

# Industry

[Excel workbook](#)

Explanatory documentation: [Link](#)

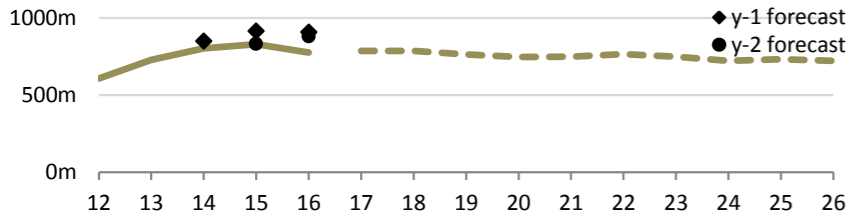
Summary database: [Link](#)

2016

## Summary statistics

	2016 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$10,554m		+2.2%	
Regulatory profit	\$621.2m		-0.8%	
Return on investment	6.29%			
Line charge revenue	\$2,482.4m		+2.6%	
Other income	\$21.7m		-11.4%	
Customer connections	2,066,129		+0.7%	
Energy delivered	31,785 GWh		+0.8%	
Peak demand	6,571 MW		+1.8%	
Network capacity	21,055 MVA		+1.8%	
Capital expenditure	\$776.8m		+2.2%	
Operating expenditure	\$544.0m		+3.3%	
Capital contributions	\$114.6m		+9.2%	
Related party transactions	\$370.0m		+10.0%	
Line length	152,148km		+0.8%	
Outages - SAIDI	192 minutes		+9.8%	
Outages - SAIFI	2.03 faults		+4.4%	

## Capital expenditure

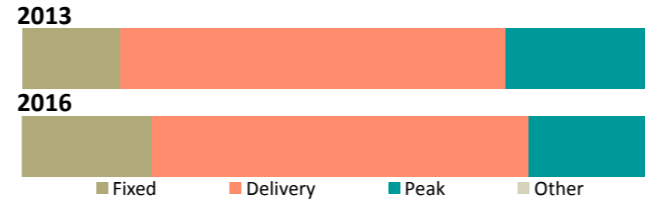


3 year ratios		
Total capex / asset base	Total capex / connections	Total capex / depreciation
7.8% Rank:	\$392 Rank:	2.01 Rank:

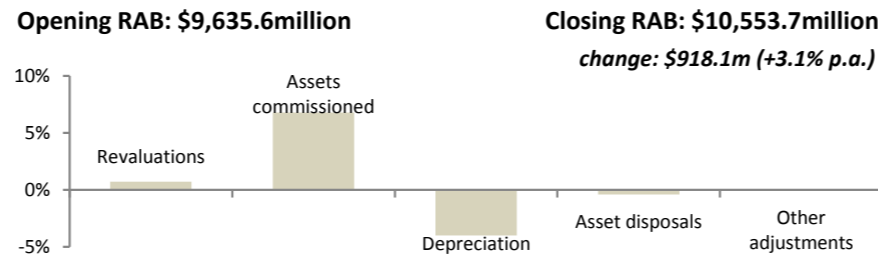
Capex by expenditure category	Average (2014-2016)	5 year trend	% of capex
Asset replacement & renewal	\$270.6m		33.7%
System growth	\$203.5m		25.3%
Consumer connection	\$160.5m		20.0%
Reliability, safety & environment	\$74.7m		9.3%
Non-network assets	\$58.2m		7.2%
Asset relocations	\$36.0m		4.5%
Total capital expenditure	\$803.5m		100.0%
Related party transactions	\$177.8m		22.1%

