

# Unison Networks

drop-down to change

Explanatory documentation: [Link](#)

Summary database: [Link](#)

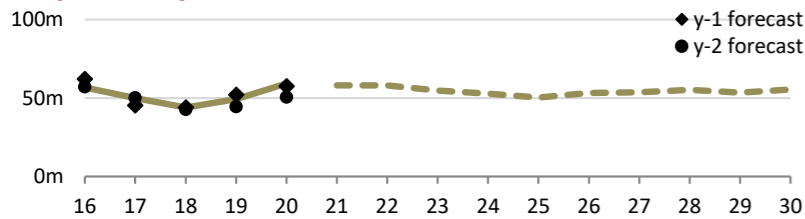
Performance Accessibility Tool: [Link](#)

2020

## Summary statistics

	2020 value	5 year trend	3 year CAGR	Rank
Regulatory asset base	\$657m		+2.5%	5
Regulatory profit	\$45.2m		-2.2%	6
Return on investment	7.58%		-4.3%	12
Line charge revenue	\$150.2m		-1.2%	5
Other income	\$1.9m		+10.4%	4
Customer connections	114,599		+0.8%	5
Energy delivered	1,636 GWh		+1.1%	5
Peak demand	329 MW		+0.6%	5
Network capacity	738 MVA		-13.0%	7
Capital expenditure	\$59.2m		+5.8%	5
Operating expenditure	\$43.2m		+4.5%	5
Capital contributions	\$9.0m		+9.2%	5
Related party transactions	\$46.2m		+4.8%	3
Line length	9,313km		+0.5%	4
Outages - SAIDI	119 minutes		-18.0%	23
Outages - SAIFI	2.13 faults		-1.4%	14

## Capital expenditure



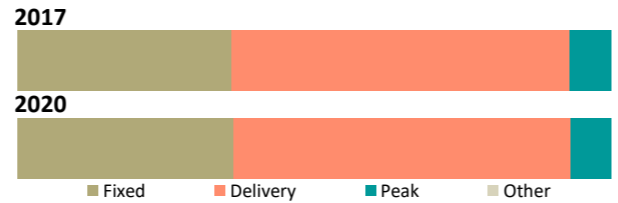
### 3 year ratios

Total capex / asset base	Total capex / connections	Total capex / depreciation
8.0% Rank: 11	\$447 Rank: 16	1.87 Rank: 17

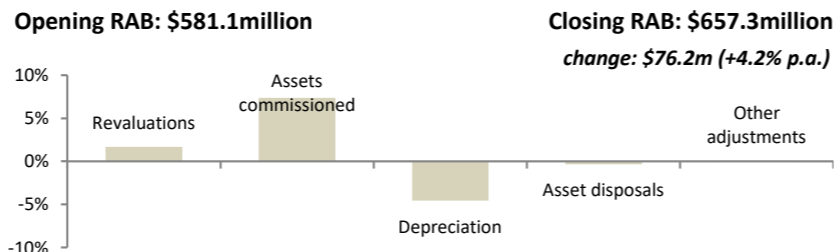
Capex by expenditure category	Average (2018–2020)	5 year trend	% of capex
Asset replacement & renewal	\$23.0m		45.3%
Consumer connection	\$13.3m		26.1%
Non-network assets	\$9.0m		17.7%
Reliability, safety & environment	\$3.3m		6.6%
Asset relocations	\$1.4m		2.8%
System growth	\$0.8m		1.5%
Total capital expenditure	\$50.9m		100.0%
Related party transactions	\$26.9m		53.0%

## Line charge revenues

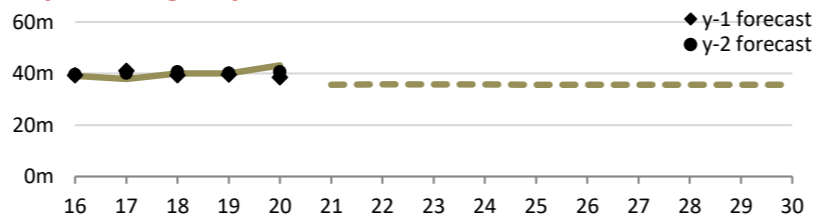
	Proportion of revenue	Charges per unit	Rank
Average daily charge	36.3%	130.3¢/ICP	6
Delivery (kWh)	56.8%	5.2¢/kWh	14
Peak based	6.9%	\$31/kW	15



