

The importance of good asset management?



High level

What are we up to?

What is this showing us?

What is our plan going forward?

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Trustee Responsibilities SCI setting Objectives Energy • Performance targets and measures Companies Act 1992 • Estimate of profits and capital reserves distributed to shareholders. Maintenance and support of beneficiary entitlement. **Trustees Act** Preservation and improvement of the 1956 business enterprise in the interest of beneficiaries. 3

Company Strategy Information

Annual SCI KPI's reported on Quality

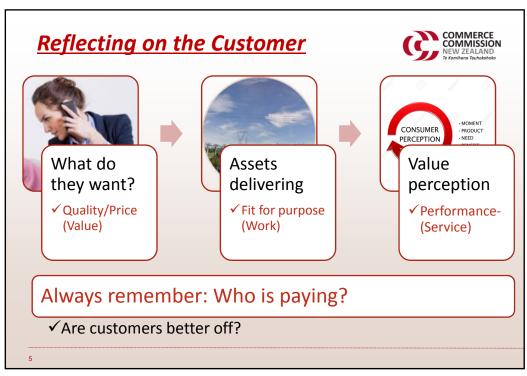
Organisational

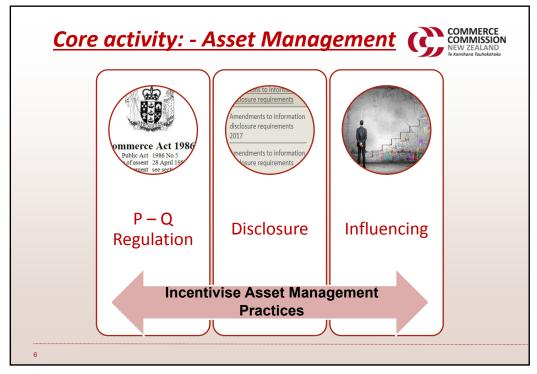
Financial

EBITDA (Cash)

Profit
Debt

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Reflecting on the regulatory approaches available to help deliver customer value



Default Price Path: compliance ceiling

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Re-openers

Independent state of the network review with Commission involvement

Areas of Focus for Asset <u>Management</u>



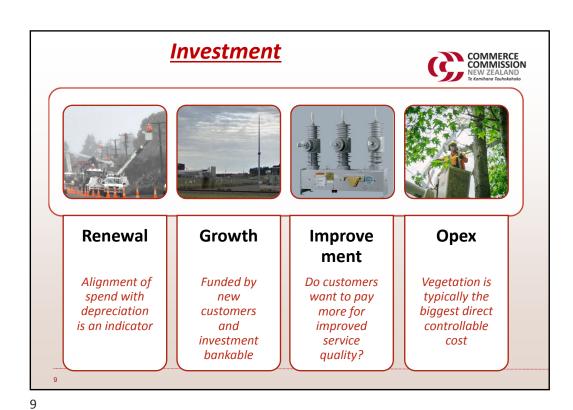
Investment 'sufficiency'

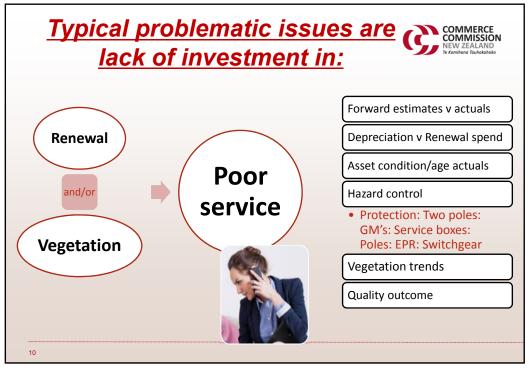
Health and criticality of assets

Network resilience

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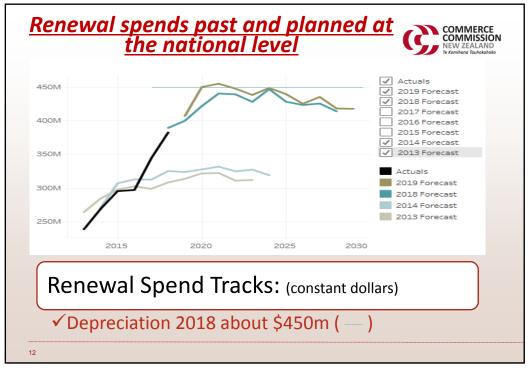
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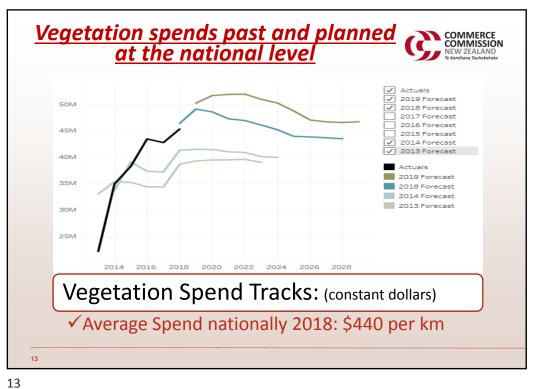




Key learnings from visits Being there is ✓ People interaction and listening to their everything achievements/problems tells you so much more. ✓ SCI's, Annual reports, AMP's and pricing The documents methodology often do not reflect the actual asset do not tell the condition and the delivery of customer value full story proposition. More innovation ✓ A number of innovations are taking place. than perceived Some ✓ Other investments and some relatively high companies are balance sheet loadings. taking on risk

