AURORA ENERGY CPP STAKEHOLDER BRIEFING



X

What we want to brief you on the following

- 1. We launched our consultation yesterday on our preliminary estimate of the investment we need to make over the next four years (CPP consultation)
 - Our proposed plan:
 - a) builds on the work done over the past two and half years
 - b) signals the need for a step change uplift in annual line charges (+\$20 / month)
 - c) takes effect from 1 April 2021 and is presented as a preliminary view
 - d) will be subject to regulatory / independent scrutiny over the next 18 months (CPP)
- 2. Understanding the context for our plan and the process we have to follow to finalise the plan is important our consultation will attract media coverage (local/ / national)
 This short briefing covers:
 - a) the context for our Customised Price Path application and some key facts
 - b) the drivers / needs case for investment over the next four years and priorities
 - c) the indicative impact of the plan on electricity bills / lines charges from 1 April 2021
 - d) the CPP process over the next 18 months before our plan / prices are finalised

X

MEUG Members

- X Business NZ
- X Cold Storage Nelson
- × Fonterra
- × Lion
- X New Zealand Steel
- Norske Skog Tasman
- Oceana Gold
- O-I New Zealand
- Oji Fibre Solutions

- × Pacific Aluminium
- × Pan Pac Forest Products
- × Progressive Enterprises
- X Ravensdown Fertiliser
- × Refining NZ
- Whakatane Mill
- Winstone Pulp International
- Wood Processors & Manufacturers Association

- Business NZ various (Niwa, Spark, Fulton Hogan, Westpac, Bunnings, etc)
- 🔀 Fonterra Mosgiel store / railhead
- Lion Speights & Emerson's breweries / taprooms
- Progressive Enterprises Countdown, FreshChoice & SuperValue supermarkets
- Ravensdown Fertiliser Ravensbourne plant



Anticipated Areas of Interest

Aurora Energy customers who are MEUG members:

- Scale and focus of investment
- Price impact resulting from investment

MEUG Members:

- Consistency with the regulatory CPP process
- Customer consultation
- Assessment & scrutiny (and precedent for other CPPs)
- Rate of return

Who is Aurora Energy?

YOUR ELECTRICITY SUPPLY



GENERATION

Power stations generate electricity from water, wind, geothermal, gas and

TRANSMISSION

Extra high voltage electricity is moved across Transpower's national grid in bulk.

DISTRIBUTION

Aurora Energy substations take electricity from the national grid and lower the high voltage electricity for local use.

DISTRIBUTION

Aurora Energy distributes the electricity to your place via power lines and underground

RETAILERS

Retailers sell electricity to customers and deal directly with the customer.

CUSTOMERS

Your place.





