

Monthly Operating Report

October 2022

October highlights

In the month to 15 November 2022, national hydro storage increased from 146% to 149% of historical average

South Island storage increased to 154% of average and North Island storage decreased to 132% of average by 15 November 2022

Meridian's October 2022 monthly total inflows were 70% of historical average

Waiau catchment inflows in October 2022 were lower, at 58% of historical average

Meridian's Waitaki catchment water storage at the end of October 2022 was 154% of historical average

Water storage in Meridian's Waiau catchment was 73% of average at the end of October 2022

Waitaki snow storage in late October 2022 was 109% of historical average

National electricity demand in October 2022 was 3.1% higher than the same month last year

October 2022 was dry and mild for much of the country. Rainfall was below average for most of the South Island and southern and westerns parts of the North Island

New Zealand Aluminium Smelter's average load during October 2022 was **573MW**

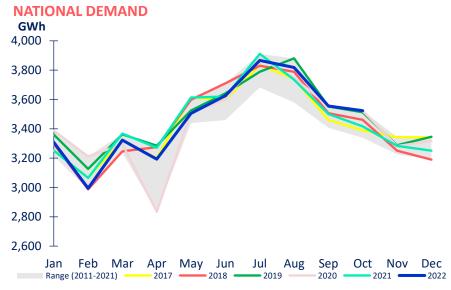
Meridian's New Zealand retail sales volumes in October 2022 were 11.0% higher than October 2021

Compared to October 2021, segment sales increased in residential +2.5%, small medium business +23.9%, agricultural +27.4% and corporate +7.2%. Large business sales decreased -7.9%



Market data

- National electricity demand in October 2022 was 3.1% higher than the same month last year
- October 2022 was dry and mild for much of the country. Rainfall was below average for most of the South Island and southern and westerns parts of the North Island
- Demand in the last 12 months was 0.2% lower than the preceding 12 months
- New Zealand Aluminium Smelter's average load during October 2022 was 573MW
- 12-month average switching rate of customers changing retailers but not moving ("trader" switch) was 5.6% at the end of September 2022
- 12-month average switching rate of customers moving and changing retailers ("move-in" switch) was 13.5% at the end of September 2022



Source: Electricity Authority (reconciled demand)

MARKET ICP SWITCHING (ALL RETAILERS)



Source: Electricity Authority



Market data

- October 2022 saw increases in longer term ASX prices
- National storage increased from 146% of average on 7 October 2022 to 149% of average on 15 November 2022
- South Island storage increased to 154% of historical average by 15 November 2022.
 North Island storage decreased to 132% of average

OTAHUHU ASX FUTURES SETTLEMENT PRICE

270 250 230 210 190 170 150 130 110 90 70 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4

30 June 2022

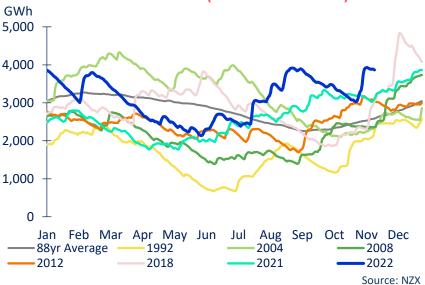
3 October 2022

29 July 2022

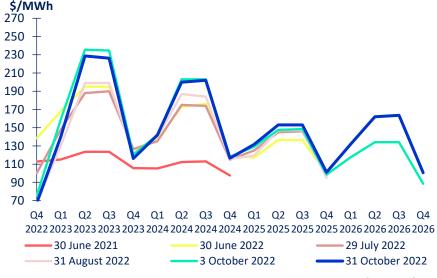
31 October 2022

Source: ASX

NATIONAL HYDRO STORAGE (15 November 2022)