## Line charge revenues

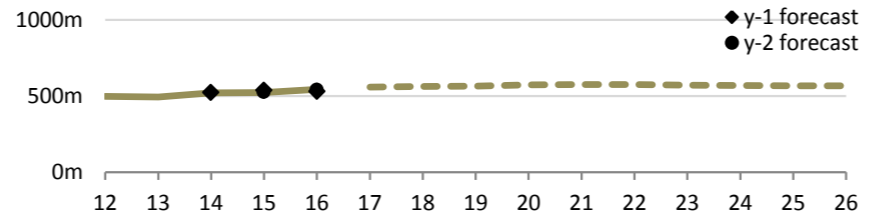
	Proportion of revenue	Charges per unit	Rank
Average daily charge	20.6%	65.4¢/ICP	
Delivery (kWh)	60.2%	4.5¢/kWh	
Peak based	19.8%	\$72/kW	



## Annualised RAB changes (2014-2016)



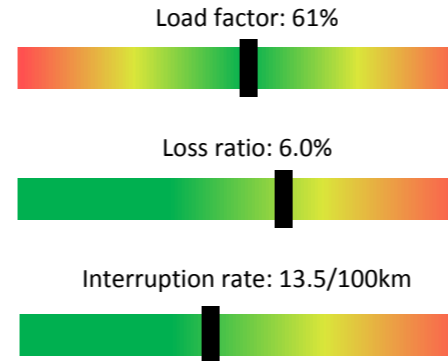
## Operating expenditure



3 year ratios		
Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$1.46 Rank:	\$151 Rank:	\$82 Rank:

Opex by expenditure category	Average (2014-2016)	5 year trend	% of opex
Business support	\$181.0m		34.2%
System operations & network support	\$128.1m		24.2%
Routine & corrective maintenance	\$75.7m		14.3%
Service interruptions & emergencies	\$63.2m		11.9%
Asset replacement & renewal	\$44.5m		8.4%
Vegetation management	\$37.2m		7.0%
Total operating expenditure	\$529.5m		100.0%
Related party transactions	\$151.5m		28.6%

## Network ratios



## Company details

PQ Regulated?	-
CEO:	-
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	99,301km	41,149km	11,619km	1,346,408
RAB Value	\$2,149.8m	\$2,583.7m	\$1,250.4m	*
Average grade	3.14	3.61	3.17	3.38
Grade 1 / 2	4.5% / 5.9%	0.3% / 1.3%	2.4% / 5.2%	1.5% / 5.1%
Unknown grade	7.9%	2.9%	8.5%	5.9%
Average age	35 years	25 years	34 years	32 years
Over expected life	7,036km (7.1%)	425km (1.0%)	1,055km (9.1%)	148,223 (11.0%)
Unknown age	3.7%	1.9%	3.1%	4.1%
5yr replacement req (est)	7.4%	1.0%	4.9%	4.0%
5yr planned replacement	4.1%	0.9%	2.9%	4.9%
Forecast repex (ave)	\$123.6m +14%	\$29.0m +34%	\$27.0m +21%	*
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	186,813	213,391	1,261	11,958
RAB Value	\$1,409.8m	\$712.5m	<----- \$1,254.8m ----->	
Average grade	3.36	3.19	3.20	3.24
Grade 1 / 2	3.0% / 4.2%	2.7% / 4.6%	2.7% / 8.3%	3.9% / 6.2%
Unknown grade	4.7%	7.0%	0.2%	1.8%
Average age	24 years	22 years	30 years	24 years
Over expected life	27,210 (14.6%)	51,644 (24.2%)	489 (38.8%)	3,704 (31.0%)
Unknown age	0.4%	6.1%	0.2%	2.5%
5yr replacement req (est)	5.0%	5.0%	6.8%	7.1%
5yr planned replacement	6.0%	7.3%	6.4%	7.0%
Forecast repex (ave)	\$37.3m +14%	\$38.4m +42%	\$49.0m +15%	
Repex series				

## Reliability

	Unplanned		Planned	Trend	SAIDI causes				SAIFI causes						
	Interruptions	SAIDI			SAIFI	CAIDI	Equipment & human error	Weather & external	Obstruction	Unknown	Planned	Equipment & human error	Weather & external	Obstruction	Unknown
Interruptions	11,568	9,016		↑											
SAIDI	133.1	58.5		↑											
SAIFI	1.76	0.26		↑											
CAIDI	75.4	223.5		↑											