



# **MONTHLY OPERATING REPORT**



**DECEMBER 2019** 



## DECEMBER HIGHLIGHTS

In the month to 13 January 2020, national hydro storage decreased from 175% to 123% of historical average

South Island storage sat at 121% of average and North Island storage at 132% of average on 13 January 2020

Meridian's December 2019 monthly total inflows were 204% of historical average

Meridian's Waitaki catchment storage at the end of December 2019 was 136% of historical average

Storage in Meridian's Waiau catchment was well above average at the end of December 2019

National electricity demand in December 2019 was 4.9% higher than the same month last year

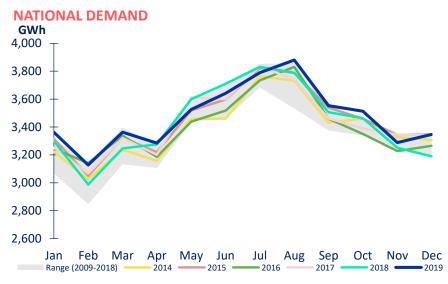
Meridian made calls under the Genesis Swaption in early January 2020 December 2019 saw wet and cool South Island conditions, while the North Island was warmer and drier than average

New Zealand Aluminium Smelter's load during December 2019 was below the contract level of 622MW

Meridian's New Zealand retail sales volumes in December 2019 were 45.0% higher than December 2018

### **MARKET DATA**

- National electricity demand in December 2019 was 4.9% higher than the same month last year
- December 2019 saw wet and cool South Island conditions, while the North Island was warmer and drier than average
- Demand in the last 12 months was 1.3% higher than the preceding 12 months
- New Zealand Aluminium Smelter's load during December 2019 was below the contract level of 622MW
- 12-month average switching rate of customers changing retailers but not moving ("trader" switch) was 6.9% at the end of November 2019
- 12-month average switching rate of customers moving and changing retailers ("move-in" switch) was 13.3% at the end of November 2019



Source: Electricity Authority

#### MARKET ICP SWITCHING (ALL RETAILERS)



Source: Electricity Authority

### **MARKET DATA**

**OTAHUHU ASX FUTURES SETTLEMENT PRICE** 

\$/MWh

28 June 2019

31 October 2019

- December 2019 saw declines in near-term **ASX** prices
- National storage decreased from 175% of average on 10 December 2019 to 123% of average on 13 January 2020
- South Island storage decreased to 121% of historical average on 13 January. North Island storage increased to 132% of average

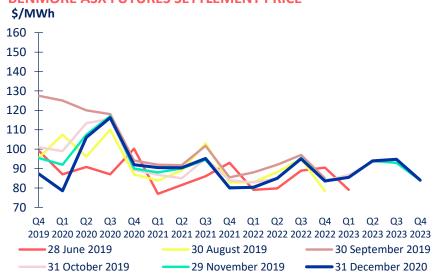
#### 6,000 5,000 4,000 3,000 2,000 1,000 0 Feb Mar Apr May Jun Jul Aug Sep 1992 2004 86yr Average 2008 2012 2018 2019 2020 Source: NZX BENMORE ASX FUTURES SETTLEMENT PRICE