BENMORE ASX FUTURES SETTLEMENT PRICE



Source: ASX



30 June 2021

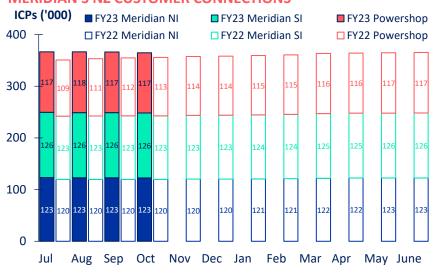
31 August 2022

\$/MWh

New Zealand retail

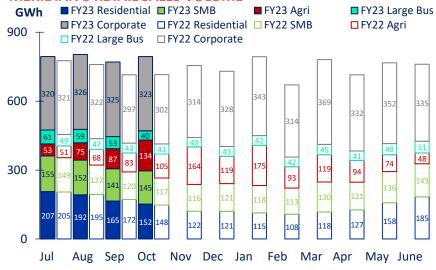
- Meridian's New Zealand customer connection numbers decreased -0.4% during October 2022 and have decreased -0.2% since June 2022
- Retail sales volumes in October 2022 were 11.0% higher than October 2021
- Compared to October 2021, segment sales increased in residential +2.5%, small medium business +23.9%, agricultural +27.4% and corporate +7.2%. Large business sales decreased -7.9%
- To date this financial year, retail sales volumes are 6.7% higher than the same period last year
- This reflects increased segment sales in: small medium business +15.5%, agricultural +13.3%, large business +16.3% and corporate +4.1%. Residential sales are -0.6% lower

MERIDIAN'S NZ CUSTOMER CONNECTIONS



Source: Meridian

MERIDIAN'S RETAIL SALES VOLUME*



*excludes volumes sold to New Zealand Aluminium Smelters and CFDs

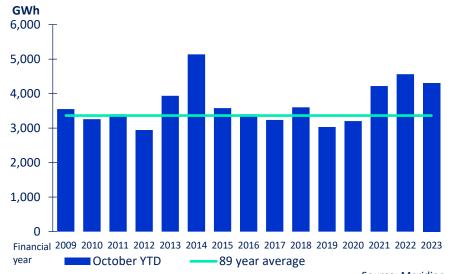




New Zealand storage

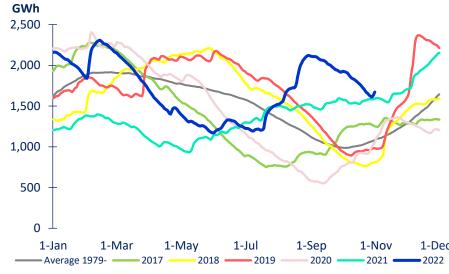
- October 2022 monthly inflows were 70% of historical average
- Waiau catchment inflows in October 2022 were lower, at 58% of historical average
- To date this financial year, inflows are 128% of historical average
- Meridian's Waitaki catchment water storage moved from 1,923GWh to 1,673GWh during October 2022
- Waitaki water storage at the end of October 2022 was 154% of historical average and 5% higher than the same time last year
- Water storage in Meridian's Waiau catchment was 73% of average at the end of October 2022
- Waitaki snow storage in late October 2022 was 109% of historical average

MERIDIAN'S COMBINED CATCHMENT INFLOWS



Source: Meridian

MERIDIAN'S WAITAKI STORAGE



Source: Meridian



New Zealand generation

- Meridian's New Zealand generation in October 2022 was 5.5% lower than the same month last year, reflecting lower hydro and higher wind generation
- To date this financial year, Meridian's New Zealand generation is 1.3% higher than the same period last year, reflecting higher hydro and lower wind generation
- The average price Meridian received for its generation in October 2022 was 26.8% higher than the same month last year
- The average price Meridian paid to supply customers in October 2022 was 17.7% higher than the same month last year
- To date this financial year, the average price Meridian received for its generation is 39.2% lower than the same period last year and the average price paid to supply customers is 38.0% lower