OUR NETWORK



We serve more than





distribution transformers



km of network length, overhead lines and underground cables





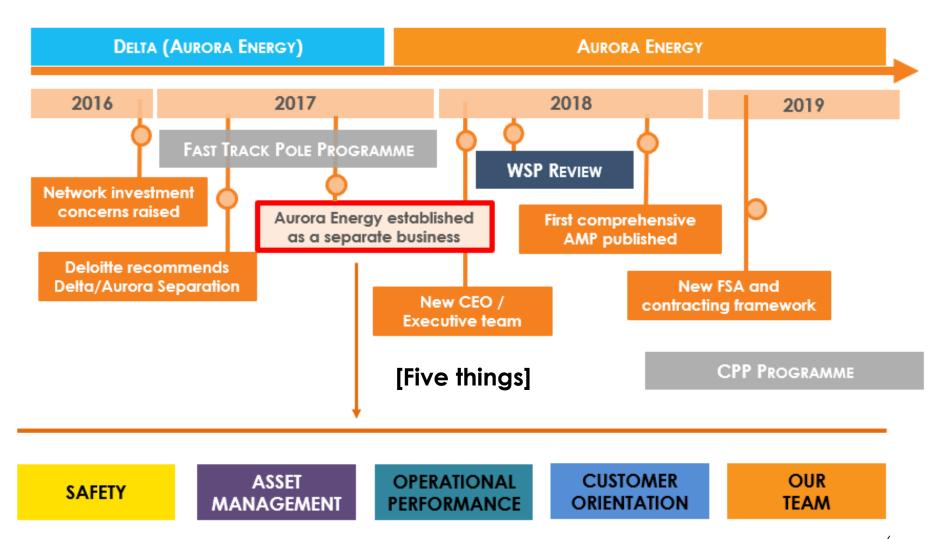
km of underground cables



zone substations



Context 1: - A brief history





We've been focusing on our foundations over the past two years:

- New Board and new Management Team
- Commissioned an Independent Network Review
- Doubled annual investment on the network across a number of priority areas
- × Introduced a critical risk prioritisation framework
- Replaced or reinforced more than 15% of poles on the network (8,179+ poles since 2017)
- X Lifting pole inspection level to nearly 1000 pcm
- Invested in new zone substations
- Appointed two new field contractors
- Implemented new distribution management system
- Commissioned 2nd control room in Cromwell
- Updated and published a 10 year investment plan
- Established customer voice panels to better understand needs of customers

SAFETY

ASSET MANAGEMENT

OPERATIONAL PERFORMANCE

CUSTOMER ORIENTATION

OUR TEAM

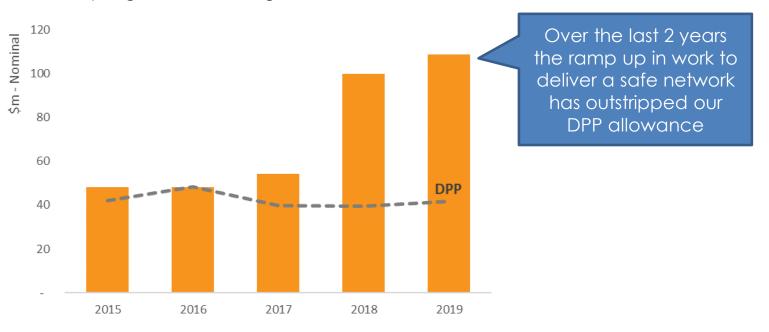
X

The step up in network investment requires us to apply to the Commerce Commission for a Customised Price Path

DPP (Default Price Path): Simpler regulation designed to set prices for distributors in a 'business as usual' environment with modest changes in costs and reliability

CPP (Customised Price Path): Provides distributors an opportunity to seek a customised price and quality path where the circumstances are outside business as usual

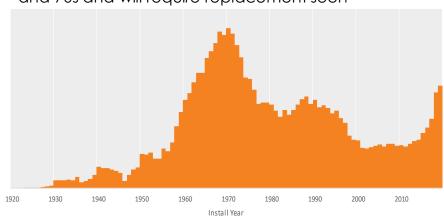
CPP timing: Ideally we would have applied for a CPP in 2015/2016 to support renewal work that needed to be undertaken immediately and position Aurora to deliver a sustained work programme through to 2024

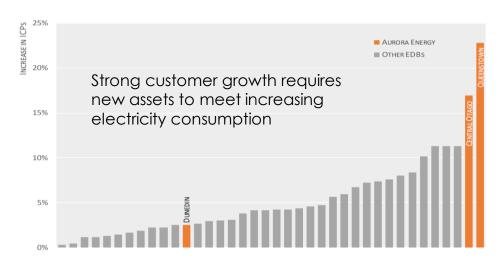


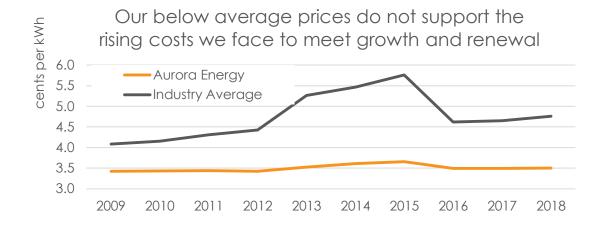


Our Needs Case for a CPP

Aging assets – for example, a large proportion of our conductor and pole fleets were installed in the 1960s and 70s and will require replacement soon







What do we consider when we plan to meet future needs of our communities?