**NATIONAL HYDRO STORAGE (13 January 2020)** 

### 160 150 140 130 120 110 100 90 80 70 Q1 Q2 Q3 Q4

30 August 2019

29 November 2019



Source: ASX

30 September 2019

Source: ASX

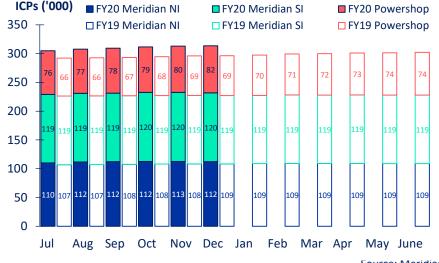
31 December 2020

**GWh** 

### **NEW ZEALAND RETAIL**

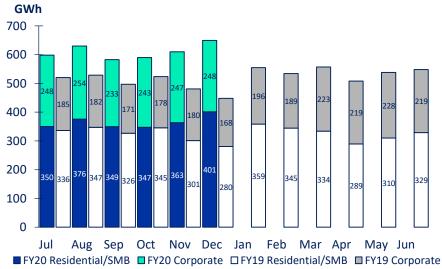
- Meridian's New Zealand customer connection numbers rose 0.1% during December 2019 and have risen 3.7% since June 2019
- Retail sales volumes in December 2019 were 45.0% higher than December 2018
- Compared to December 2018, residential/SMB sales volumes increased by 43.2% (increases in all segments, notably higher Agri sales) and corporate sales volumes increased by 47.9%
- To date this financial year, retail sales volumes are 22.1% higher than the same period last year
- This reflects a 12.9% increase in residential/SMB sales volumes and a 38.7% increase in corporate sales volumes

#### MERIDIAN'S NZ CUSTOMER CONNECTIONS



Source: Meridian

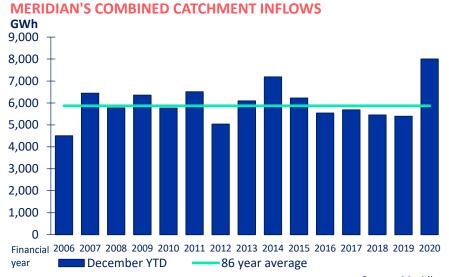
### **MERIDIAN'S RETAIL SALES VOLUMES\***



<sup>\*</sup>excludes volumes sold to New Zealand Aluminium Smelters and CFDs

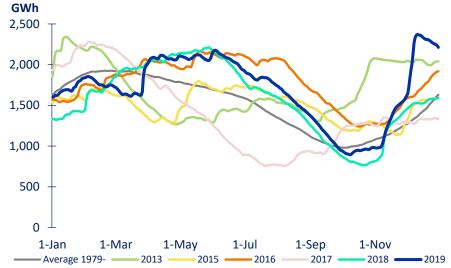
### **NEW ZEALAND STORAGE**

- December 2019 monthly inflows were 204% of historical average
- To date this financial year, inflows are 136% of historical average
- Meridian's Waitaki catchment storage moved from 1,593GWh to 2,213GWh during December 2019
- Waitaki storage at the end of December 2019 was 136% of historical average and 39% higher than the same time last year
- Storage in Meridian's Waiau catchment was also well above average at the end of December 2019



Source: Meridian

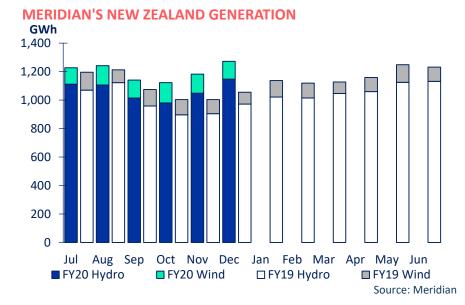
### **MERIDIAN'S WAITAKI STORAGE**



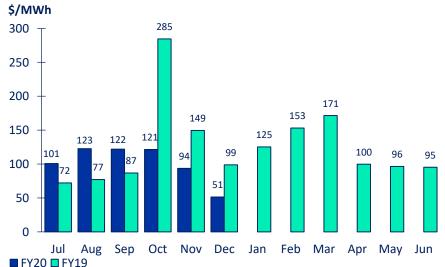
Source: Meridian

### **NEW ZEALAND GENERATION**

- Meridian's New Zealand generation in December 2019 was 20.5% higher than the same month last year, reflecting higher hydro generation and wind generation
- To date this financial year, Meridian's New Zealand generation is 9.8% higher than the same period last year, reflecting higher hydro generation and wind generation
- The average price Meridian received for its generation in December 2019 was 48.0% lower than the same month last year
- The average price Meridian paid to supply customers in December 2019 was 48.5% lower than the same month last year
- To date this financial year, the average price Meridian received for its generation is 18.5% lower than the same period last year and the average price paid to supply customers is 20.8% lower



