

# Marlborough Lines

drop-down to change

Explanatory documentation: [Link](#)

Summary database: [Link](#)

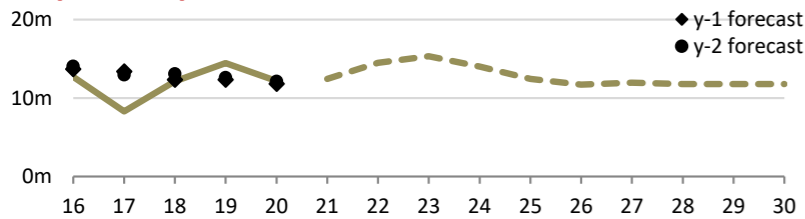
Performance Accessibility Tool: [Link](#)

2020

## Summary statistics

	2020 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$236m		+0.4%	14
Regulatory profit	\$8.4m		+11.4%	19
Return on investment	3.72%		+12.2%	27
Line charge revenue	\$38.0m		+1.3%	16
Other income	\$0.7m		-11.4%	10
Customer connections	25,855		+0.9%	17
Energy delivered	393 GWh		+1.6%	18
Peak demand	74 MW		+1.6%	18
Network capacity	361 MVA		+2.3%	15
Capital expenditure	\$12.2m		+13.6%	19
Operating expenditure	\$16.4m		-1.5%	13
Capital contributions	\$0.1m		-36.4%	21
Related party transactions	\$0.2m		+27.2%	25
Line length	3,412km		+0.2%	17
Outages - SAIDI	174 minutes		-21.1%	18
Outages - SAIFI	1.84 faults		-5.0%	18

## Capital expenditure

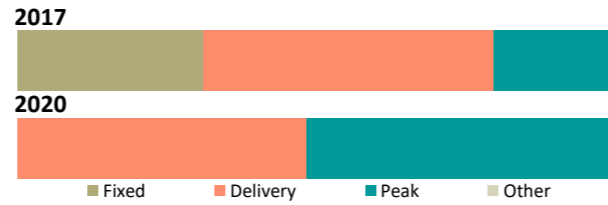


3 year ratios		
Total capex / asset base	Total capex / connections	Total capex / depreciation
5.6% Rank: 27	\$504 Rank: 13	1.30 Rank: 25

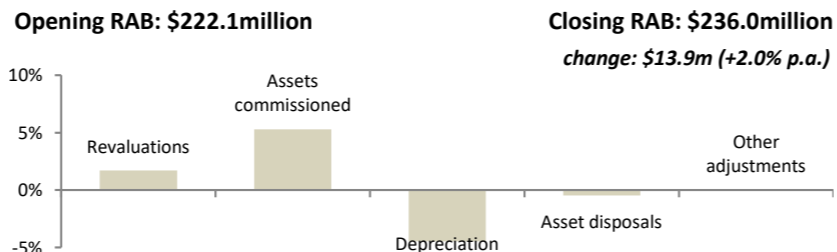
Capex by expenditure category	Average (2018-2020)	5 year trend	% of capex
Asset replacement & renewal	\$6.4m		49.5%
Reliability, safety & environment	\$4.0m		30.8%
Non-network assets	\$1.8m		14.3%
System growth	\$0.4m		3.4%
Consumer connection	\$0.2m		1.2%
Asset relocations	\$0.1m		0.9%
Total capital expenditure	\$12.9m		100.0%
Related party transactions	\$0.1m		0.5%

## Line charge revenues

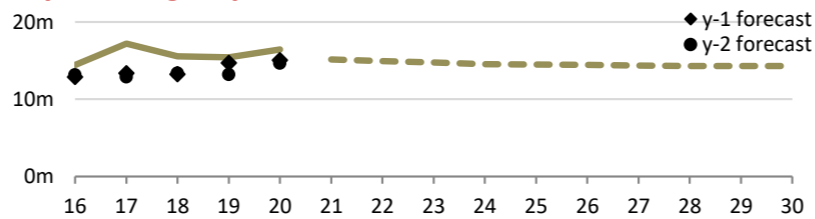
	Proportion of revenue	Charges per unit	Rank
Average daily charge	0.0%	N/A	26
Delivery (kWh)	48.6%	4.7c/kWh	17
Peak based	51.4%	\$262/kW	1



