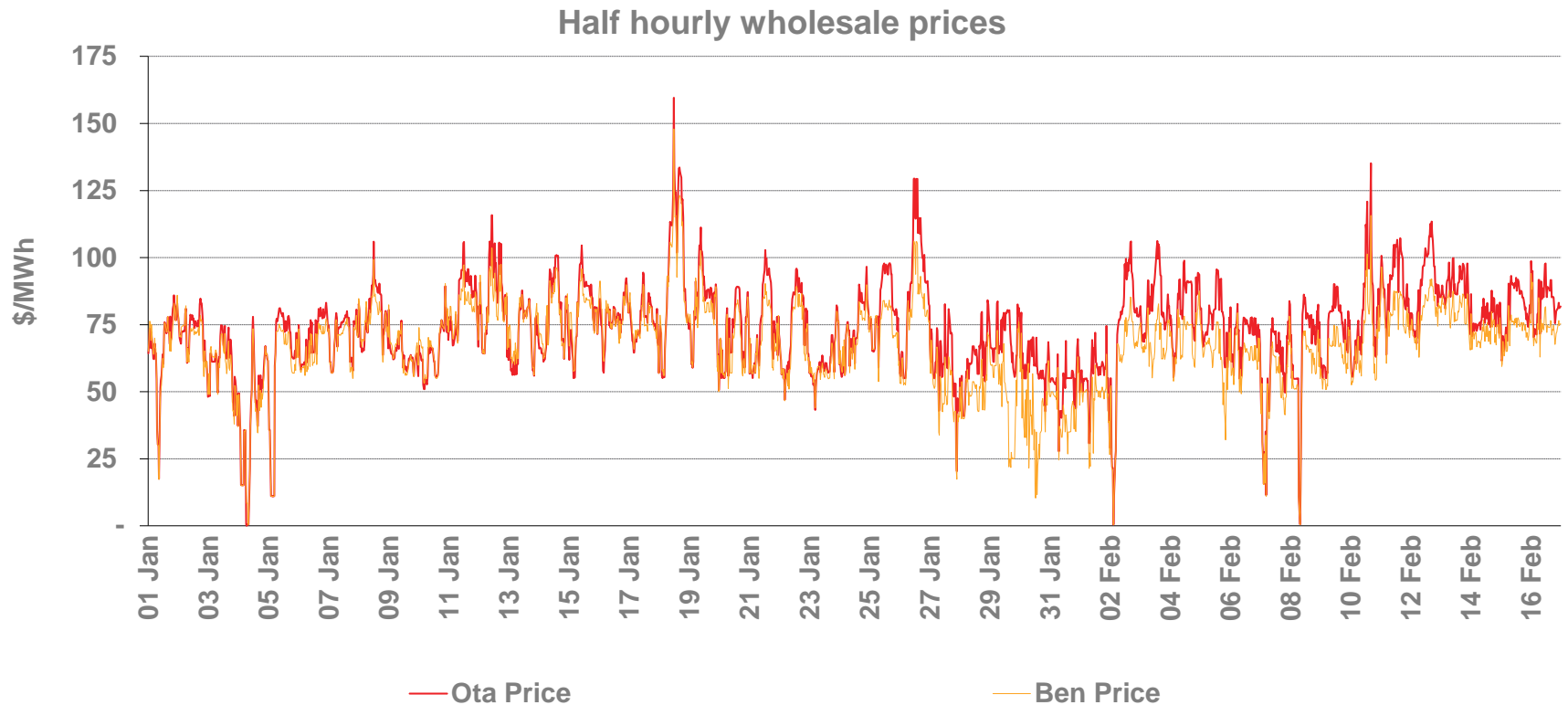


# Highlights for January 2016

- **Average Otahuhu wholesale price for January 2016: \$72/MWh (p3)**
- **Hydro storage as at 31 January: South Island 93% of mean, North Island 118% of mean (p4)**
- **Otahuhu futures settlement wholesale price for 1<sup>st</sup> quarter 2016 (ASX) (p4):**
  - As at 16 February: \$75/MWh
  - As at 31 January: \$75/MWh
  - As at 31 December: \$79/MWh