### MERIDIAN'S AVERAGE GENERATION PRICE\*

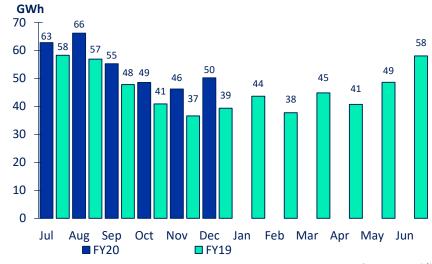


<sup>\*</sup>price received for Meridian's physical generation

### **AUSTRALIAN RETAIL**

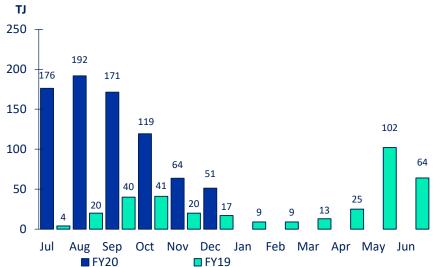
- Australian retail electricity sales volumes in December 2019 were 27.6% higher than the same month last year
- To date this financial year, Australian retail electricity sales volume is 17.6% higher than the same period last year
- Powershop Australia electricity customer connection numbers rose 2.5% during December 2019 and have risen 13.5% since June 2019
- Gas customer connection numbers rose
   4.4% during December 2019, with total sales in the month of 51TJ

#### **AUSTRALIAN RETAIL ELECTRICITY SALES VOLUMES**



Source: Meridian

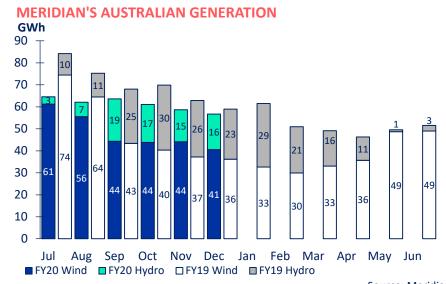
#### **AUSTRALIAN RETAIL GAS SALES VOLUMES**



Source: Meridian

### **AUSTRALIAN GENERATION**

- Meridian's Australian generation in December 2019 was 3.8% lower than the same month last year, reflecting higher wind generation and lower hydro generation
- To date this financial year, Meridian's Australian generation is 12.5% lower than the same period last year, reflecting lower wind generation and lower hydro generation



Source: Meridian

\$112.0

\$99.6

\$104.6

6,408

7,187

\$101.2

891

\$64.5

\$105.8

-\$4.8

779

OCTOBER 6 MONTHS TO

\$130.2

\$118.7

\$112.6

311,694

980

143

1,123

\$121.4

145

\$64.4

\$122.6

-\$1.5

6 MONTHS TO

\$147.7

\$125.9

\$118.8

5,925

**6,546** \$124.2

1,051

\$68.1

\$142.8

10

-\$2.6

621

## **NEW ZEALAND**

Cost to supply retail customers (\$NZ/MWh)

Cost of financial contracts (\$NZ/MWh)

**New Zealand generation** 

New Zealand hedging
Hedging volume<sup>6</sup> (GWh)

Hedging costs (\$NZ/MWh)

Future contract close outs (\$NZ m)

Hydro generation volumes (GWh)

Wind generation volumes (GWh)

**Total generation volumes (GWh)** 

Average generation price<sup>5</sup> (\$NZ/MWh)

Hedging spot revenue average price (\$NZ/MWh)

Meridian Energy Limited Monthly Operating Report for December 2019

Total New Zealand customer connections<sup>4</sup>

Cost to supply wholesale customers (\$NZ/MWh)