Safety:

Electricity is dangerous and we need to make sure that our network equipment is safe for the public and people working on or near the network. A safe network means that you can feel confident that our services will be safe for you and your community.



Reliability:

Nobody likes a power cut. Improving the reliability of the network means you can expect fewer unexpected power cuts and the power gets back on quicker when there is a fault. When we do need to turn the power off to do planned work, you will be well informed in advance about the reason and length of these events.



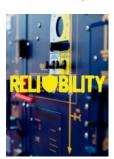
Growth:

Our region is growing fast, especially in Central Otago and Queenstown Lakes. More homes, farms and businesses connecting to the network requires more capacity to get the power where it is needed, when it is needed. By planning and building for growth, we can cater for higher electricity demand and continue to service growing areas as they expand.



Resilience:

Our Otago climate is changing with more frequent adverse weather events, and more extreme weather highs and lows. Like anywhere in New Zealand, there is potential for a major earthquake in our region. A more resilient network is better able to withstand a severe storm or major natural disaster.







Future technology:

The way people access and use our network is changing thanks to the advent of technologies such as electric vehicles, solar panels and battery storage. A network that adapts to a changing future allows you, the customer, to have greater choice to make and store your own energy and power your life with sustainable choices. You will also have the confidence to know that the Aurora Energy network is future proofed and can accommodate changing demands.



Customer service:

As an electricity customer your main point of contact is with your chosen energy retailer. Most of the time, our services work quietly in the background. On occasion you will need to deal with us directly for information about power cuts, to request a new connection, get safety advice, arrange for tree trimming away from power lines or when we need to access to your property for maintenance. When you do, it's important you get the information and service you expect and need.



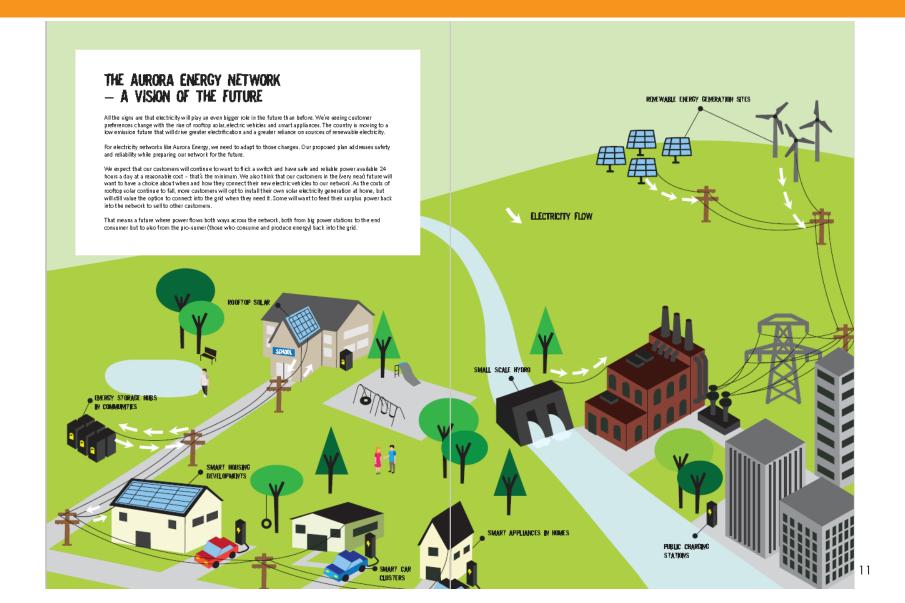
Pricing:

You pay the costs of electricity supply through line charges as part of your power bill. Changes in network investment ultimately flow through to you as an electricity consumer. We want to hear your feedback on investment options proposed in this document and what you think is the right balance between the services you want and the price you pay.



