

# Waipa Networks

[Excel workbook](#)

Explanatory documentation: [Link](#)

Summary database: [Link](#)

2017

## Summary statistics

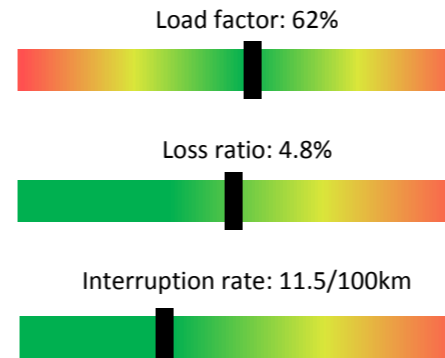
	2017 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$113m		+6.4%	22
Regulatory profit	\$6.8m		-1.4%	21
Return on investment	6.94%			21
Line charge revenue	\$26.4m		+5.4%	22
Other income	\$0.1m		+5.1%	22
Customer connections	25,614		+1.9%	16
Energy delivered	376 GWh		+2.7%	19
Peak demand	73 MW		+2.4%	18
Network capacity	292 MVA		+2.2%	19
Capital expenditure	\$8.1m		-1.5%	20
Operating expenditure	\$6.3m		+10.4%	23
Capital contributions	\$2.4m		-3.8%	13
Related party transactions	\$9.3m		+1.0%	17
Line length	2,187km		+1.4%	23
Outages - SAIDI	204 minutes		+18.3%	17
Outages - SAIFI	1.86 faults		-0.2%	16

## Line charge revenues

	Proportion of revenue	Charges per unit	Rank
Average daily charge	10.3%	29.2¢/ICP	8
Delivery (kWh)	84.6%	5.9¢/kWh	20
Peak based	0.0%	N/A	1

**2014**  
  
**2017**

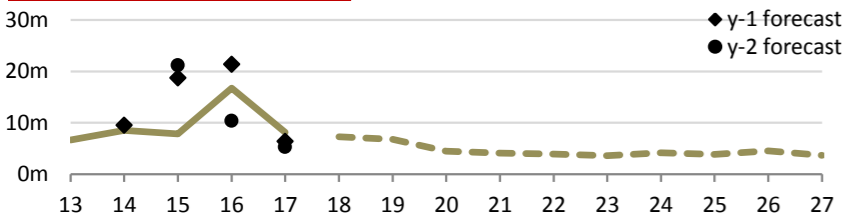
## Network ratios



## Company details

PQ Regulated?	No
CEO:	Adam Fletcher
Ownership:	Waipa Networks Trust
Head Office:	240 Harrison Drive; Te Awamutu
Phone number:	07 872 0745
Website:	<a href="http://www.waipanetworks.co.nz">www.waipanetworks.co.nz</a>

## Capital expenditure

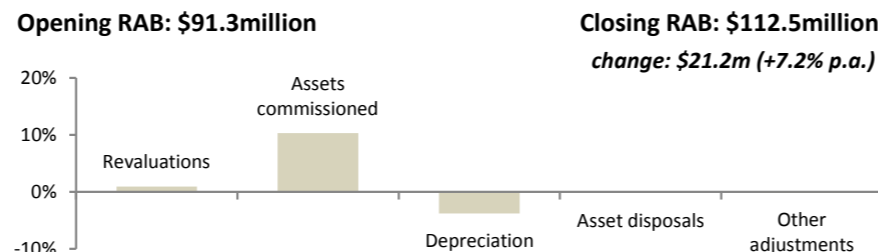


### 3 year ratios

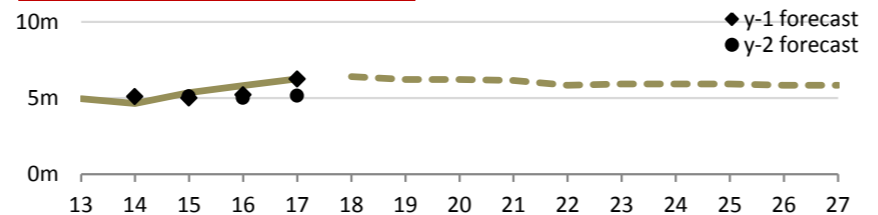
Total capex / asset base	Total capex / connections	Total capex / depreciation
11.0% Rank: 27	\$434 Rank: 15	3.17 Rank: 29