	2019 MONTH	2018 MONTH	2019 MONTH	2019 MONTH	DECEMBER 2019	DECEMBER 2018
New Zealand sales						
Retail contracted sales volume (GWh)	650	448	610	590	3,661	2,999
Average retail contracted sales price <sup>1</sup> (\$NZ/MWh)	\$100.0	\$95.6	\$99.8	\$102.7	\$106.8	\$104.1
NZAS sales volume (GWh)	463	463	448	463	2,746	2,608
Financial contract sales volumes <sup>2</sup> (GWh)	164	217	135	129	902	1,234
Avg. wholesale & financial contracts sales price <sup>3</sup> (\$NZ/MWh)	\$62.3	\$68.9	\$65.3	\$67.0	\$67.3	\$64.7
Retail customer supply volumes (GWh)	669	468	650	623	3,829	3,160

\$115.5

\$98.1

\$116.5

296,583

972

83

1,055

\$98.8

177

\$61.7

\$104.6

-\$0.5

15 January 2020

\$112.7

\$89.6

\$92.8

1,049

1,182

\$93.7

148

\$67.3

\$104.1

-\$0.2

133

313,150

**DECEMBER** 

\$57.1

\$45.4

\$81.6

1,147

1,272

\$51.4

182

\$64.4

\$63.1

-\$0.9

125

313,599

DECEMBER NOVEMBER

# **AUSTRALIA**

	DECEMBER 2019 MONTH	DECEMBER 2018 MONTH	NOVEMBER 2019 MONTH	OCTOBER 2019 MONTH	6 MONTHS TO DECEMBER 2019	6 MONTHS TO DECEMBER 2018
Australian contracted sales						
Retail contracted electricity sales volume (GWh)	50	39	46	49	329	280
Average electricity contracted sales price <sup>1</sup> (\$A/MWh)	\$161.1	\$165.9	\$174.0	\$168.0	\$153.9	\$157.8
Retail contracted gas sales volume (TJ)	51	17	64	119	773	143
Average gas contracted sales price <sup>1</sup> (\$A/GJ)	\$20.0	\$24.7	\$18.9	\$13.8	\$14.6	\$17.0
Financial contract sales volumes <sup>2</sup> (GWh)	68		63	65	353	
Financial contracted sales average price (\$A/MWh)	\$79.2		\$80.1	\$80.1	\$82.8	
Cost to supply electricity customers (\$A/MWh)	\$82.2	\$111.4	\$89.2	\$119.9	\$108.1	\$108.8
Cost to supply gas customers (\$A/GJ)	\$9.9	\$14.0	\$14.0	\$8.6	\$10.8	\$11.3
Cost of financial contracts (\$A/MWh)	\$58.2		\$68.3	\$100.1	\$85.1	
Powershop electricity customer connections <sup>7</sup>	124,668	99,368	121,575	118,721		
Powershop gas customer connections <sup>8</sup>	30,465	12,508	29,182	27,858		

# **AUSTRALIA**

	DECEMBER 2019 MONTH	DECEMBER 2018 MONTH	NOVEMBER 2019 MONTH	OCTOBER 2019 MONTH	6 MONTHS TO DECEMBER 2019	6 MONTHS TO DECEMBER 2018
Australian generation						
Wind generation volumes (GWh)	41	36	44	44	290	296
Average wind generation price <sup>5</sup> (\$A/MWh)	\$101.9	\$134.9	\$110.3	\$125.5	\$117.9	\$151.0
Hydro generation volumes (GWh)	16	23	15	17	77	123
Average hydro generation price <sup>5</sup> (\$A/MWh)	\$64.4	\$94.8	\$66.9	\$99.4	\$85.5	\$91.2
PPA generation received (GWh)	29	11	30	31	190	65
Average PPA generation price [net of costs] (\$A/MWh)	\$7.8	\$20.8	\$16.5	\$45.2	\$27.0	\$17.4
Australian hedging						
Hedging volume <sup>6</sup> (GWh)	50		48	50	258	
Hedging costs (\$A/MWh)	\$89.9		\$89.9	\$95.5	\$92.1	
Hedging spot revenue average price (\$A/MWh)	\$58.6		\$72.3	\$107.7	\$90.7	
Future contract close outs (\$A M)	-\$0.1	\$0.0	-\$0.3	-\$0.3	-\$1.1	-\$0.2

