

Electricity Ashburton

[Excel workbook](#)

Explanatory documentation: [Link](#)

Summary database: [Link](#)

2017

Summary statistics

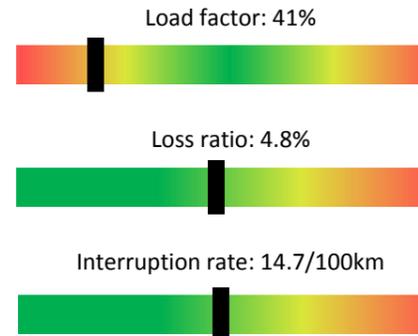
	2017 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$251m		+3.6%	11
Regulatory profit	\$14.8m		-4.7%	14
Return on investment	6.41%			23
Line charge revenue	\$40.7m		+2.6%	17
Other income	\$0.7m		+3.1%	9
Customer connections	18,986		+1.6%	21
Energy delivered	563 GWh		+2.5%	13
Peak demand	163 MW		+1.6%	9
Network capacity	571 MVA		+2.8%	8
Capital expenditure	\$20.6m		+4.0%	10
Operating expenditure	\$10.2m		+6.6%	18
Capital contributions	\$0.7m		-2.5%	17
Related party transactions	\$8.2m		-22.5%	18
Line length	3,080km		+1.0%	19
Outages - SAIDI	187 minutes		-39.2%	16
Outages - SAIFI	1.44 faults		-20.8%	9

Line charge revenues

	Proportion of revenue	Charges per unit	Rank
Average daily charge	5.8%	34.3¢/ICP	9
Delivery (kWh)	48.4%	3.5¢/kWh	4
Peak based	45.8%	\$114/kW	23

Year	Fixed	Delivery	Peak	Other
2014				
2017				

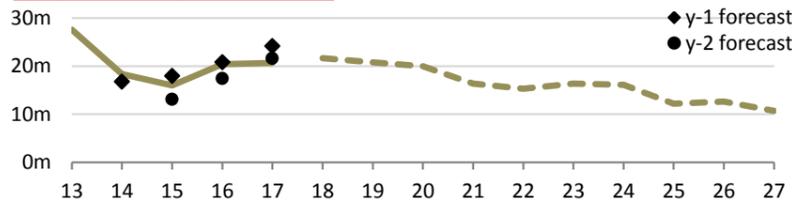
Network ratios



Company details

PQ Regulated?	Yes	Price breach:	No
		Quality breach:	No
CEO:	Gordon Guthrie		
Ownership:	Ashburton District Council Co-operative members		
Head Office:	22 JB Cullen Drive, Ashburton Business Estate		
Phone number:	03 307 9800		
Website:	www.eanetworks.co.nz		

Capital expenditure



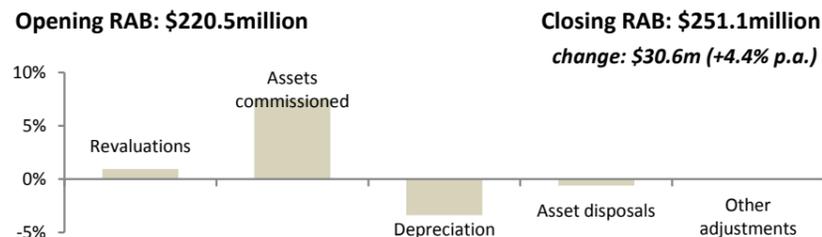
3 year ratios

Total capex / asset base	Total capex / connections	Total capex / depreciation
7.9% Rank: 16	\$1,015 Rank: 29	2.46 Rank: 26