MERIDIAN'S NEW ZEALAND GENERATION GWh 1,400 1,000 800 400

Oct Nov Dec Jan Feb Mar Apr May Jun

☐ FY22 Hvdro

Source: Meridian

FY22 Wind

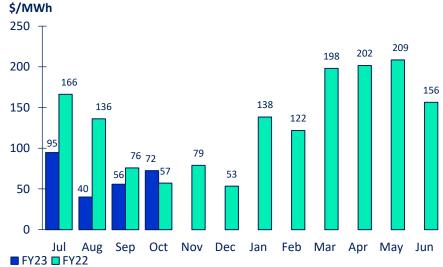
MERIDIAN'S AVERAGE GENERATION PRICE*

FY23 Wind

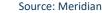
Aug Sep

FY23 Hydro

200



*price received for Meridian's physical generation





New Zealand

	OCTOBER	OCTOBER	SEPTEMBER	AUGUST	4 MONTHS TO	4 MONTHS TO
	2022	2021	2022	2022	OCTOBER	OCTOBER
	MONTH	MONTH	MONTH	MONTH	2022	2021
New Zealand contracted sales		_				
Residential sales volume (GWh)	152	148	165	192	716	721
Small medium business sales volume (GWh)	145	117	141	152	593	513
Agricultural sales volume (GWh)	134	105	87	75	348	307
Large business sales volume (GWh)	40	43	53	59	213	183
Corporate and industrial sales volume (GWh)	323	302	325	326	1,293	1,242
Retail contracted sales volume (GWh)	795	716	771	804	3,164	2,966
Average retail contracted sales price ¹ (\$NZ/MWh)	\$124.0	\$109.9	\$134.9	\$134.2	\$131.6	\$120.0
NZAS sales volume (GWh)	426	426	411	425	1,687	1,688
Financial contract sales volumes ² (GWh)	257	374	176	281	904	1,102
Average wholesale & financial contracts sales price ³ (\$NZ/MWh)	\$56.5	\$62.3	\$50.5	\$60.4	\$58.3	\$69.6
Retail customer supply volumes (GWh)	847	764	823	843	3,347	3,127
Cost to supply retail customers (\$NZ/MWh)	\$82.8	\$74.6	\$64.5	\$49.1	\$76.8	\$131.8
Cost to supply wholesale customers (\$NZ/MWh)	\$70.7	\$51.2	\$49.7	\$40.2	\$64.7	\$98.4
Cost of financial contracts (\$NZ/MWh)	\$73.7	\$66.0	\$63.1	\$58.7	\$76.8	\$110.3
Total New Zealand customer connections ⁴	364,700	355,760	366,285	366,599		

See page 10 for footnotes



New Zealand

	OCTOBER	OCTOBER	SEPTEMBER	AUGUST	4 MONTHS TO	4 MONTHS TO
	2022	2021	2022	2022	OCTOBER	OCTOBER
	MONTH	MONTH	MONTH	MONTH	2022	2021
New Zealand generation						
Hydro generation volume (GWh)	1,066	1,150	1,101	1,187	4,366	4,280
Wind generation volume (GWh)	126	111	89	122	456	480
Total generation volume (GWh)	1,192	1,260	1,190	1,308	4,822	4,760
Average generation price ⁵ (\$NZ/MWh)	\$72.4	\$57.1	\$55.7	\$39.9	\$64.7	\$106.4
New Zealand hedging					<u> </u>	
Hedging volume ⁶ (GWh)	350	327	352	425	1,555	1,301
Hedging cost average price (\$NZ/MWh)	\$103.3	\$93.6	\$116.7	\$122.0	\$119.2	\$116.2
Hedging spot revenue average price (\$NZ/MWh)	\$77.2	\$74.4	\$64.7	\$39.6	\$73.9	\$126.2
Future contract close outs (\$NZm)	\$5.4	-\$0.9	\$20.7	\$12.7	\$37.8	-\$1.4





New Zealand

	OCTOBER 2022 MONTH	OCTOBER 2021 MONTH	SEPTEMBER 2022 MONTH	AUGUST 2022 MONTH	4 MONTHS TO OCTOBER 2022	4 MONTHS TO OCTOBER 2021
New Zealand costs						
Employee and Operating Costs ⁷ (\$m)	21	18	20	20	80	70
Stay in Business Capital Expenditure (\$m)	3	3	4	4	14	13
Investment Capital Expenditure (\$m)	11	12	12	9	41	48
Total Capital Expenditure (\$m)	14	15	16	13	55	61

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
- 4. Meridian Retail and Powershop New Zealand installation control points (ICPs), excluding vacants
- 5. Volume weighted average price received for Meridian's physical generation
- 6. Over the counter and ASX contract volumes excluding the buy-side of virtual asset swaps
- 7. Excludes electricity metering expenses, now reclassified into gross margin