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Tools for viewing the information

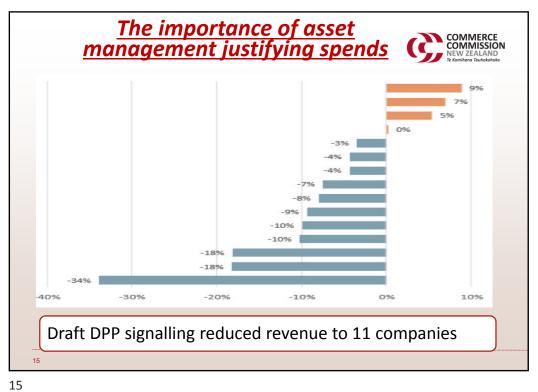


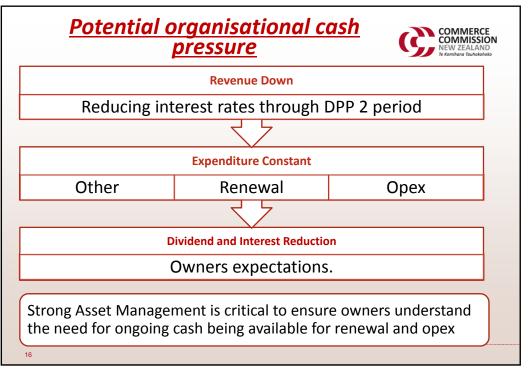
The Commission is about to release a product which will allow users to access data.

- √The tool has been sent to each company for trial.
- ✓ Performance Accessibility Tool (Tableau)
- √The product will allow companies' disclosed information to be viewed by interested parties.

 $https://comcom.govt.nz/__data/assets/file/0032/59549/Performance-Accessibility-Tool-PAT-November-2017.twbx$

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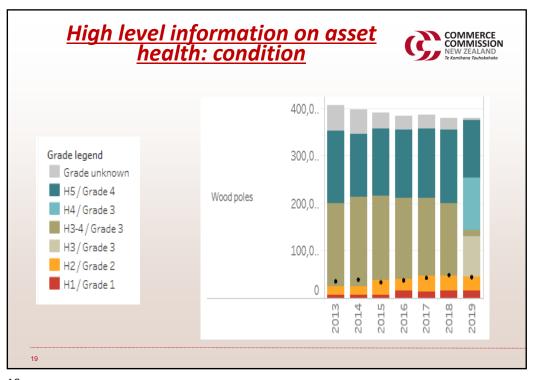
Practical approaches that may be useful useful COMMERCE COMMISSION NEW ZEALAND To kominara Trunchehoka



- Asset management systems with connectivity modelling capability:- Outage calculators:- Regulatory cost and valuation.
- Load flow, protection and related models.
- ✓ Shorter patrol periods and longer inspection cycles (Asset group) by asset group)
- ✓ Generators, regulators, capacitors, smaller zone subs, modular switchgear.
- Restoring as quickly as possible
- Monetised priority modelling (criticality)
- Effective load control systems

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<u>High level information on asset</u> <u>health:- age</u> COMMERCE COMMISSION NEW ZEALAND Choose an asset category Power poles Centralines Counties Power Choose an asset class Electricity Invercargill Horizon Energy Installation decade 2010s Nelson Electricity 20005 Northpower Orion NZ 19905 1980s OtagoNet The Power Company 1950s 1940s Waipa Networks WEL Networks Pre-1940 Unknown



Criticality Guide



The EEA guide is a great development, a few thoughts

- ✓ Sound approach to monetise asset risk across asset fleet.
- ✓ How could it be used to understand SAIDI/SAIFI outcomes?
- ✓ Asset fault rate as an alternative to probability and define bespoke outage duration for each asset.
- ✓ Hazard and safety risk being introduced and monetisation supported.
- ✓ Any thoughts about introducing the ALARP principle also? (see HS+E website in the UK)

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Recent desktop risk review



Application of risk policies and frameworks

Contingency and HILP planning

Investment in Resilience

- ✓ Study showed all EDB's had some of the areas covered
- ✓ None addressed all of the issues in detail

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We have evidence that confirms EDB's are taking action



Positive observations include:

- ✓ As part of the need to renew substations they have studied and procured sites away from fault lines.
- ✓ Strengthened substation buildings.
- ✓ Renewed poles to ensure they have adequate strength for supporting loads such as distribution transformers.
- ✓ Evaluated flood risk and relocated plant away from risk areas.
- ✓ Updated switch gear, battery banks and protection systems to be more resilient.
- ✓ New control rooms to 100% plus NBS IL4.

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Asset Management Practices review (COMMESCION NEW ZEALAND) NEW ZEALAND

Currently taking place

- √ Key areas are:
 - **≻**Investment
 - Asset information
 - **≻**Quality
- ✓ Focus is on trends in ID information and how are these being addressed in the AMPs.
- ✓ A series of questions for companies are being prepared to bring out performance trends, asset information and corrective actions.
- ✓ Intention is to publish questions and answers.

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The next actions will likely include



Ongoing reviewing of companies performance

Encouraging companies who have performance issues to reflect on regulatory options

Highlighting disclosed data trends

Updating Information requirements

Ongoing interaction with companies with the objective of ensuring customers expectations are met.

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Your thoughts?

- √ High level
- √What are we up to?
- √ What is this showing us?
- ✓ Our plan going forward?

Lets make NZer's better off

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