### **MERIDIAN GROUP**

	DECEMBER 2019 MONTH	DECEMBER 2018 MONTH	NOVEMBER 2019 MONTH	OCTOBER 2019 MONTH	6 MONTHS TO DECEMBER 2019	6 MONTHS TO DECEMBER 2018
Meridian Group						
Employee and Operating Costs (\$m)	22	22	24	25	144	135
Stay in Business Capital Expenditure (\$m)	4	3	4	4	24	23
Investment Capital Expenditure (\$m)	1	1	2	1	8	7
Total Capital Expenditure (\$m)	5	4	6	5	32	30

#### **Footnotes**

- Contracted sales volumes and volume weighted average price received from contracted customers less distribution costs
- 2. Derivatives sold excluding the sell-side of virtual asset swaps
- 3. Average price of both NZAS sales volume and derivative sales volumes
- Meridian Retail and Powershop New Zealand installation control points (ICPs), excluding vacants
- 5. Volume weighted average price received for Meridian's physical generation
- Over the counter and ASX contract volumes excluding the buy-side of virtual asset swaps
- ${\it 7.} \quad {\it Financially responsible market participants, excluding vacants}$
- 8. Meter installation registration numbers

# **FY20 OPERATING INFORMATION**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
No We also discussed as les	2019	2019	2019	2019	2019	2019	2020	2020	2020	2020	2020	2020
New Zealand contracted sales	F00	620	500	F00	640	CEO						
Retail contracted sales volume (GWh)	599	630	583	590	610	650						
Average retail contracted sales price (\$NZ/MWh)	\$113.5	\$115.4	\$109.5	\$102.7	\$99.8	\$100.0						
NZAS sales volume (GWh)	463	463	447	463	448	463						
Financial contract sales volumes (GWh)	150	176	148	129	135	164						
Average wholesale & financial contracts sales price (\$NZ/MV	\$69.9	\$70.9	\$68.4	\$67.0	\$65.3	\$62.3						
Retail customer supply volumes (GWh)	645	662	581	623	650	669						
Cost to supply retail customers (\$NZ/MWh)	\$110.4	\$135.6	\$129.3	\$130.2	\$112.7	\$57.1						
Cost to supply wholesale customers (\$NZ/MWh)	\$97.9	\$120.5	\$126.1	\$118.7	\$89.6	\$45.4						
Cost of financial contracts (\$NZ/MWh)	\$101.9	\$118.2	\$120.5	\$112.6	\$92.8	\$81.6						
Total New Zealand customer connections  New Zealand generation	304,993	307,798	309,372	311,694	313,150	313,599						
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Hydro generation volume (GWh)	1,111	1,106	1,015	980	1,049	1,147						
Wind generation volume (GWh)	116	135	126	143	133	125						
Total generation volume (GWh)	1,227	1,241	1,141	1,123	1,182	1,272						
Average generation price (\$NZ/MWh)	\$100.7	\$122.7	\$121.9	\$121.4	\$93.7	\$51.4						
New Zealand hedging	4.45	120	122	4.45	4.40	402						
Hedging volume (GWh)	145	139	132	145	148	182						
Hedging costs (\$NZ/MWh)	\$65.0	\$63.2	\$62.2	\$64.4	\$67.3	\$64.4						
Hedging spot revenue average price (\$NZ/MWh)	\$104.4	\$130.5	\$124.0	\$122.6	\$104.1	\$63.1						
Future contract close outs (\$NZm)	-0.3	-0.6	-1.4	-1.5	-0.2	-0.9						
Australia contracted sales												
Retail contracted electricity sales volume (GWh)	63	66	55	49	46	50						
		\$147.0	\$131.2			\$161.1						
Average electricity contracted sales price (\$A/MWh)	\$149.8		•	\$168.0	\$174.0							
Retail contracted gas sales volume (TJ)	176	192	171	119	64	51						
Average gas contracted sales price (\$A/GJ)	\$13.9	\$14.0	\$13.4	\$13.8	\$18.9	\$20.0						
Financial contract sales volumes <sup>2</sup> (GWh)	54	43	60	65	63	68						
Financial contracted sales average price (\$A/MWh)	\$83.3	\$86.1	\$90.1	\$80.1	\$80.1	\$79.2						
Cost to supply electricity customers (\$A/MWh)	\$105.5	\$126.4	\$118.0	\$119.9	\$89.2	\$82.2						
Cost to supply gas customers (\$A/GJ)	\$11.8	\$11.4	\$9.8	\$8.6	\$14.0	\$9.9						
Cost of financial contracts (\$A/MWh)	\$86.9	\$101.0	\$103.6	\$100.1	\$68.3	\$58.2						
Powershop electricity customer connections <sup>7</sup>	111,373	112,995	115,099	118,721	121,575	124,668						
Powershop gas customer connections <sup>8</sup>	24,096	25,240	26,529	27,858	29,182	30,465						
Australia generation												
Wind generation volume (GWh)	61	56	44	44	44	41						
Average wind generation price (\$A/MWh)	\$115.7	\$124.7	\$127.3	\$125.5	\$110.3	\$101.9						
Hydro generation volume (GWh)	3	7	19	17	15	16						
Average hydro generation price (\$A/MWh)	\$81.0	\$104.0	\$99.2	\$99.4	\$66.9	\$64.4						
PPA generation received (GWh)	35	34	30	31	30	29						
Average PPA generation price [net of costs] (\$A/MWh)	\$22.9	\$30.3	\$38.4	\$45.2	\$16.5	\$7.8						
Australia hedging												
Hedging volume (GWh)	36	39	36	50	48	50						
Hedging costs (\$A/MWh)	\$89.6	\$93.1	\$94.3	\$95.5	\$89.9	\$89.9						
Hedging spot revenue average price (\$A/MWh)	\$99.6	\$105.4	\$111.4	\$107.7	\$72.3	\$58.6						
Future contract close outs (\$A M)	-\$0.8	\$0.0	-\$0.5	-\$0.3	-\$0.3	-\$0.1						
Meridian Group												
Employee and Operating Costs (\$NZ m)	24	24	25	25	24	22						
Stay in Business Capital Expenditure (\$NZ m)	4	3	4	4	4	4						
Investment Capital Expenditure (\$NZ m)	1	2	2	1	2	1						
Total Capital Expenditure (\$NZ m)  Maridian Energy Limited Monthly Operating Re	5	5	6 r 2010	5	6	5 nuary 201						

