

# Network Waitaki

[Excel workbook](#)

Explanatory documentation: [Link](#)

Summary database: [Link](#)

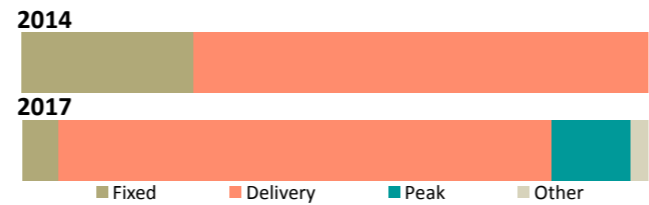
2017

## Summary statistics

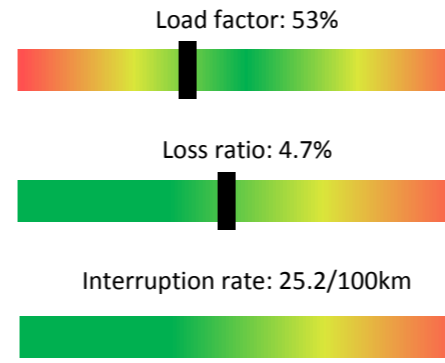
	2017 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$87m		+4.2%	24
Regulatory profit	\$3.9m		+11.4%	26
Return on investment	4.83%			27
Line charge revenue	\$16.4m		+4.9%	25
Other income	\$0.0m			27
Customer connections	12,710		+1.6%	25
Energy delivered	231 GWh		-0.1%	24
Peak demand	52 MW		+0.6%	24
Network capacity	218 MVA		+8.0%	23
Capital expenditure	\$9.5m		+18.7%	19
Operating expenditure	\$5.0m		+9.4%	24
Capital contributions	\$2.0m		+8.5%	14
Related party transactions	\$0.5m		-45.1%	23
Line length	1,879km		-0.5%	24
Outages - SAIDI	126 minutes		+9.7%	7
Outages - SAIFI	1.02 faults		-14.8%	6

## Line charge revenues

	Proportion of revenue	Charges per unit	Rank
Average daily charge	5.9%	20.8¢/ICP	5
Delivery (kWh)	78.7%	5.6¢/kWh	19
Peak based	12.5%	\$39/kW	13



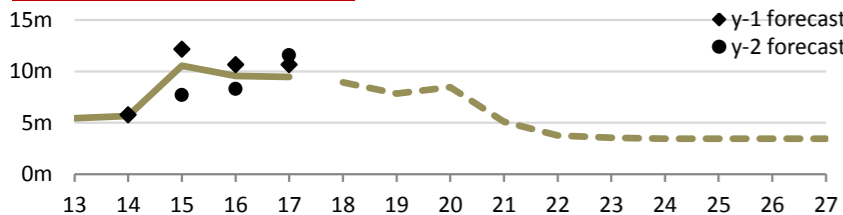
## Network ratios



## Company details

PQ Regulated?	No
CEO:	Graham Clark
Ownership:	Waitaki Power Trust
Head Office:	10 Chelmer Street; Oamaru
Phone number:	03 433 0065
Website:	<a href="http://www.networkwaitaki.co.nz">www.networkwaitaki.co.nz</a>

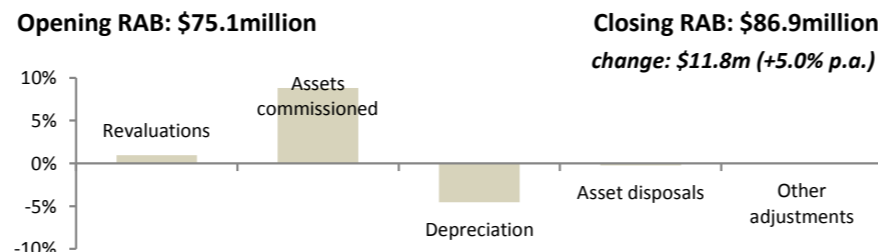
## Capital expenditure



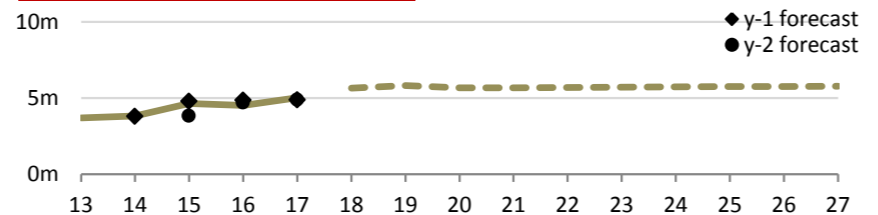
3 year ratios		
Total capex / asset base	Total capex / connections	Total capex / depreciation
12.1% Rank: 28	\$780 Rank: 27	2.83 Rank: 27