# Wholesale electricity prices

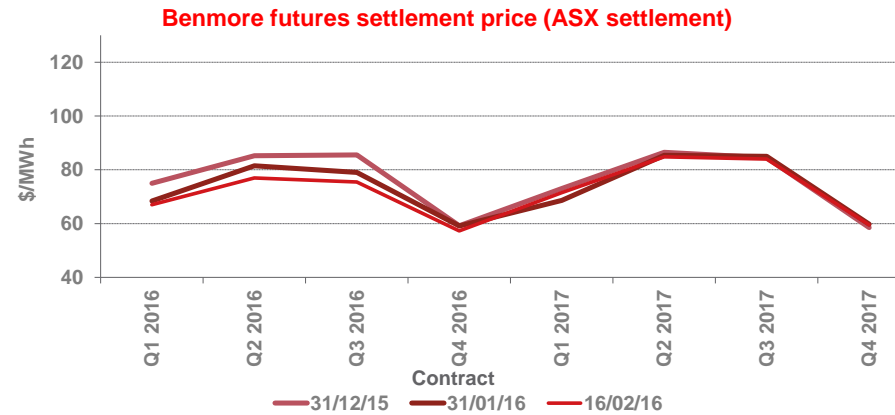
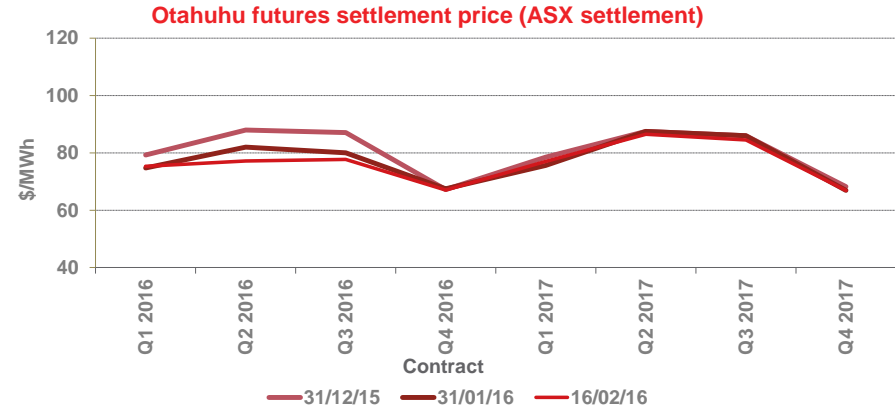
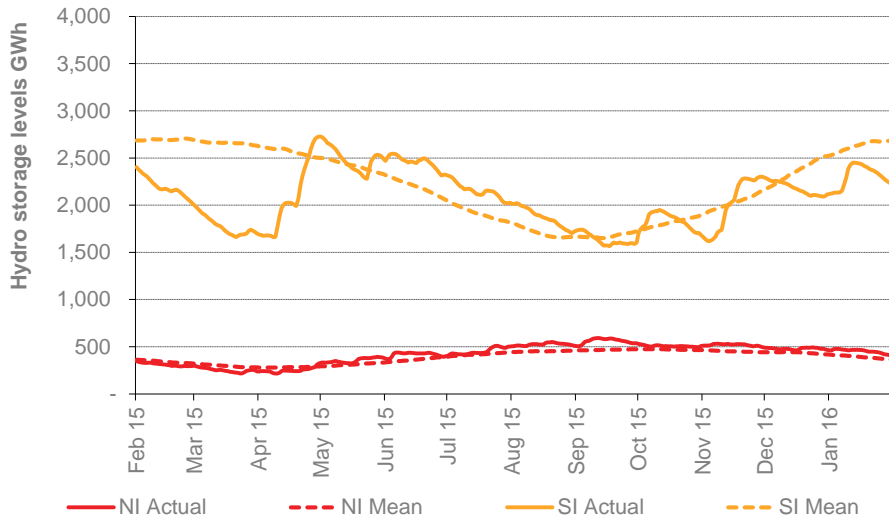
- The average price at Otahuhu (North Island) for January 2016 was \$72/MWh while the average price at Benmore (South Island) was \$67/MWh.