FY23 operating information

· · · · · · · · · · · · · · · · · · ·	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Q1	YoY	Q2	YoY	Q3	YoY	Q4	Yo
	2022	2022	2022	2022	2022	2022	2023	2023	2023	2023	2023	2023	FY22	change	FY22	change	FY22	change	FY22	chan
New Zealand contracted sales																				
Residential sales volume (GWh)	207	192	165	152									564	-8						
Small medium business sales volume (GWh)	155	152	141	145									448	+52						
Agricultural sales volume (GWh)	53	75	87	134									214	+12						
Large business sales volume (GWh)	61	59	53	40									173	+33						
Corporate and industrial sales volume (GWh)	320	326	325	323									970	+30						
Retail contracted sales volume (GWh)	795	804	771	795									2,369	+119						
Average retail contracted sales price (\$NZ/MWh)	\$133.3	\$134.2	\$134.9	\$124.0									\$134.1	+\$10.9						
NZAS sales volume (GWh)	426	425	411	426									1,262	-1						
Financial contract sales volumes (GWh)	190	281	176	257									647	-81						
Average wholesale & financial contracts sales price (\$NZ/MWh)	\$65.4	\$60.4	\$50.5	\$56.5									\$58.9	-\$13.5						
Retail customer supply volumes (GWh)	835	843	823	847									2,501	+138						
Cost to supply retail customers (\$NZ/MWh)	\$110.6	\$49.1	\$64.5	\$82.8									\$74.7	-\$75.6						
Cost to supply wholesale customers (\$NZ/MWh)	\$97.6	\$40.2	\$49.7	\$70.7									\$62.7	-\$51.7						
Cost of financial contracts (\$NZ/MWh)	\$120.6	\$58.7	\$63.1	\$73.7									\$78.1	-\$54.9						
Total New Zealand customer connections	366,518	366,599	366,285	364,700									366,285	+11,475						
New Zealand generation																				_
Hydro generation volume (GWh)	1,013	1,187	1,101	1,066									3,300	+170						
Wind generation volume (GWh)	120	122	89	126									331	-39						
Total generation volume (GWh)	1,133	1,308	1,190	1,192									3,631	+131						
Average generation price (\$NZ/MWh)	\$94.7	\$39.9	\$55.7	\$72.4									\$62.2	-\$62.0						
New Zealand hedging	,	•			, and the second	•	, and the second	, and the second	,	•	•	,								,
Hedging volume (GWh)	428	425	352	350									1,205	+231						
Hedging cost average price (\$NZ/MWh)	\$131.4	\$122.0	\$116.7	\$103.3									\$123.8	-\$0.0						
Hedging spot revenue average price (\$NZ/MWh)	\$113.0	\$39.6	\$64.7	\$77.2									\$73.0	-\$70.6						
Future contract close outs (\$NZm)	-1.1	12.7	20.7	\$5.4									32.4	+32.9						
Meridian Group																				
Employee and Operating Costs (\$NZ m)	19	20	20	21									80	+8						
Stay in Business Capital Expenditure (\$NZ m)	3	4	4	3									11	+1						
Investment Capital Expenditure (\$NZ m)	9	9	12	11									30	-6						
Total Capital Expenditure (\$NZ m)	12	13	16	14									41	-5						



