

Marlborough Lines

[Excel workbook](#)

Explanatory documentation: [Link](#)

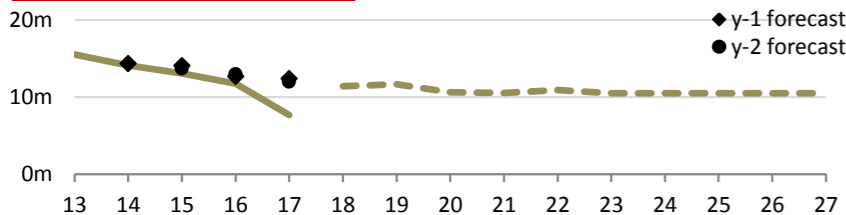
Summary database: [Link](#)

2017

Summary statistics

	2017 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$222m		+0.3%	14
Regulatory profit	\$5.8m		-4.8%	22
Return on investment	2.63%			29
Line charge revenue	\$34.8m		+1.7%	19
Other income	\$1.0m		+12.0%	7
Customer connections	25,133		+0.8%	18
Energy delivered	375 GWh		+1.1%	20
Peak demand	71 MW		+0.0%	19
Network capacity	338 MVA		+0.9%	15
Capital expenditure	\$7.7m		-18.4%	22
Operating expenditure	\$16.1m		+8.1%	10
Capital contributions	\$0.3m		+11.3%	19
Related party transactions	\$0.1m		-47.2%	26
Line length	3,396km		+0.2%	17
Outages - SAIDI	354 minutes		+12.9%	25
Outages - SAIFI	2.14 faults		+9.1%	18

Capital expenditure



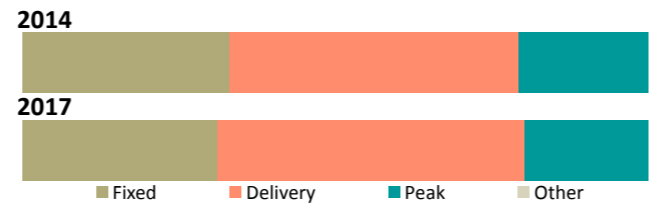
3 year ratios

Total capex / asset base	Total capex / connections	Total capex / depreciation
4.9% Rank: 4	\$435 Rank: 16	1.13 Rank: 4

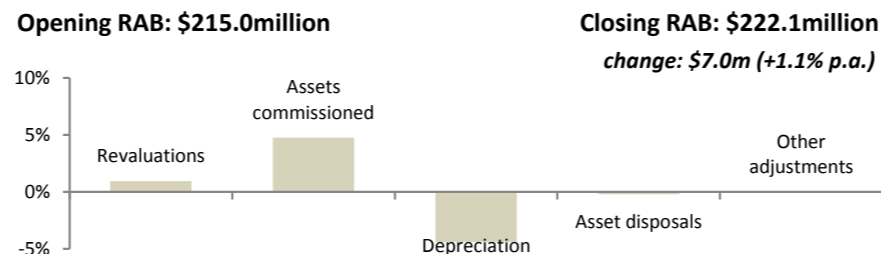
Capex by expenditure category	Average (2015-2017)	5 year trend	% of capex
Asset replacement & renewal	\$5.2m		47.8%
Reliability, safety & environment	\$2.5m		23.4%
Non-network assets	\$2.4m		22.6%
Asset relocations	\$0.4m		3.3%
Consumer connection	\$0.3m		2.8%
System growth	\$0.0m		0.2%
Total capital expenditure	\$10.8m		100.0%
Related party transactions	\$0.2m		1.5%

Line charge revenues

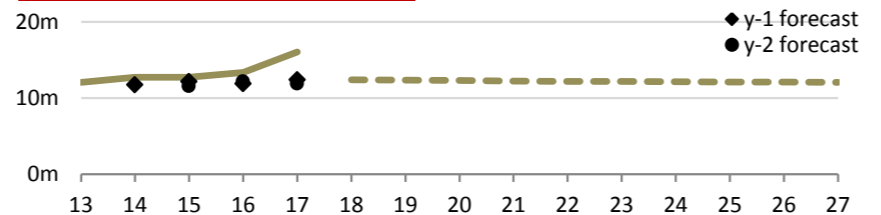
	Proportion of revenue	Charges per unit	Rank
Average daily charge	31.3%	118.7¢/ICP	23
Delivery (kWh)	48.9%	4.5¢/kWh	12
Peak based	19.8%	\$97/kW	20



