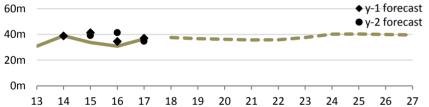
# **Wellington Electricity**

**Summary statistics** 2017 5 year 3 year Rank value trend **CAGR** Regulatory asset base \$603m +1.1% 4 +1.2% 5 Regulatory profit \$45.1m Return on investment 8.03% 14 \$171.9m +0.9% 4 Line charge revenue \$0.9m +16.3% 8 Other income **Customer connections** 166,344 +0.3% 4 Energy delivered 2,325 GWh -0.6% 4 576 MW Peak demand +1.0% 1.374 MVA +0.9% Network capacity 4 Capital expenditure \$36.4m -2.2% 5 Operating expenditure \$30.1m -0.2% Capital contributions \$7.3m +14.1% 4 -1.6% 11 Related party transactions \$13.5m Line length 4,701km +0.4% 10 -11.9% 9 **Outages - SAIDI** 131 minutes Outages - SAIFI 0.92 faults -5.6% 5

### **Capital expenditure**



3 year ratios							
	Total capex / Total capex / Total capex /						
asset base		conr	nections	dep	reciation		
5.6%	Rank: 6	\$203	Rank: 3	1.39	Rank: 7		

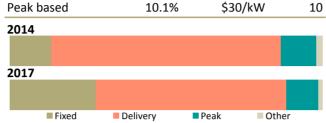
3.0%	Natik. U	Ş2U3	Natik. 3	1.35	Naik. /
Capex by expenditure category			Average (2015–2017)	5 year trend	% of capex
Asset replacement & renewal			\$20.7m		61.5%
Consumer connection			\$6.6m		19.5%
System growth			\$2.2m		6.5%
Asset reloca	tions		\$2.0m		5.8%
Non-networ	k assets		\$1.2m	<b>/</b> /	3.4%
Reliability, sa	afety & enviro	nment	\$1.1m	~	3.2%
Total capital	expenditure		\$33.7m		100.0%
Related party transactions			\$1.9m		5.8%

#### Excel workbook

#### Explanatory documentation: Link

#### Line charge revenues

Prop	portion of	Charges	Rank	
	revenue	per unit		
Average daily charge	27.4%	77.7¢/ICP	18	
Delivery (kWh)	61.0%	4.5¢/kWh	11	
Peak based	10.1%	\$30/kW	10	
2014				



#### **Network ratios**



### **Company details**

Summary database: Link

PQ Regulated? Yes Price breach: 2012

Quality breach: 2013, 2014

2017

CEO: Greg Skelton

Ownership: Cheung Kong Infrastructure

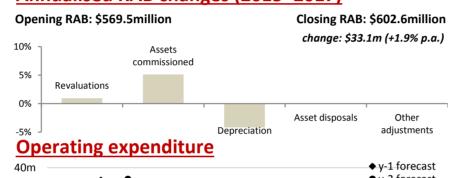
and Power Assets Holdings

**Head Office:** 75 The Esplanade; Petone, Lower Hutt

**Phone number:** 04 915 6100

Website: <u>www.welectricity.co.nz</u>

# Annualised RAB changes (2015-2017)





3 year ratios						
Netwo	ork opex /	Non-network opex /		Total opex /		
metre of line		con	nections		kW	
\$2.77	Rank: 29	\$95	Rank: 1	\$51	Rank: 1	

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

Opex by expenditure category	Average (2015–2017)	5 year trend	% of opex
Business support	\$11.5m		40.1%
Routine & corrective maintenance	\$7.3m		25.4%
System operations & network support	\$4.3m		14.8%
Service interruptions & emergencies	\$3.4m	<u></u>	11.8%
Vegetation management	\$1.3m		4.6%
Asset replacement & renewal	\$1.0m		3.4%
Total operating expenditure	\$28.8m		100.0%
Related party transactions	\$11.8m		41.0%

### **Lines and cables**

Estimated state					
of the assets	Distribution & LV O/H lines	Distribution & LV U/G cables	Subtransmission lines and cables	Poles	
Quantity	1,678km	2,829km	195km	37,801	
RAB Value	\$138.3m	\$211.9m	\$56.9m	*	
Average grade	2.93	3.20	3.06	3.48	
Grade 1 / 2	0.1% / 15.0%	0.7% / 3.8%	0.6% / 9.6%	0.3% / 3.2%	
Unknown grade	0.0%	0.0%	0.0%	2.9%	
Average age	44 years	38 years	39 years	30 years	
Over generic age	146km (8.7%)	107km (3.8%)	0km (0.2%)	5,442 (14.4%)	
Unknown age	0.0%	0.0%	0.0%	0.0%	
5yr replacement req (es	st) 7.7%	2.5%	5.3%	1.9%	
5yr planned replaceme	nt 1.0%	1.2%	1.7%	5.6%	
Forecast repex (ave)	\$6.6m -31%	\$1.2m +20%	\$0.3m +181%	*	
Repex series	<b>—</b> ·····	<b>^</b>	<b>/</b> ·········	*	

<sup>\*</sup> RAB and expenditure on poles is included within Distribution and LV lines

## **Switchgear and transformers**

Estimated state				
	Distribution ransformers	Distribution switchgear	Zone-substation transformers	Zone-substation switchgear
Quantity	4,307	5,856	52	358
RAB Value	\$91.5m	\$32.2m	<\$	51.8m>
Average grade	3.33	3.06	2.77	3.26
Grade 1 / 2	1.0% / 1.8%	2.7% / 16.4%	3.9% / 15.4%	0.0% / 3.8%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	30 years	30 years	48 years	37 years
Over generic age	1,402 (32.6%)	2,493 (42.6%)	43 (83.5%)	240 (67.2%)
Unknown age	0.0%	0.0%	0.0%	0.0%
5yr replacement req (est)	1.9%	11.0%	11.5%	1.9%
5yr planned replacement	3.0%	6.6%	3.9%	3.8%
Forecast repex (ave)	\$2.4m -32%	\$3.4m +24%	\$2.5	5m -25%
Repex series	··	<b>~</b> ····································	^	



#### Reliability Trend Unplanned Planned 1 Interruptions 177 305 SAIDI 123.2 7.4 SAIFI 0.84 0.08 CAIDI 146.4 92.2