# Storage levels and wholesale electricity prices

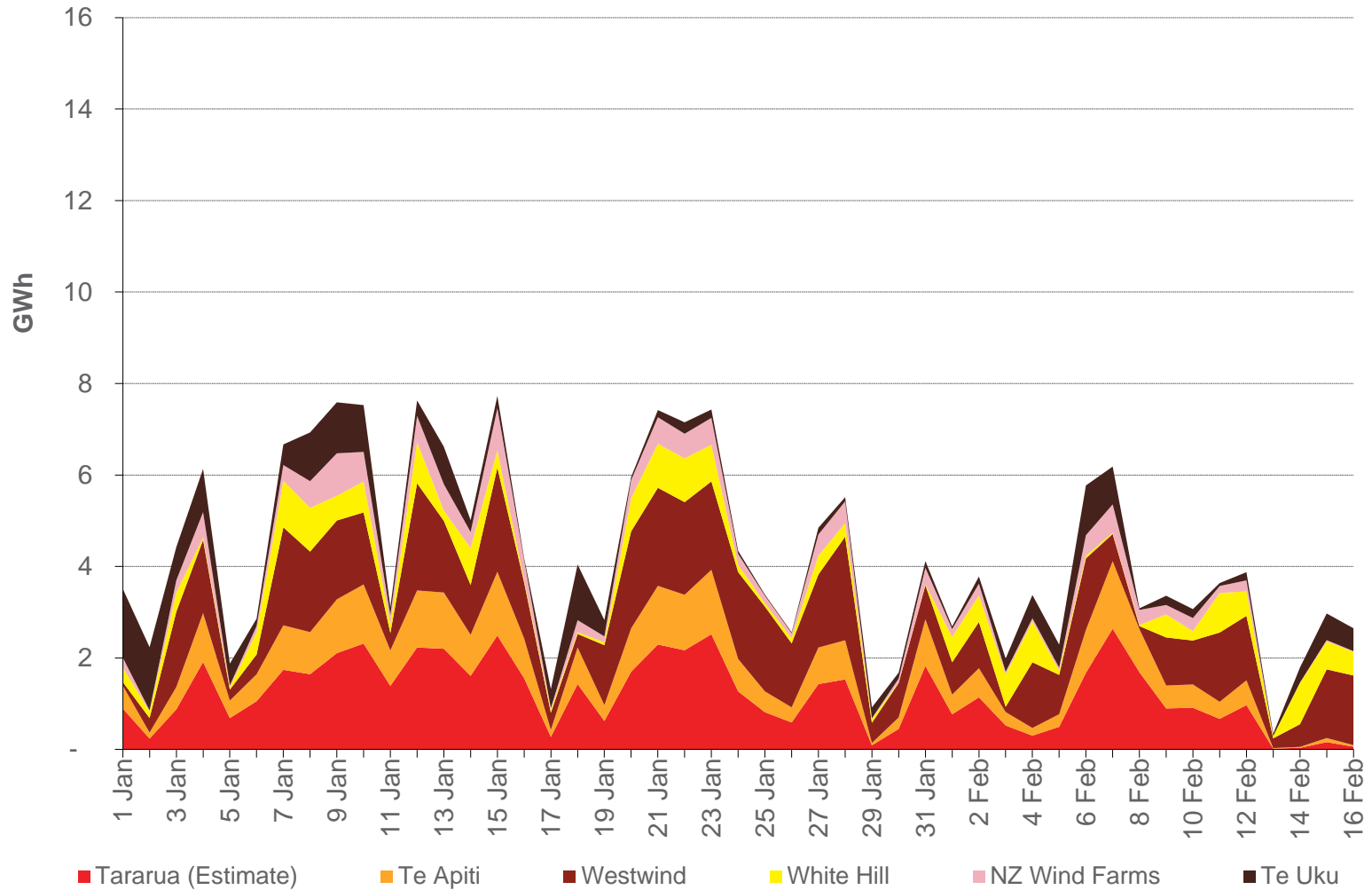
- At 31 January, South Island storage was 93% of mean (31 December: 94%) and North Island storage was 118% of mean (31 December: 105%)
- As at 17 February 2016, storage was:
  - South Island: 83% of mean
  - North Island: 111% of mean

