

# Industry

[Excel workbook](#)

Explanatory documentation: [Link](#)

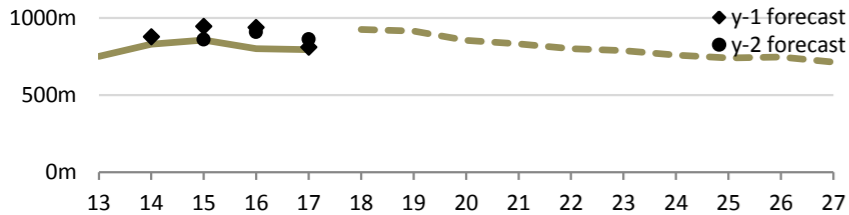
Summary database: [Link](#)

2017

## Summary statistics

	2017 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$11,062m		+2.7%	
Regulatory profit	\$768.0m		+4.8%	
Return on investment	7.53%			
Line charge revenue	\$2,521.3m		+2.5%	
Other income	\$24.1m		+0.8%	
Customer connections	2,087,897		+0.9%	
Energy delivered	31,369 GWh		+0.8%	
Peak demand	6,466 MW		+0.1%	
Network capacity	21,371 MVA		+1.9%	
Capital expenditure	\$793.7m		-1.5%	
Operating expenditure	\$564.2m		+2.1%	
Capital contributions	\$145.1m		+14.1%	
Related party transactions	\$456.2m		+15.2%	
Line length	153,044km		+0.8%	
Outages - SAIDI	299 minutes		+5.5%	
Outages - SAIFI	2.15 faults		+1.1%	

## Capital expenditure



3 year ratios		
Total capex / asset base	Total capex / connections	Total capex / depreciation
7.6% Rank:	\$395 Rank:	2.00 Rank:

Capex by expenditure category	Average (2015-2017)	5 year trend	% of capex
Asset replacement & renewal	\$303.5m		37.1%
Consumer connection	\$184.4m		22.6%
System growth	\$171.1m		20.9%
Reliability, safety & environment	\$69.5m		8.5%
Non-network assets	\$49.3m		6.0%
Asset relocations	\$39.6m		4.8%
Total capital expenditure	\$817.5m		100.0%
Related party transactions	\$225.4m		27.6%

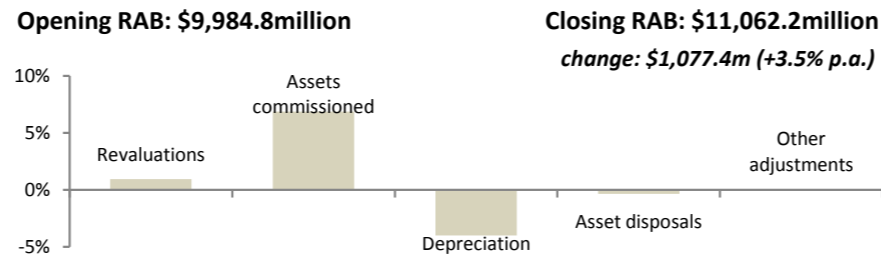
## Line charge revenues

	Proportion of revenue	Charges per unit	Rank
Average daily charge	20.0%	65.9¢/ICP	
Delivery (kWh)	58.7%	4.7¢/kWh	
Peak based	21.1%	\$82/kW	

