

# Electricity Invercargill

[Excel workbook](#)

Explanatory documentation: [Link](#)

Summary database: [Link](#)

2017

## Summary statistics

	2017 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$80m		+6.8%	25
Regulatory profit	\$5.5m		+4.2%	23
Return on investment	7.31%			19
Line charge revenue	\$20.1m		+3.0%	24
Other income	\$0.0m		+4.2%	24
Customer connections	17,364		+0.3%	22
Energy delivered	254 GWh		-0.6%	23
Peak demand	61 MW		+0.3%	22
Network capacity	151 MVA		+0.1%	25
Capital expenditure	\$3.8m		-8.6%	24
Operating expenditure	\$4.8m		-0.7%	25
Capital contributions	\$0.0m		-11.3%	23
Related party transactions	\$7.3m		-6.1%	19
Line length	665km		+0.4%	27
Outages - SAIDI	18 minutes		-10.5%	1
Outages - SAIFI	0.32 faults		-15.3%	2

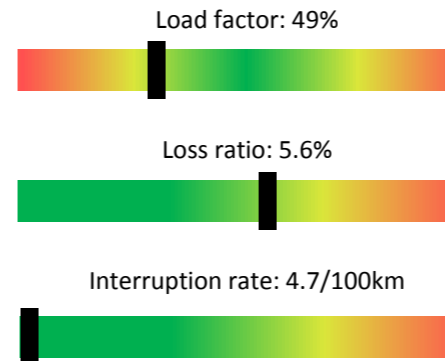
## Line charge revenues

	Proportion of revenue	Charges per unit	Rank
Average daily charge	33.9%	107.5¢/ICP	22
Delivery (kWh)	66.1%	5.2¢/kWh	16
Peak based	0.0%	N/A	1

**2014**

**2017**

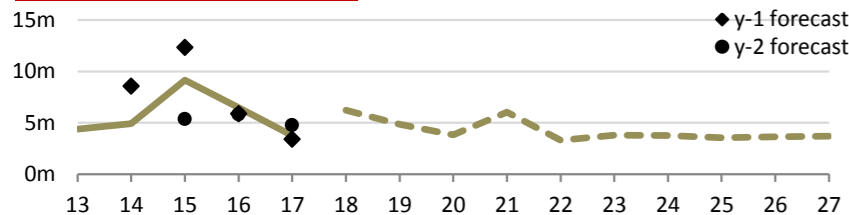
## Network ratios



## Company details

PQ Regulated?	Yes	Price breach:	No
CEO:	Jason Franklin (Powernet)	Quality breach:	2012
Ownership:	Invercargill City Council 100%		
Head Office:	251 Racecourse Road; Invercargill		
Phone number:	03 211 1899		
Website:	<a href="http://www.eil.co.nz">www.eil.co.nz</a>		

## Capital expenditure

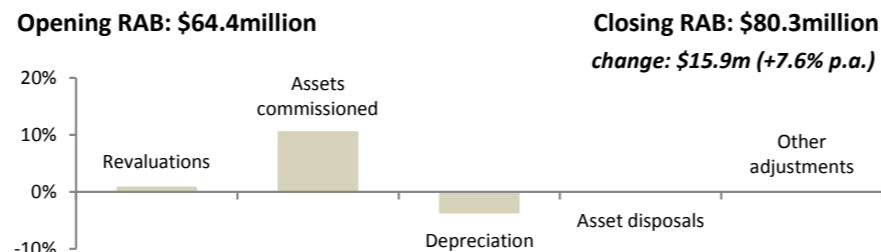


### 3 year ratios

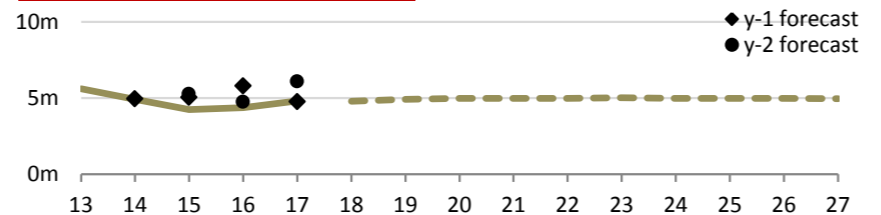
Total capex / asset base	Total capex / connections	Total capex / depreciation
8.3% Rank: 18	\$373 Rank: 12	2.36 Rank: 24