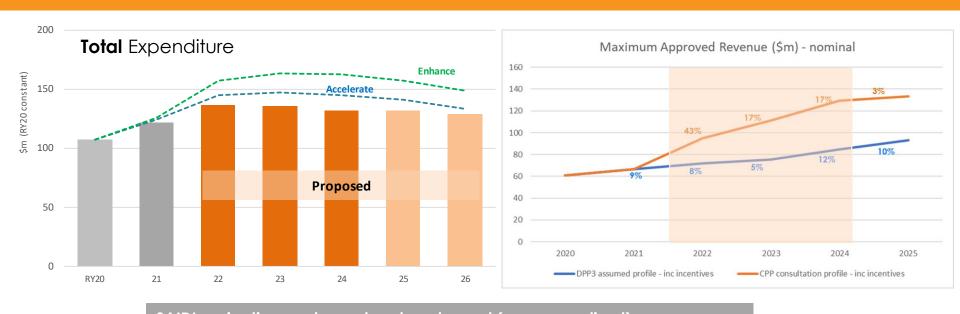
Our proposal delivers the network foundations to meet the future needs of our communities

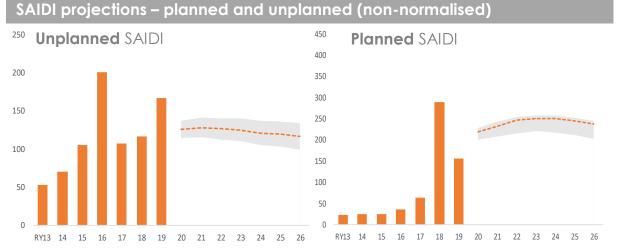




Our proposal on a page - we considered three options but discounted two options based on affordability for communities and Aurora's maturity to deliver more ambitious programmes of work.



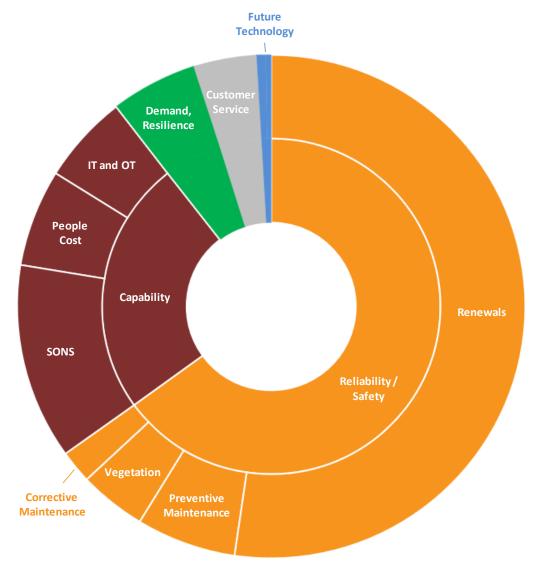




Outages Forecasts

The foundations of a future network requires asset renewal and maintenance, and enhanced business capability to deliver a safe and reliable electricity supply





- A safe and reliable network requires a major renewal programme to address end of life assets
- To prepare for the future and to deliver our renewal programme efficiently we will continue to invest in business support systems and people
- As well as renewing existing infrastructure, we are meeting capacity growth in the fast-growing areas of Central Otago and Queenstown Lakes and preparing for a future shaped by new technology options and changing customer choices.





WHAT WE INVEST IN

Under our proposed plan, we would invest in replacing and upgrading ageing equipment on the network. Major areas of spend would be on poles, cross arms, overhead lines and underground cables, protection systems and zone substation transformers, shown in the table below

	Total	number 3-year CPP	% end of expected life		
number in fleet			Now	After 3 years under our proposed plan	If we spent nothing at all
Poles	54,000	\$46m	6%	3%	16%
Cross arms	94,000	\$19m	14%	11%	31%
Overhead lines	4,400km	\$37m	6%	4%	13%
Protection systems*	600	\$13m	49%	20%	59%
Zone substation transformers**	65	\$13m	2%	5%***	18%

[&]quot;Protection systems disconnect equipment when there is a fault to protect people and equipment.