Hydro storage



# Wind generation

### Daily wind generation (SCADA)

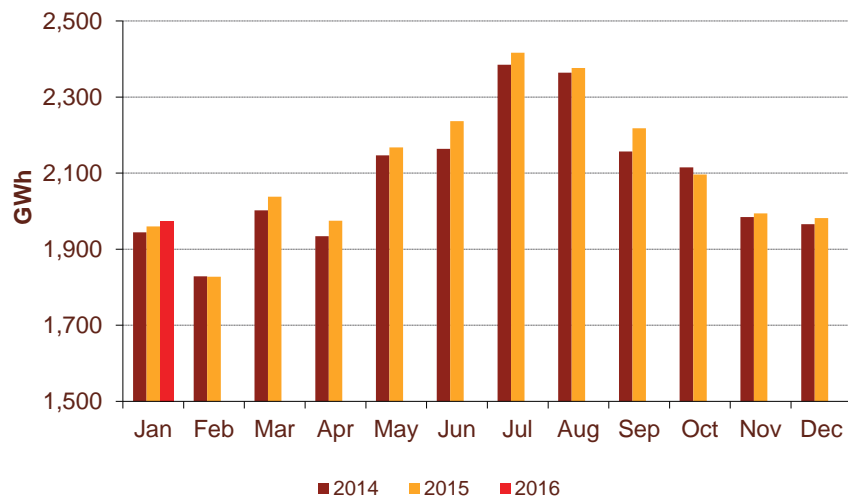


# Monthly demand comparison

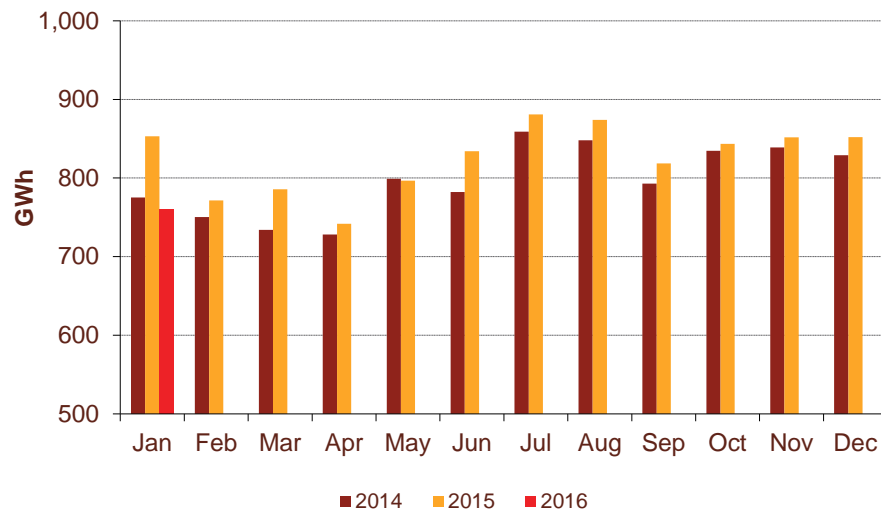
- NIWA's national climate summary for January 2016 reports:
  - The New Zealand national average temperature in January was 17.6°C (0.6°C above the 1981-2010 average)

Demand	January demand GWh			Growth rate % p.a.		12 months to date GWh			Growth rate % p.a.	
	2016	2015	2014	1 year	2 year	2016	2015	2014	1 year	2 year
North Island	1,841	1,837	1,790	0.2%	1.4%	23,649	23,379	23,128	1.2%	1.1%
South Island excluding Tiwai	727	834	752	(12.8%)	(1.7%)	9,240	9,235	8,979	0.1%	1.4%
<b>Total</b>	<b>2,568</b>	<b>2,672</b>	<b>2,542</b>	<b>(3.9%)</b>	<b>0.5%</b>	<b>32,888</b>	<b>32,614</b>	<b>32,107</b>	<b>0.8%</b>	<b>1.2%</b>

North Island



South Island excluding Tiwai



# Contact Netback, Cost of Energy and LPG Data

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January 2016

Data	Measure	The month ended January 2016	The month ended January 2015	The month ended December 2015	Seven months ended January 2016	Seven months ended January 2015	
Netback	Mass market electricity sales	GWh	251	276	278	2,303	2,343
	Commercial & industrial electricity sales	GWh	344	390	327	2,318	2,639
	Retail gas sales	GWh	26	25	37	403	392
	Steam sales	GWh	59	61	67	436	437
	Total retail sales	GWh	681	751	709	5,461	5,811
	Average electricity sales price	\$/MWh	170.33	167.65	169.85	179.88	178.83
	Electricity direct pass through costs	\$/MWh	(74.42)	(69.80)	(74.76)	(76.69)	(74.48)
	Electricity and gas cost to serve	\$/MWh	(13.94)	(14.88)	(11.61)	(13.78)	(12.43)
	Netback	\$/MWh	77.15	77.60	78.28	81.33	83.34
	Electricity line losses	%	4%	5%	3%	5%	6%
	Retail gas sales	PJ	0.1	0.1	0.1	1.4	1.3
	Electricity customer numbers <sup>1</sup>	#	420,500	432,500	421,000		
	Gas customer numbers <sup>1</sup>	#	60,500	61,500	60,500		
Cost of energy	Thermal generation	GWh	90	98	56	1,126	1,264
	Geothermal generation	GWh	295	294	290	1,918	1,772
	Hydro generation	GWh	252	324	366	2,262	2,491
	Spot market generation	GWh	638	716	712	5,306	5,528
	Spot electricity purchases	GWh	609	688	614	4,794	5,207
	CfD sales	GWh	8	(5)	1	47	20
	GWAP	\$/MWh	67.83	97.26	68.35	59.01	70.33
	LWAP	\$/MWh	(73.36)	(105.26)	(76.04)	(63.74)	(76.14)
	LWAP/GWAP	%	108%	108%	111%	108%	108%
	Gas used in internal generation	PJ	1.1	1.2	0.8	10.9	12.1
	Wholesale gas sales	PJ	0.0	0.2	0.0	0.1	1.4
	Gas storage net movement	PJ	0.0	(0.1)	(0.1)	(1.9)	(0.2)
	Unit generation cost	\$/MWh	(30.05)	(34.18)	(26.30)	(34.52)	(38.09)
	Cost of energy	\$/MWh	(32.28)	(33.95)	(19.75)	(33.15)	(36.72)
LPG	LPG sales	tonnes	4,269	5,829	5,327	41,648	43,269
	LPG customer numbers (includes franchises) <sup>1</sup>	#	73,000	68,500	72,500		

<sup>1</sup> Data has been rounded to the nearest 500 and reflects numbers as at month end.