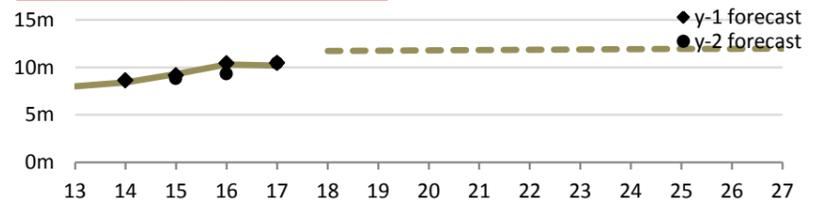
Capex by expenditure category

Category	Average (2015-2017)	5 year trend	% of capex
Asset replacement & renewal	\$5.9m		31.0%
System growth	\$4.6m		24.0%
Reliability, safety & environment	\$4.5m		23.5%
Consumer connection	\$3.1m		16.5%
Non-network assets	\$0.8m		4.2%
Asset relocations	\$0.1m		0.8%
Total capital expenditure	\$19.0m		100.0%
Related party transactions	\$13.2m		69.3%

Annualised RAB changes (2015-2017)



Operating expenditure



3 year ratios

Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$0.88 Rank: 5	\$387 Rank: 28	\$59 Rank: 3

Opex by expenditure category

Category	Average (2015-2017)	5 year trend	% of opex
Business support	\$3.9m		38.8%
System operations & network support	\$3.4m		34.2%
Asset replacement & renewal	\$0.9m		9.2%
Service interruptions & emergencies	\$0.7m		7.1%
Routine & corrective maintenance	\$0.6m		6.3%
Vegetation management	\$0.4m		4.4%
Total operating expenditure	\$9.9m		100.0%
Related party transactions	\$3.1m		31.3%

Lines and cables

Estimated state of the assets	Distribution & LV O/H lines	Distribution & LV U/G cables	Subtransmission lines and cables	Poles
Quantity	2,114km	565km	402km	29,148
RAB Value	\$47.0m	\$60.5m	\$14.1m	*
Average grade	3.35	3.59	3.70	3.32
Grade 1 / 2	5.1% / 4.6%	1.1% / 3.7%	0.6% / 2.6%	6.0% / 4.9%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	22 years	16 years	16 years	21 years
Over generic age	45km (2.1%)	1km (0.2%)	0km (0.1%)	2,194 (7.5%)
Unknown age	0.1%	0.0%	0.0%	0.0%
5yr replacement req (est)	7.4%	3.0%	1.9%	8.5%
5yr planned replacement	7.4%	3.0%	1.9%	8.5%
Forecast repex (ave)	\$2.2m +203%	\$3.7m +59%	\$1.0m +62%	*
Repex series				*

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

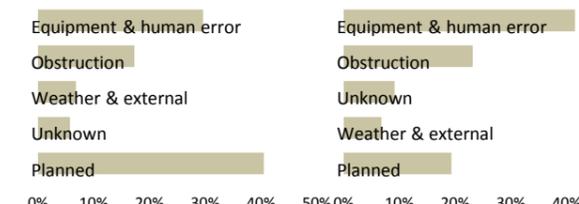
Switchgear and transformers

Estimated state of the assets	Distribution transformers	Distribution switchgear	Zone-substation transformers	Zone-substation switchgear
Quantity	7,372	8,317	34	382
RAB Value	\$55.6m	\$35.3m	<----- \$22.5m ----->	
Average grade	3.36	3.66	3.59	2.26
Grade 1 / 2	8.1% / 10.3%	2.3% / 2.1%	3.1% / 9.4%	5.6% / 3.6%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	20 years	12 years	23 years	20 years
Over generic age	938 (12.7%)	356 (4.3%)	7 (19.4%)	55 (14.5%)
Unknown age	0.2%	18.0%	0.0%	0.0%
5yr replacement req (est)	13.3%	3.4%	7.8%	7.4%
5yr planned replacement	13.3%	3.4%	7.8%	7.4%
Forecast repex (ave)	\$0.6m -68%	\$0.3m +59%	\$0.0m -98%	
Repex series				

Reliability

	Unplanned	Planned	Trend
Interruptions	219	234	
SAIDI	76.8	110.6	
SAIFI	1.04	0.40	
CAIDI	73.8	279.4	

SAIDI causes



SAIFI causes