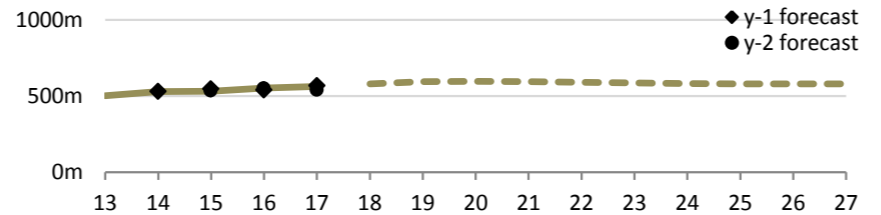
  

Year	Fixed	Delivery	Peak	Other
2014				
2017				

## Annualised RAB changes (2015-2017)



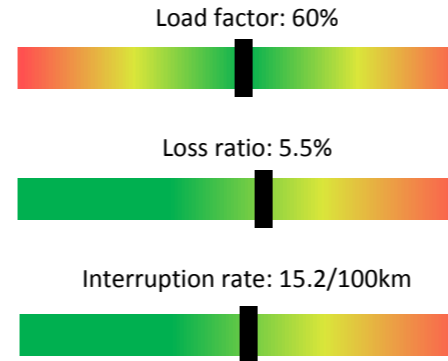
## Operating expenditure



3 year ratios		
Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$1.50 Rank:	\$156 Rank:	\$85 Rank:

Opex by expenditure category	Average (2015-2017)	5 year trend	% of opex
Business support	\$190.4m		34.7%
System operations & network support	\$131.2m		23.9%
Routine & corrective maintenance	\$79.2m		14.4%
Service interruptions & emergencies	\$64.0m		11.7%
Asset replacement & renewal	\$44.4m		8.1%
Vegetation management	\$40.3m		7.3%
Total operating expenditure	\$549.5m		100.0%
Related party transactions	\$162.5m		29.6%

## Network ratios



## Company details

PQ Regulated?	-
Ownership:	-
Head Office:	New Zealand
Phone number:	-
Website:	-

## Lines and cables

Estimated state of the assets	Distribution & LV			
	O/H lines	U/G cables	Subtransmission lines and cables	Poles
Quantity	99,149km	42,022km	11,799km	1,357,231
RAB Value	\$2,247.1m	\$2,662.1m	\$1,291.4m	*
Average grade	3.12	3.63	3.16	3.41
Grade 1 / 2	5.7% / 3.9%	0.4% / 1.1%	2.3% / 4.1%	1.5% / 3.9%
Unknown grade	8.2%	2.9%	6.4%	5.2%
Average age	36 years	25 years	34 years	33 years
Over generic age	7,662km (7.7%)	466km (1.1%)	1,140km (9.7%)	155,276 (11.4%)
Unknown age	1.5%	0.8%	1.2%	3.2%
5yr replacement req (est)	7.6%	0.9%	4.4%	3.4%
5yr planned replacement	4.4%	0.9%	4.1%	5.4%
Forecast repex (ave)	\$162.2m +33%	\$28.7m +23%	\$27.9m +3%	*
Repex series				*

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

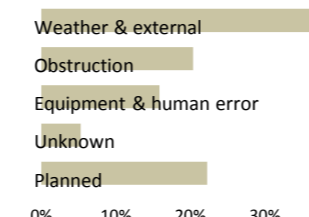
## Switchgear and transformers

Estimated state of the assets	Distribution transformers			
	Distribution transformers	Distribution switchgear	Zone-substation transformers	Zone-substation switchgear
Quantity	186,503	214,693	1,280	12,076
RAB Value	\$1,451.7m	\$776.3m	<---- \$1,341.6m ---->	
Average grade	3.41	3.20	3.22	3.21
Grade 1 / 2	2.1% / 3.8%	2.7% / 5.8%	1.8% / 9.2%	4.0% / 5.9%
Unknown grade	4.1%	5.7%	0.0%	1.7%
Average age	24 years	22 years	31 years	23 years
Over generic age	27,596 (14.8%)	51,784 (24.1%)	531 (41.5%)	3,623 (30.0%)
Unknown age	0.4%	6.0%	0.2%	0.9%
5yr replacement req (est)	4.0%	5.6%	6.4%	6.9%
5yr planned replacement	6.0%	7.4%	7.1%	12.2%
Forecast repex (ave)	\$40.9m +7%	\$37.2m +21%	\$69.5m +60%	
Repex series				

## Reliability

	Unplanned	Planned	Trend
Interruptions	12,966	10,363	↑
SAIDI	222.9	76.4	↑
SAIFI	1.80	0.35	↑
CAIDI	123.8	219.8	↑

## SAIDI causes



## SAIFI causes