Capex by expenditure category	Average (2015-2017)	5 year trend	% of capex
Reliability, safety & environment	\$6.6m		60.7%
Consumer connection	\$2.4m		21.6%
Asset replacement & renewal	\$1.0m		9.5%
System growth	\$0.5m		4.6%
Asset relocations	\$0.3m		2.6%
Non-network assets	\$0.1m		1.1%
Total capital expenditure	\$10.9m		100.0%
Related party transactions	\$5.7m		52.0%

## Annualised RAB changes (2015-2017)



## Operating expenditure



### 3 year ratios

Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$1.32 Rank: 14	\$119 Rank: 3	\$81 Rank: 8

Opex by expenditure category	Average (2015-2017)	5 year trend	% of opex
Business support	\$1.9m		33.2%
System operations & network support	\$1.1m		18.2%
Service interruptions & emergencies	\$0.9m		15.3%
Routine & corrective maintenance	\$0.8m		14.2%
Vegetation management	\$0.6m		10.9%
Asset replacement & renewal	\$0.5m		8.3%
Total operating expenditure	\$5.8m		100.0%
Related party transactions	\$3.2m		54.7%

## Lines and cables

Estimated state of the assets

	Distribution & LV O/H lines	Distribution & LV U/G cables	Subtransmission lines and cables	Poles
Quantity	1,733km	418km	188km	22,016
RAB Value	\$29.1m	\$19.5m	\$18.0m	*
Average grade	3.01	0.96	0.00	3.15
Grade 1 / 2	0.0% / 0.5%	0.0% / 0.7%	0.0% / 0.0%	0.0% / 1.1%
Unknown grade	0.0%	68.7%	0.0%	0.0%
Average age	30 years	19 years	2 years	30 years
Over generic age	0km (0.0%)	6km (1.3%)	0km (0.0%)	352 (1.6%)
Unknown age	0.0%	0.0%	0.0%	0.0%
5yr replacement req (est)	0.3%	0.4%	0.0%	0.6%
5yr planned replacement	0.5%	0.1%	0.0%	4.7%
Forecast repex (ave)	\$0.0m -100%	\$0.0m -100%	\$0.0m	*
Repex series				*

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

## Switchgear and transformers

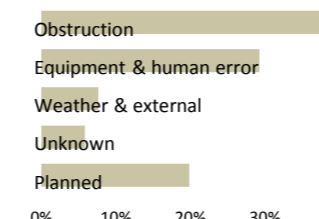
Estimated state of the assets

	Distribution transformers	Distribution switchgear	Zone-substation transformers	Zone-substation switchgear
Quantity	3,504	5,224	0	0
RAB Value	\$25.9m	\$13.7m	<----- \$0.0m ----->	
Average grade	3.10	3.13	.	.
Grade 1 / 2	0.0% / 3.5%	0.0% / 3.6%	.	.
Unknown grade	0.0%	0.0%	.	.
Average age	21 years	22 years	.	.
Over generic age	387 (11.1%)	1,658 (31.7%)	.	.
Unknown age	0.0%	0.0%	.	.
5yr replacement req (est)	1.7%	1.8%	.	.
5yr planned replacement	3.4%	3.6%	.	.
Forecast repex (ave)	\$0.5m +39%	\$0.0m -88%		\$0.0m
Repex series				

## Reliability

	Unplanned	Planned	Trend
Interruptions	156	95	↑
SAIDI	158.1	46.1	↑
SAIFI	1.68	0.18	↑
CAIDI	94.1	260.5	↑

### SAIDI causes



### SAIFI causes