[&]quot;"Zone substation transformers convert high voltage electricity to lower voltages for distribution to the surrounding area.

[&]quot;"The number of zone substation transformers at the end of their expected life would increase. There is lower reliability risk for these assets as they are installed in pairs, so if one has a fault the other still operates.



Additional service options and what they deliver and cost

Service Initiatives



CUSTOMER SERVICE

Make improvements:

- 24/7 contact center
- Real time outage info.
- · Reduce new connection time

FORECAST SPEND FOR OPTION B: IMPROVED CUSTOMER SERVICE (CONSTANT 2020 \$MILLION)

	2022	2023	2024
Capital spend	\$0.1m	\$0.1m	\$0.1m
Operating spend	\$0.7m	\$0.7m	\$0.7m
Total	\$0.8m	\$0.8m	\$0.8m

WORST SERVED CUSTOMERS

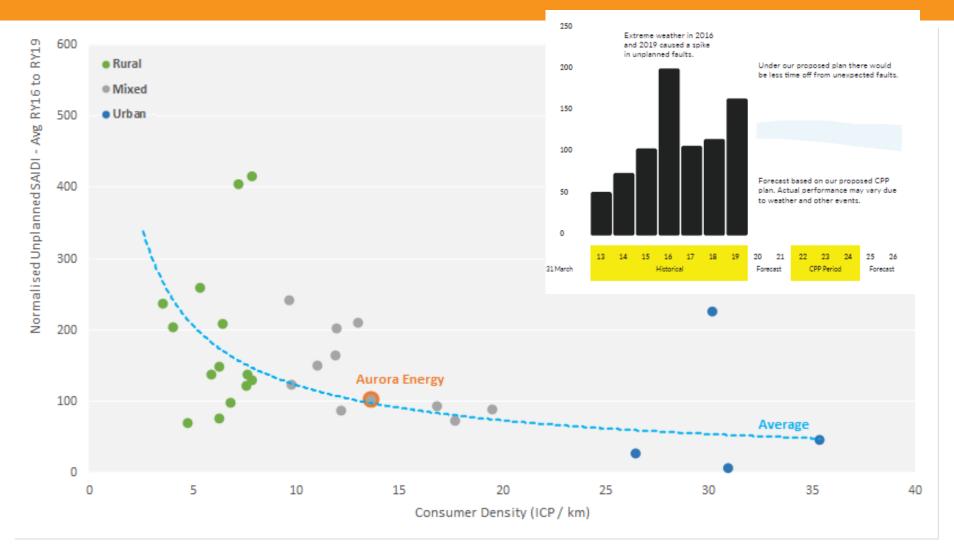
Improve reliability for worst served customers in each region.

FORECAST SPEND FOR OPTION A: IMPROVED RELIABILITY FOR WORST-SERVED CUSTOMERS (CONSTANT 2020 SMILLION)

	2022	2023	2024
Capital spend	\$3.0m	\$3.0m	\$3.0m
Operating spend	\$0.5m	\$0.5m	\$0.5m
Total	\$3.5m	\$3.5m	\$3.5m

Our unplanned reliability performance is good but declining and our proposal to address safety will stop the decline in unplanned outage performance