Annualised RAB changes (2015-2017)



Operating expenditure

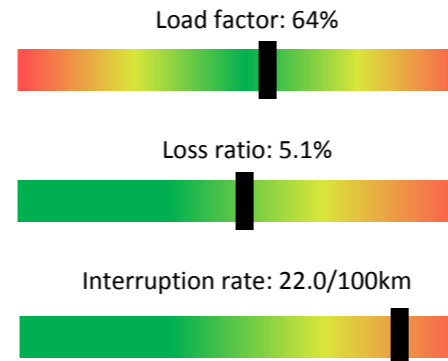


3 year ratios

Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$2.06 Rank: 23	\$284 Rank: 26	\$196 Rank: 26

Opex by expenditure category	Average (2015-2017)	5 year trend	% of opex
Business support	\$3.7m		26.3%
System operations & network support	\$3.4m		23.9%
Routine & corrective maintenance	\$2.7m		19.1%
Vegetation management	\$2.3m		16.4%
Service interruptions & emergencies	\$1.4m		9.6%
Asset replacement & renewal	\$0.6m		4.6%
Total operating expenditure	\$14.1m		100.0%
Related party transactions	\$0.0m		0.3%

Network ratios



Company details

PQ Regulated? No
 Managing Director: Ken Forrest
 Ownership: Marlborough Electric Power Trust
 Head Office: 1 Alfred Street; Blenheim
 Phone number: 03 577 7007
 Website: www.marlboroughlines.co.nz

Lines and cables

Estimated state of the assets	Distribution & LV O/H lines	Distribution & LV U/G cables	Subtransmission lines and cables	Poles
Quantity	2,565km	524km	300km	30,526
RAB Value	\$49.1m	\$44.6m	\$27.6m	*
Average grade	3.17	3.22	3.15	3.28
Grade 1 / 2	0.1% / 2.8%	0.0% / 0.7%	1.4% / 1.0%	0.2% / 1.5%
Unknown grade	0.0%	3.7%	0.0%	10.8%
Average age	38 years	17 years	35 years	39 years
Over generic age	213km (8.3%)	2km (0.4%)	31km (10.2%)	8,147 (26.7%)
Unknown age	11.1%	0.0%	0.1%	1.5%
5yr replacement req (est)	1.5%	0.4%	1.9%	1.0%
5yr planned replacement	6.0%	0.0%	2.8%	3.9%
Forecast repex (ave)	\$2.1m +15%	\$0.8m +254%	\$1.2m -11%	*
Repex series				*

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

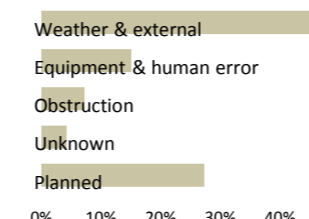
Switchgear and transformers

Estimated state of the assets	Distribution transformers	Distribution switchgear	Zone-substation transformers	Zone-substation switchgear
Quantity	3,947	3,179	31	284
RAB Value	\$22.8m	\$16.6m	<----- \$38.1m ----->	
Average grade	3.10	3.25	3.29	3.25
Grade 1 / 2	0.0% / 3.2%	0.0% / 0.0%	0.0% / 0.0%	0.0% / 0.0%
Unknown grade	0.7%	0.0%	0.0%	0.0%
Average age	21 years	12 years	20 years	11 years
Over generic age	300 (7.6%)	128 (4.0%)	6 (18.1%)	7 (2.3%)
Unknown age	0.7%	1.4%	0.0%	0.4%
5yr replacement req (est)	1.6%	0.0%	0.0%	0.0%
5yr planned replacement	7.0%	0.0%	0.0%	0.0%
Forecast repex (ave)	\$0.4m +19%	\$0.6m +41%	\$1.3m +25%	
Repex series				

Reliability

	Unplanned	Planned	Trend
Interruptions	474	274	↑
SAIDI	303.2	50.9	↑
SAIFI	1.89	0.26	↑
CAIDI	160.8	197.3	↑

SAIDI causes



SAIFI causes

