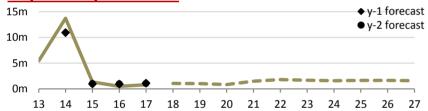
# **Nelson Electricity**

-					
Summary statistics	2017 value	5 year trend	3 year CAGR	Rank	
Regulatory asset base	\$41m		-1.5%	27	
Regulatory profit	\$3.4m		+6.1%	28	
Return on investment	8.67%	$\checkmark$		8	
Line charge revenue	\$10.4m		+1.3%	27	
Other income	\$0.0m		-42.4%	26	
Customer connections	9,203		+0.1%	26	
Energy delivered	140 GWh		-0.6%	26	
Peak demand	33 MW		-0.4%	26	
Network capacity	97 MVA		+0.6%	26	
Capital expenditure	\$0.8m		-61.1%	29	
Operating expenditure	\$2.0m		-4.1%	29	
Capital contributions	\$0.1m		-18.9%	22	
Related party transactions	\$0.2m	~	-10.6%	24	
Line length	295km		+3.4%	29	
Outages - SAIDI	36 minutes	$\searrow$	+17.5%	2	
Outages - SAIFI	0.23 faults		-22.4%	1	

#### **Capital expenditure**



		Total capex / depreciation	
\$96	Rank: 1	0.63	Rank: 2
	Average (2015–2017)	5 year trend	% of capex
wal	\$0.5m		55.7%
	\$0.3m	$\sim$	38.3%
	\$0.0m	$\sim$	2.1%
	\$0.0m	~	2.1%
nment	\$0.0m		1.7%
	\$0.0m		0.0%
	\$0.9m	$\sim$	100.0%
ctions	\$0.0m		0.0%
	coi \$96 wal	Average (2015–2017) wal \$0.5m \$0.3m \$0.0m \$0.0m \$0.0m \$0.0m \$0.0m \$0.0m	connections depresented   \$96 Rank: 1 0.63   Average (2015–2017) 5 year trend   wal \$0.5m 50.3m   \$0.0m \$0.0m 50.0m   \$0.0m \$0.0m \$0.0m   \$0.0m \$0.0m \$0.0m

#### Excel workbook

Line charge revenues

Average daily charge

Fixed

Opening RAB: \$42.2million

**Operating expenditure** 

8 .

Network opex /

metre of line

Opex by expenditure

Business support

Rank: 20

System operations & network support Routine & corrective maintenance

Service interruptions & emergencies

Related party transactions

Asset replacement & renewal

Total operating expenditure

Vegetation management

Revaluations

Delivery (kWh)

Peak based

2014

2017

4%

2%

0%

-2%

-4%

3m

2m

1m

0m

**3** year ratios

\$1.82

category

**Proportion of** 

Delivery

revenue

7.4%

49.2%

43.4%

Annualised RAB changes (2015–2017)

Assets commissioned

Explanatory documentation: Link

Other

Rank

6

6

25

Asset disposals

Closing RAB: \$41.2million

change: \$-1.0m (-0.8% p.a.)

Other

adjustments

♦ y-1 forecast

• y-2 forecast

Total opex /

kW

Rank: 2

% of

opex

51.4%

20.8%

14.9%

6.7%

4.0%

2.3%

100.0%

10.5%

40%

\$57

5 year

trend

Charges

per unit

22.8¢/ICP

3.7¢/kWh

\$136/kW

Depreciation

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

Non-network opex /

connections

Rank: 11

(2015 - 2017)

Average

\$1.0m

\$0.4m

\$0.3m

\$0.1m

\$0.1m

\$0.0m

\$1.9m

\$151

Peak

**Network ratios** 

Load factor: 50%

Loss ratio: 3.7%

Interruption rate: 5.8/100km

Summary database: Link

### **Company details**

PQ Regulated?

General Manager: **Ownership:** 

**Head Office:** Phone number: Website:

#### **Lines and cables**

Estimated state				
of the assets	Distribution & LV O/H lines	Distribution & LV U/G cables	Subtransmission lines and cables	Poles
Quantity	30km	247km	17km	894
RAB Value	\$0.5m	\$15.3m	\$5.6m	*
Average grade	3.02	3.09	3.00	3.08
Grade 1 / 2	0.0% / 0.0%	0.0% / 14.0%	0.0% / 0.0%	0.0% / 12.3%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	45 years	31 years	20 years	37 years
Over generic age	1km (4.2%)	2km (0.8%)	0km (0.0%)	99 (11.1%)
Unknown age	1.1%	8.7%	0.0%	6.7%
5yr replacement req (e	st) 0.0%	7.0%	0.0%	6.1%
5yr planned replaceme	nt 2.4%	1.8%	0.0%	1.0%
Forecast repex (ave)	\$0.0m -100%	\$0.6m +361%	\$0.0m -100%	*
Repex series			$\searrow$	*

#### Switchgear and transformers

Estimated state of the assets				
	Distribution	Distribution	Zone-substation	Zone-substation
	transformers	switchgear	transformers	switchgear
Quantity	199	363	3	36
RAB Value	\$3.9m	\$2.1m	< \$	510.0m>
Average grade	3.09	3.52	4.00	2.89
Grade 1 / 2	0.0% / 9.2%	0.0% / 3.2%	0.0% / 0.0%	0.0% / 0.0%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	17 years	22 years	3 years	3 years
Over generic age	8 (3.9%)	55 (15.3%)	0 (0.0%)	0 (0.0%)
Unknown age	0.5%	0.0%	0.0%	0.0%
5yr replacement req (est	t) 4.6%	1.6%	0.0%	0.0%
5yr planned replacemen	t 5.2%	2.8%	0.0%	0.0%
Forecast repex (ave)	\$0.0m -100%	\$0.1m +1327%	\$0.0	)m -100%
Repex series			1.	₽ ●

### Reliability

$\sim$	COMMERCE COMMISSION
	NEW ZEALAND Te Komihana Tauhokohoko

	Unplanned	Planned	Trend
Interruptions	5	12	<b>1</b>
SAIDI	27.4	8.8	<b>1</b>
SAIFI	0.17	0.07	<b>1</b>
CAIDI	164.2	134.1	

SAIDI causes					
Weather	& external				
Equipmer	nt & human	error			
Unknown					
Obstructi	on				
Planned					
0%	20%	40%			

\$0.2m		10.
	SAIFI causes	
	Weather & external	
r	Equipment & human e	error

20%

Unknown

Obstruction

60%0%

# 2017

Yes Price breach: No Quality breach: No Phil Goodall Network Tasman (50%) Marlborough Lines (50%)

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