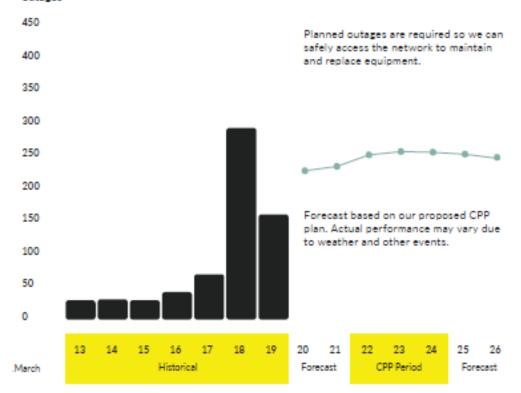




Reliability – Planned

PLANNED MINUTES OFF

Average number of minutes that customers are without electricity per customer, per year (SAIDI) years ending 31 March for planned outages



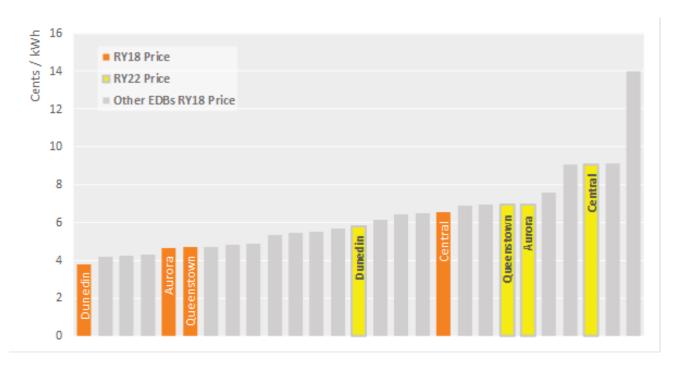


Most renewal work requires a planned power outage

To meet our communities' future needs our prices will no longer be among the lowest in the country



- To date, most of Aurora Energy's customers have paid some of the lowest average line charges in the country
- To deliver a safe and reliable service requires us to invest more in the network; ultimately those costs will pass onto customers through increased line charges on their power bill





Prices in the regions are different because...

	Central Otago/ Wanaka	Queenstown	Dunedin
To supply 100 customers	12km	8km	6km
Network length	2,600km	1,100km	3,100km





Indicative line charges our customers would pay from April 2021

(note these are estimates only and final prices depend on the outcome of the CPP process and Commerce Commission approval, how customers use energy and how retailers pass on our lines charges)

LINE CHARGES

Indicative average monthly distribution line charge in constant 2020 dollars.

Under our proposed CPP plan	2021	2022	2023	2024
Residential	\$33	\$46	\$52	\$59

Total Bill Impact 16%

– Dunedin

LINE CHARGES

Indicative average monthly distribution line charge in constant 2020 dollars.

Under our proposed CPP plan	2021	2022	2023	2024
Residential	\$45	\$62	\$70	\$79

Total Bill Impact 16%

– Queenstown

LINE CHARGES

Indicative average monthly distribution line charge in constant 2020 dollars.

Under our proposed CPP plan	2021	2022	2023	2024
Residential	\$59	\$81	\$90	\$101

Total Bill Impact 23%
– Central Otago &
Wanaka

We are mindful of energy hardship and are considering our role in supporting the community to better manage the impact of price rises



- There are a number of ways Aurora Energy could respond to rising prices and energy hardship
- Increase national involvement in energy hardship through participation in the cross-sector group
- Partner to provide information and advice to reduce energy consumption and ability for consumers to make informed choices about their energy retailer (e.g. energy mate involvement)

We would like to further explore options for addressing energy hardship which could be specifically designed to meet the needs of your communities.

This is an emerging topic for the energy sector and the role of EDBs in this area is not clear.

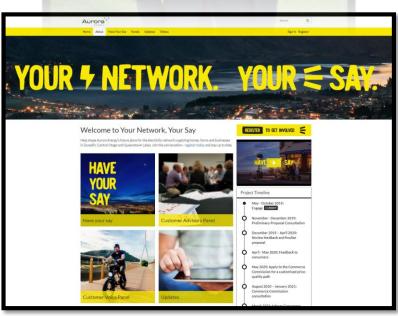


Consultation – What we've heard so far & what's next?

























Independent CAP report