## **FY19 OPERATING INFORMATION**

										_		_
	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	Jun 2019
New Zealand contracted sales	2010	2010	2010	2010	2010	2010	2013	2013	2013	2013	2013	2013
Retail contracted sales volume (GWh)	521	529	497	524	481	448	555	534	557	508	538	548
Average retail contracted sales price (\$NZ/MWh)	\$113.1	\$110.7	\$106.7	\$98.3	\$98.5	\$95.5	\$98.2	\$102.0	\$101.3	\$105.4	\$112.7	\$113.9
NZAS sales volume (GWh)	426	426	411	439	444	463	463	418	463	448	463	448
Financial contract sales volumes (GWh)	386	196	140	149	146	217	157	196	187	168	168	129
Average wholesale & financial contracts sales price (\$NZ/MV	\$63.9	\$58.5	\$58.0	\$65.9	\$72.7	\$68.9	\$69.4	\$80.6	\$80.3	\$73.0	\$72.3	\$69.6
Retail customer supply volumes (GWh)	541	560	528	554	509	468	581	572	587	538	578	592
Cost to supply retail customers (\$NZ/MWh)	\$87.1	\$90.0	\$95.0	\$309.8	\$183.0	\$115.5	\$141.3	\$171.6	\$186.0	\$113.4	\$113.3	\$102.8
Cost to supply wholesale customers (\$NZ/MWh)	\$68.9	\$74.4	\$88.7	\$284.1	\$137.1	\$98.1	\$125.8	\$153.6	\$168.2	\$97.5	\$93.1	\$89.7
Cost of financial contracts (\$NZ/MWh)	\$71.8	\$93.1	\$94.3	\$267.7	\$152.7	\$116.5	\$126.1	\$156.8	\$163.0	\$104.4	\$96.3	\$103.0
Total New Zealand customer connections	292,091	292,906	293,386	294,695	296,064	296,532	297,621	299,351	299,905	301,230	301,508	302,277
New Zealand generation	232,032	232,300	255,550	25 1,055	250,001	230,302	237,022	255,651	255,505	301,230	501,500	502,277
Hydro generation volume (GWh)	1,070	1,123	959	897	905	972	1,022	1,015	1,046	1,060	1,125	1,132
Wind generation volume (GWh)	126	90	115	107	99	83	116	104	81	99	123	100
Total generation volume (GWh)	1,196	1,213	1,074	1,004	1,004	1,055	1,138	1,119	1,128	1,159	1,248	1,232
Average generation price (\$NZ/MWh)	\$72.1	\$77.2	\$86.8	\$284.6	\$149.5	\$98.8	\$125.3	\$153.1	\$171.5	\$99.8	\$96.5	\$95.2
New Zealand hedging	7	*****	700.0	7-0	7-1010	700.0	7	7	7	700.0	700.0	700.0
Hedging volume (GWh)	170	167	147	200	190	177	155	142	186	144	149	138
Hedging costs (\$NZ/MWh)	\$65.7	\$63.1	\$62.5	\$77.7	\$74.7	\$61.7	\$69.3	\$66.6	\$71.2	\$65.0	\$66.3	\$63.9
Hedging spot revenue average price (\$NZ/MWh)	\$74.5	\$80.8	\$87.9	\$290.6	\$180.8	\$104.6	\$127.7	\$157.7	\$168.4	\$103.1	\$101.9	\$97.5
Future contract close outs (\$NZm)	-0.1	-0.3	-0.6	-0.5	-0.5	-0.5	-0.4	-0.7	-2.8	-1.1	-0.4	-0.1
,												
Australia contracted sales												