Capex by expenditure category	Average (2015-2017)	5 year trend	% of capex
System growth	\$5.0m		50.7%
Consumer connection	\$1.8m		18.6%
Asset replacement & renewal	\$1.3m		13.6%
Non-network assets	\$0.9m		9.4%
Reliability, safety & environment	\$0.8m		7.7%
Asset relocations	\$0.0m		0.0%
Total capital expenditure	\$9.9m		100.0%
Related party transactions	\$1.7m		17.0%

## Annualised RAB changes (2015-2017)



## Operating expenditure



3 year ratios		
Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$1.02 Rank: 7	\$220 Rank: 19	\$87 Rank: 10

Opex by expenditure category	Average (2015-2017)	5 year trend	% of opex
System operations & network support	\$1.5m		31.1%
Business support	\$1.3m		27.5%
Asset replacement & renewal	\$0.7m		14.0%
Routine & corrective maintenance	\$0.5m		11.5%
Service interruptions & emergencies	\$0.4m		8.0%
Vegetation management	\$0.4m		7.9%
Total operating expenditure	\$4.7m		100.0%
Related party transactions	\$0.5m		10.1%

## Lines and cables

Estimated state of the assets	Distribution & LV			
	O/H lines	U/G cables	Subtransmission lines and cables	Poles
Quantity	1,495km	161km	222km	22,582
RAB Value	\$26.0m	\$7.5m	\$11.3m	*
Average grade	2.91	3.01	3.25	2.94
Grade 1 / 2	4.2% / 0.6%	0.0% / 0.0%	0.0% / 0.0%	0.5% / 3.0%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	34 years	15 years	20 years	28 years
Over generic age	83km (5.5%)	3km (2.1%)	0km (0.0%)	1,942 (8.6%)
Unknown age	12.2%	18.9%	12.2%	45.4%
5yr replacement req (est)	4.5%	0.0%	0.0%	2.0%
5yr planned replacement	4.8%	0.0%	0.0%	5.0%
Forecast repex (ave)	\$0.8m +35%	\$0.0m -48%	\$0.1m -36%	*
Repex series				*

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

## Switchgear and transformers

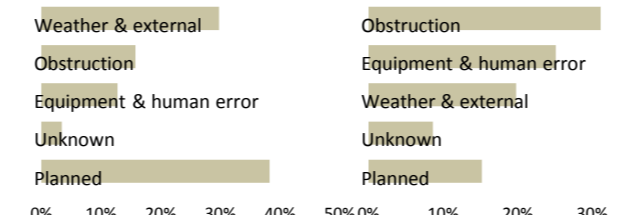
Estimated state of the assets	Distribution transformers			
	Distribution transformers	Distribution switchgear	Zone-substation transformers	Zone-substation switchgear
Quantity	2,837	3,804	22	211
RAB Value	\$16.1m	\$7.2m	<----- \$14.5m ----->	
Average grade	2.98	2.94	3.24	3.23
Grade 1 / 2	1.8% / 2.6%	0.9% / 4.1%	0.0% / 0.0%	0.0% / 3.3%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	19 years	17 years	23 years	18 years
Over generic age	197 (6.9%)	573 (15.1%)	7 (31.8%)	39 (18.3%)
Unknown age	2.7%	5.2%	0.0%	8.1%
5yr replacement req (est)	3.1%	3.0%	0.0%	1.6%
5yr planned replacement	4.5%	4.9%	0.0%	3.3%
Forecast repex (ave)	\$0.1m -55%	\$0.2m +277%	\$0.1m +428%	
Repex series				



## Reliability

	Unplanned	Planned	Trend
Interruptions	144	330	↑
SAIDI	33.9	91.6	↑
SAIFI	0.64	0.37	↓
CAIDI	52.7	246.5	↑

## SAIDI causes



## SAIFI causes