## Annualised RAB changes (2018-2020)



## Operating expenditure



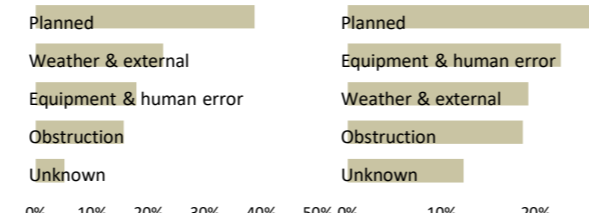
3 year ratios		
Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$2.15 Rank: 9	\$332 Rank: 6	\$209 Rank: 4

Opex by expenditure category	Average (2018-2020)	5 year trend	% of opex
System operations & network support	\$4.3m		26.9%
Business support	\$4.3m		26.9%
Routine & corrective maintenance	\$3.2m		20.3%
Vegetation management	\$2.3m		14.6%
Service interruptions & emergencies	\$1.1m		7.0%
Asset replacement & renewal	\$0.7m		4.3%
Total operating expenditure	\$15.8m		100.0%
Related party transactions	\$0.1m		0.7%

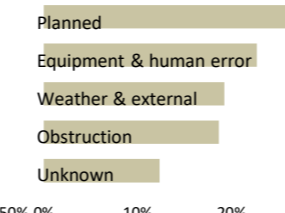
## Reliability

	Unplanned	Planned	Trend
Interruptions	475	326	↑
SAIDI	118.0	56.1	↓
SAIFI	1.44	0.40	↑
CAIDI	81.9	141.1	↓

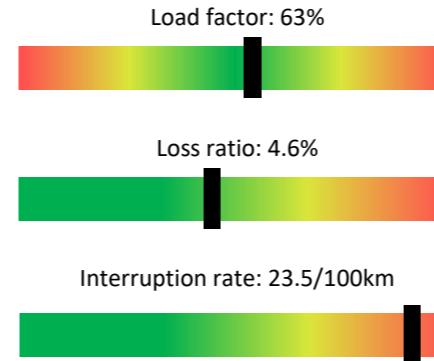
### SAIDI causes



### SAIFI causes



## Network ratios



## Company details

PQ Regulated?	No
CEO:	Tim Cosgrove
Ownership:	Marlborough Electric Power Trust
Head Office:	1 Alfred Street; Blenheim
Phone number:	03 577 7007
Website:	<a href="http://www.marlboroughlines.co.nz">www.marlboroughlines.co.nz</a>

## Lines and cables

Estimated state of the assets	Distribution & LV			
	O/H lines	U/G cables	Subtransmission lines and cables	Poles
Quantity	2,552km	557km	303km	30,761
RAB Value	\$48.5m	\$45.2m	\$34.8m	*
Average grade	3.40	4.60	3.79	3.58
Grade 1 / 2	2.0% / 14.9%	0.8% / 0.7%	5.8% / 3.6%	0.4% / 1.8%
Unknown grade	4.8%	2.1%	0.1%	0.0%
Average age	40 years	18 years	33 years	41 years
Over generic age	269km (10.5%)	4km (0.7%)	19km (6.4%)	9,065 (29.5%)
Unknown age	4.7%	1.9%	0.0%	2.1%
5yr replacement req (est)	9.4%	1.1%	7.6%	1.3%
5yr planned replacement	2.3%	1.0%	9.2%	3.6%
Forecast repex (ave)	\$4.4m +296%	\$0.1m -90%	\$1.1m -62%	*
Repex series				*

\* RAB and expenditure on poles is included within Distribution and LV lines

## Switchgear and transformers

Estimated state of the assets	Distribution		Zone-substation	
	transformers	switchgear	transformers	switchgear
Quantity	4,037	2,777	31	291
RAB Value	\$22.9m	\$15.7m	<----- \$46.0m ----->	
Average grade	3.58	3.95	4.26	4.75
Grade 1 / 2	0.1% / 10.1%	1.6% / 5.5%	0.0% / 6.5%	0.6% / 1.0%
Unknown grade	0.5%	1.1%	0.0%	0.0%
Average age	22 years	14 years	15 years	10 years
Over generic age	357 (8.8%)	126 (4.5%)	2 (6.5%)	4 (1.2%)
Unknown age	0.5%	1.5%	0.0%	0.3%
5yr replacement req (est)	5.1%	4.3%	3.2%	1.1%
5yr planned replacement	2.1%	5.0%	7.0%	1.6%
Forecast repex (ave)	\$0.8m +319%	\$0.6m +160%	\$0.6m -51%	
Repex series				