Retail contracted electricity sales volume (GWh)	58	57	48	41	37	39	44	38	45	41	49	58
Average electricity contracted sales price (\$A/MWh)	\$149.6	\$168.9	\$159.4	\$150.4	\$151.5	\$165.9					\$162.2	\$159.7
Retail contracted gas sales volume (TJ)	4	20	40	41	20	17	9	9	13	25	102	64
Average gas contracted sales price <sup>1</sup> (\$A/GJ)	\$16.1	\$15.5	\$14.2	\$15.7	\$20.7	\$24.7					\$15.4	\$19.4
Financial contract sales volumes <sup>2</sup> (GWh)	γ10.1	Ψ±5.5	γ14.Z	Ψ <b>1</b> 3.7	Ψ <b>2</b> 0.7	Ψ <u>2</u> -1.7					51	42
Financial contracted sales average price (\$A/MWh)											\$64.1	\$80.7
Cost to supply electricity customers (\$A/MWh)	\$103.1	\$105.7	\$114.1	\$108.7	\$113.3	\$111.4					\$112.4	\$133.7
Cost to supply gas customers (\$A/GJ)	\$103.1	\$103.7	\$15.0	\$6.8	\$8.9	\$111.4					\$112.4	\$29.4
Cost of financial contracts (\$A/MWh)	\$14.0	\$12.0	\$15.0	Ş0.6	Ç0.5	\$14.0					\$70.1	\$100.2
_	06.742	00.004	00.057	07.544	00.640	00.200	101 020	402 720	404 450	100 210		
Powershop electricity customer connections	96,743	96,801	96,657	97,514	98,618	99,368	101,020	102,730	104,450	106,240	108,332	109,804
Powershop gas customer connections <sup>8</sup>	1,137	4,776	7,558	9,577	11,333	12,508	14,309	16,751	18,225	19,990	21,426	22,612
Australia generation												
Wind generation volume (GWh)	74	64	43	40	37	36	33	30	33	36	49	49
Average wind generation price (\$A/MWh)	\$153.0	\$148.0	\$163.9	\$178.3	\$123.2	\$134.9					\$143.9	\$126.1
Hydro generation volume (GWh)	10	11	25	30	26	23	29	21	16	11	1	3
Average hydro generation price (\$A/MWh)	\$37.3	\$46.0	\$128.6	\$92.0	\$90.9	\$94.8					\$79.3	\$77.4
PPA generation received (GWh)	11	10	7	13	12	11					33	31
Average PPA generation price [net of costs] (\$A/MWh)	-\$66.0	-\$63.9	-\$71.3	-\$65.5	\$121.3	\$20.8					\$40.4	\$34.2
Australia hedging												
Hedging volume (GWh)											80	51
Hedging costs (\$A/MWh)											\$65.6	\$95.9
Hedging spot revenue average price (\$A/MWh)		44.	4		4						\$58.2	\$99.0
Future contract close outs (\$A M)	-\$0.1	-\$0.1	-\$1.2	-\$0.6	\$1.9	\$0.0					\$0.0	\$0.1
Meridian Group												
Employee and Operating Costs (\$NZ m)	22	23	24	22	22	22	22	22	23	22	26	29
Stay in Business Capital Expenditure (\$NZ m)	5	3	4	5	4	3	3	3	3	4	26 5	9
Investment Capital Expenditure (\$NZ m)	1	1	1	1	1	1	1	2	1	1	2	1
Total Capital Expenditure (\$NZ m)	6	4	5	6	5	4	4	5	4	5	7	10
Total Capital Experiulture (\$NZ III)	В	4	5	ь		4	4		4			10