## Annualised RAB changes (2018–2020)



## Operating expenditure



### 3 year ratios

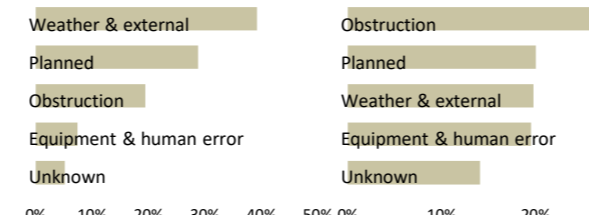
Network opex / metre of line	Non-network opex / connections	Total opex / kW
\$1.21 Rank: 25	\$263 Rank: 13	\$123 Rank: 15

Opex by expenditure category	Average (2018–2020)	5 year trend	% of opex
Business support	\$21.4m		52.0%
System operations & network support	\$8.5m		20.7%
Service interruptions & emergencies	\$4.1m		10.0%
Routine & corrective maintenance	\$2.9m		6.9%
Asset replacement & renewal	\$2.5m		6.0%
Vegetation management	\$1.8m		4.4%
Total operating expenditure	\$41.1m		100.0%
Related party transactions	\$16.3m		39.6%

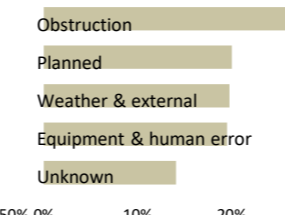
## Reliability

	Unplanned	Planned	Trend
Interruptions	737	1,049	
SAIDI	62.1	57.3	
SAIFI	1.60	0.53	
CAIDI	38.7	109.0	

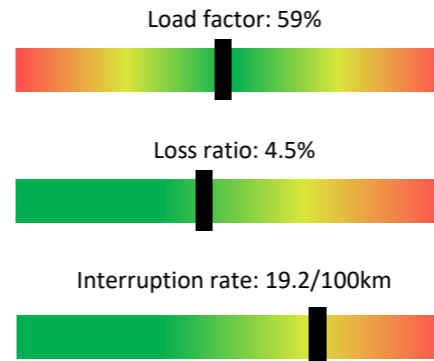
### SAIDI causes



### SAIFI causes



## Network ratios



## Company details

PQ Regulated?	Yes	Price breach: No
		Quality breach: 2018
CEO:	Ken Sutherland	
Ownership:	Hawke's Bay Power Consumers' Trust	
Head Office:	1101 Omahu Road, Hastings	
Phone number:	06 873 9300	
Website:	<a href="http://www.unison.co.nz">www.unison.co.nz</a>	

## Lines and cables

Estimated state of the assets	Distribution & LV O/H lines	Distribution & LV U/G cables	Subtransmission lines and cables	Poles
Quantity	5,137km	3,680km	496km	66,038
RAB Value	\$140.3m	\$151.9m	\$45.6m	*
Average grade	3.39	3.55	3.57	4.85
Grade 1 / 2	1.4% / 24.6%	0.2% / 22.8%	0.0% / 5.3%	0.0% / 0.1%
Unknown grade	0.0%	0.0%	0.0%	0.1%
Average age	39 years	30 years	40 years	31 years
Over generic age	435km (8.5%)	27km (0.7%)	38km (7.6%)	10,868 (16.5%)
Unknown age	0.0%	0.0%	0.0%	0.0%
5yr replacement req (est)	13.8%	11.6%	2.6%	0.0%
5yr planned replacement	4.5%	0.7%	0.9%	3.3%
Forecast repex (ave)	\$18.4m +87%	\$3.0m -30%	\$0.2m	*
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	10,017	12,647	61	668
RAB Value	\$99.1m	\$62.2m	<----- \$89.2m ----->	
Average grade	4.74	3.64	4.17	3.08
Grade 1 / 2	0.0% / 0.7%	5.1% / 11.4%	0.0% / 10.8%	0.0% / 2.5%
Unknown grade	0.0%	0.0%	0.0%	0.0%
Average age	26 years	21 years	33 years	20 years
Over generic age	1,649 (16.5%)	2,423 (19.2%)	28 (45.9%)	149 (22.2%)
Unknown age	0.0%	1.4%	0.0%	0.0%
5yr replacement req (est)	0.4%	10.8%	5.4%	1.2%
5yr planned replacement	1.7%	6.4%	10.0%	6.4%
Forecast repex (ave)	\$0.4m -74%	\$1.7m -53%	\$3.4m +30%	
Repex series				