Capex by expenditure category	Average (2015-2017)	5 year trend	% of capex
System growth	\$3.5m		53.8%
Asset replacement & renewal	\$2.5m		38.4%
Consumer connection	\$0.3m		3.9%
Reliability, safety & environment	\$0.2m		3.8%
Asset relocations	\$0.0m		0.0%
Non-network assets	\$0.0m		0.0%
Total capital expenditure	\$6.5m		100.0%
Related party transactions	\$6.5m		100.0%

## Annualised RAB changes (2015-2017)



## Operating expenditure



### 3 year ratios

Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$2.04 Rank: 22	\$180 Rank: 14	\$73 Rank: 6

Opex by expenditure category	Average (2015-2017)	5 year trend	% of opex
Business support	\$2.2m		48.7%
System operations & network support	\$0.9m		21.0%
Routine & corrective maintenance	\$0.7m		15.9%
Service interruptions & emergencies	\$0.6m		12.4%
Asset replacement & renewal	\$0.1m		1.9%
Vegetation management	\$0.0m		0.0%
Total operating expenditure	\$4.5m		100.0%
Related party transactions	\$3.3m		73.4%

## Lines and cables

Estimated state of the assets

	Distribution & LV O/H lines	Distribution & LV U/G cables	Subtransmission lines and cables	Poles
Quantity	53km	583km	28km	967
RAB Value	\$2.0m	\$39.4m	\$7.2m	*
Average grade	2.82	2.97	3.16	2.80
Grade 1 / 2	3.7% / 15.6%	2.0% / 3.3%	0.0% / 0.0%	3.3% / 26.5%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	32 years	29 years	29 years	38 years
Over generic age	1km (1.8%)	4km (0.6%)	0km (0.0%)	259 (26.7%)
Unknown age	0.6%	0.4%	2.2%	0.7%
5yr replacement req (est)	11.5%	3.6%	0.0%	16.6%
5yr planned replacement	5.0%	5.0%	0.0%	6.7%
Forecast repex (ave)	\$0.2m -25%	\$0.1m -77%	\$0.0m	*
Repex series				*

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

## Switchgear and transformers

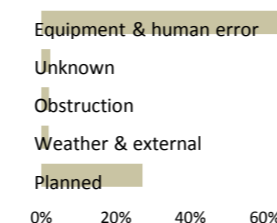
Estimated state of the assets

	Distribution transformers	Distribution switchgear	Zone-substation transformers	Zone-substation switchgear
Quantity	444	561	6	78
RAB Value	\$9.2m	\$4.2m	<----- \$15.0m ----->	
Average grade	2.96	2.80	3.33	2.43
Grade 1 / 2	5.0% / 9.0%	9.1% / 11.6%	0.0% / 17.0%	26.0% / 19.7%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	22 years	24 years	24 years	27 years
Over generic age	59 (13.2%)	99 (17.7%)	2 (30.0%)	31 (40.1%)
Unknown age	0.0%	3.7%	0.0%	5.1%
5yr replacement req (est)	9.4%	14.8%	8.5%	35.8%
5yr planned replacement	5.1%	11.0%	0.0%	23.4%
Forecast repex (ave)	\$2.2m +415%	\$0.0m -100%		\$1.3m +37%
Repex series				

## Reliability

	Unplanned	Planned	Trend
Interruptions	11	20	↑
SAIDI	9.2	8.8	↓
SAIFI	0.27	0.05	↑
CAIDI	34.5	171.6	↓

### SAIDI causes



### SAIFI causes