## **GLOSSARY**

buy-side electricity derivatives excluding the buy-side of virtual asset swaps Hedging volumes Average generation price the volume weighted average price received for Meridian's physical generation Average retail contracted sales price volume weighted average electricity price received from retail customers, less distribution costs Average wholesale contracted sales price volume weighted average electricity price received from wholesale customers (including NZAS) and financial contracts Combined catchment inflows combined water inflows into Meridian's Waitaki and Waiau hydro storage lakes Cost of hedges volume weighted average price Meridian pays for derivatives acquired Cost to supply contracted sales volume weighted average price Meridian pays to supply contracted customer sales and financial contracts Contracts for Difference (CFDs) an agreement between parties to pay the difference between the wholesale electricity price and an agreed fixed price for a specified volume of electricity. CFDs do not result in the physical supply of electricity

Customer connections (NZ) number of installation control points, excluding vacants

financially responsible market participant **FRMP** 

gigawatt hour. Enough electricity for 125 average New Zealand households for one year **GWh** 

the historic average combined water inflows into Meridian's Waitaki and Waiau hydro storage lakes over the last 85 years Historic average inflows

the historic average level of storage in Meridian's Waitaki catchment since 1979 Historic average storage

**HVDC** high voltage direct current link between the North and South Islands of New Zealand

New Zealand installation control points, excluding vacants **ICP** 

**ICP** switching the number of installation control points changing retailer supplier in New Zealand, recorded in the month the switch was initiated

megawatt hour. Enough electricity for one average New Zealand household for 46 days MWh

Electricity Authority's reconciled grid demand www.emi.ea.govt.nz National demand

**NZAS** New Zealand Aluminium Smelters Limited

contract sales volumes to retail customers, including both non half hourly and half hourly metered customers Retail sales volumes

sell-side electricity derivatives excluding the sell-side of virtual asset swaps Financial contract sales

Terajoules TJ

Virtual Asset Swaps (VAS) CFDs Meridian has with Genesis Energy and Mercury New Zealand. They do not result in the physical supply of electricity