FY22 operating information

-	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Q1	YoY	Q2	YoY	Q3	YoY	Q4	Yo
	2021	2021	2021	2021	2021	2021	2022	2022	2022	2022	2022	2022	FY22	change	FY22	change	FY22	change	FY22	change
New Zealand contracted sales																				
Residential sales volume (GWh)	205	195	172	148	122	121	115	108	118	127	158	185	572	+70	391	+45	341	+39	470	+15
Small medium business sales volume (GWh)	149	127	120	117	116	121	118	113	130	121	136	143	396	+71	354	+55	362	+62	399	+30
Agricultural sales volume (GWh)	51	68	83	105	164	119	175	93	119	94	74	48	202	-3	387	-81	388	-88	216	-10
Large business sales volume (GWh)	49	47	43	43	40	43	42	42	45	41	48	51	140	-16	126	-7	128	-1	140	+14
Corporate and industrial sales volume (GWh)	321	322	297	302	314	328	343	314	369	332	352	335	940	+111	943	+88	1,026	+93	1,019	+51
Retail contracted sales volume (GWh)	776	759	715	716	755	731	793	671	781	715	768	761	2,250	+233	2,202	+99	2,246	+105	2,244	+99
Average retail contracted sales price (\$NZ/MWh)	\$122.6	\$124.0	\$123.2	\$109.9	\$109.8	\$105.2	\$111.2	\$115.5	\$116.6	\$122.8	\$128.5	\$127.0	\$123.2	+\$4.0	\$108.3	+\$3.8	\$114.4	+\$7.6	\$126.2	+\$7.2
NZAS sales volume (GWh)	426	426	411	426	412	426	426	384	426	402	418	412	1,262	+0	1,263	+0	1,236	+0	1,232	-18
Financial contract sales volumes (GWh)	197	297	234	374	280	208	280	244	249	178	203	219	728	+214	862	+376	773	+306	600	+161
Average wholesale & financial contracts sales price (\$NZ/MWh)	\$73.2	\$78.4	\$65.1	\$62.3	\$56.9	\$59.8	\$63.3	\$63.7	\$64.2	\$68.1	\$74.9	\$66.9	\$72.5	-\$3.3	\$59.8	-\$8.9	\$63.7	+\$0.9	\$70.0	-\$5.4
Retail customer supply volumes (GWh)	816	795	752	764	798	776	828	709	821	747	815	814	2,363	+246	2,337	+123	2,358	+114	2,376	+123
Cost to supply retail customers (\$NZ/MWh)	\$190.3	\$165.3	\$91.0	\$74.6	\$92.7	\$57.2	\$148.4	\$146.4	\$213.2	\$210.5	\$221.5	\$168.0	\$150.3	+\$8.4	\$75.0	-\$40.8	\$170.4	-\$53.1	\$199.7	-\$87.0
Cost to supply wholesale customers (\$NZ/MWh)	\$162.7	\$115.9	\$62.6	\$51.2	\$76.5	\$45.5	\$156.9	\$120.5	\$216.0	\$225.2	\$215.0	\$152.1	\$114.3	-\$10.9	\$57.5	-\$36.4	\$165.9	-\$45.6	\$197.3	-\$67.6
Cost of financial contracts (\$NZ/MWh)	\$159.9	\$137.5	\$104.8	\$66.0	\$78.8	\$68.2	\$160.4	\$117.0	\$180.6	\$219.0	\$207.7	\$157.1	\$133.0	+\$2.9	\$70.7	-\$34.0	\$153.2	-\$39.3	\$192.6	-\$70.9
Total New Zealand customer connections	350,961	353,357	354,810	355,760	357,521	358,350	359,550	360,780	363,430	364,182	364,839	365,346	354,810	+26,208	358,350	+25,763	363,430	+25,379	365,346	+18,516
New Zealand generation																				
Hydro generation volume (GWh)	1,000	1,020	1,110	1,150	1,052	1,071	1,110	918	986	876	982	998	3,130	+372	3,273	+119	3,014	+298	2,855	+185
Wind generation volume (GWh)	105	129	135	111	114	114	86	94	84	93	104	116	370	-16	339	-40	264	-23	313	-31
Total generation volume (GWh)	1,105	1,149	1,245	1,260	1,166	1,185	1,196	1,012	1,070	968	1,085	1,114	3,499	+356	3,612	+79	3,278	+275	3,168	+154
Average generation price (\$NZ/MWh)	\$166.2	\$136.1	\$75.8	\$57.1	\$78.9	\$53.4	\$138.4	\$121.8	\$198.1	\$201.5	\$208.5	\$156.4	\$124.1	-\$2.3	\$63.0	-\$38.2	\$152.8	-\$58.0	\$188.0	-\$79.7
New Zealand hedging																				
Hedging volume (GWh)	394	325	255	327	332	346	404	421	459	438	353	324	975	+122	1,004	+141	1,283	+195	1,115	+35
Hedging cost average price (\$NZ/MWh)	\$129.6	\$121.5	\$117.7	\$93.6	\$94.8	\$109.3	\$104.1	\$117.0	\$120.0	\$127.8	\$134.6	\$136.7	\$123.8	+\$18.5	\$99.4	+\$5.2	\$114.0	-\$1.2	\$132.6	+\$17.2
Hedging spot revenue average price (\$NZ/MWh)	\$164.1	\$140.7	\$115.6	\$74.4	\$88.3	\$69.2	\$168.3	\$138.8	\$205.9	\$197.5	\$217.2	\$161.2	\$143.6	+\$13.4	\$77.2	-\$32.5	\$172.1	-\$55.1	\$193.2	-\$68.0
Future contract close outs (\$NZm)	-0.7	0.1	0.2	-0.9	0.2	-0.1	-5.1	-1.5	10.0	-6.4	2.3	10.9	-0.5	+5.9	-0.8	+2.8	3.3	+13.0	6.8	+0.8
Meridian Group																				
Employee and Operating Costs (\$NZ m)	16	17	18	18	20	8	15	18	21	19	21	25	51	+3	46	-3	54	+7	65	+1
Stay in Business Capital Expenditure (\$NZ m)	3	3	4	3	6	2	-1	4	4	3	3	6	10	+1	11	+2	6	-2	13	+1
Investment Capital Expenditure (\$NZ m)	9	4	23	11	17	6	9	8	6	19	13	9	36	+25	34	+28	23	-14	41	+3:
Total Capital Expenditure (\$NZ m)	12	-	27	15	24	-		11	10	22	16	15	46	+26	46	+30	29	-16	54	+33



Glossary

Hedging volumes buy-side electricity derivatives excluding the buy-side of virtual asset swaps

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

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

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

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

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

ICP New Zealand installation control points, excluding vacants

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

initiated

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

National demand Electricity Authority's reconciled grid demand <u>www.emi.ea.govt.nz</u>

NZAS New Zealand Aluminium Smelters Limited

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

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

Virtual Asset Swaps (VAS)

CFDs Meridian has with Genesis Energy and Mercury New Zealand. They do not result in the physical supply of electricity

