Maximising benefits from local electricity generation

Proposals to set more efficient export limits

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Opening karakia

Mauri oho

Mauri tū

Mauri ora

Kia a tatou

Haumui e, hui e

Tāiki e!

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Presentation outline

Overview of proposals

Expected benefits

Likely costs

Questions?

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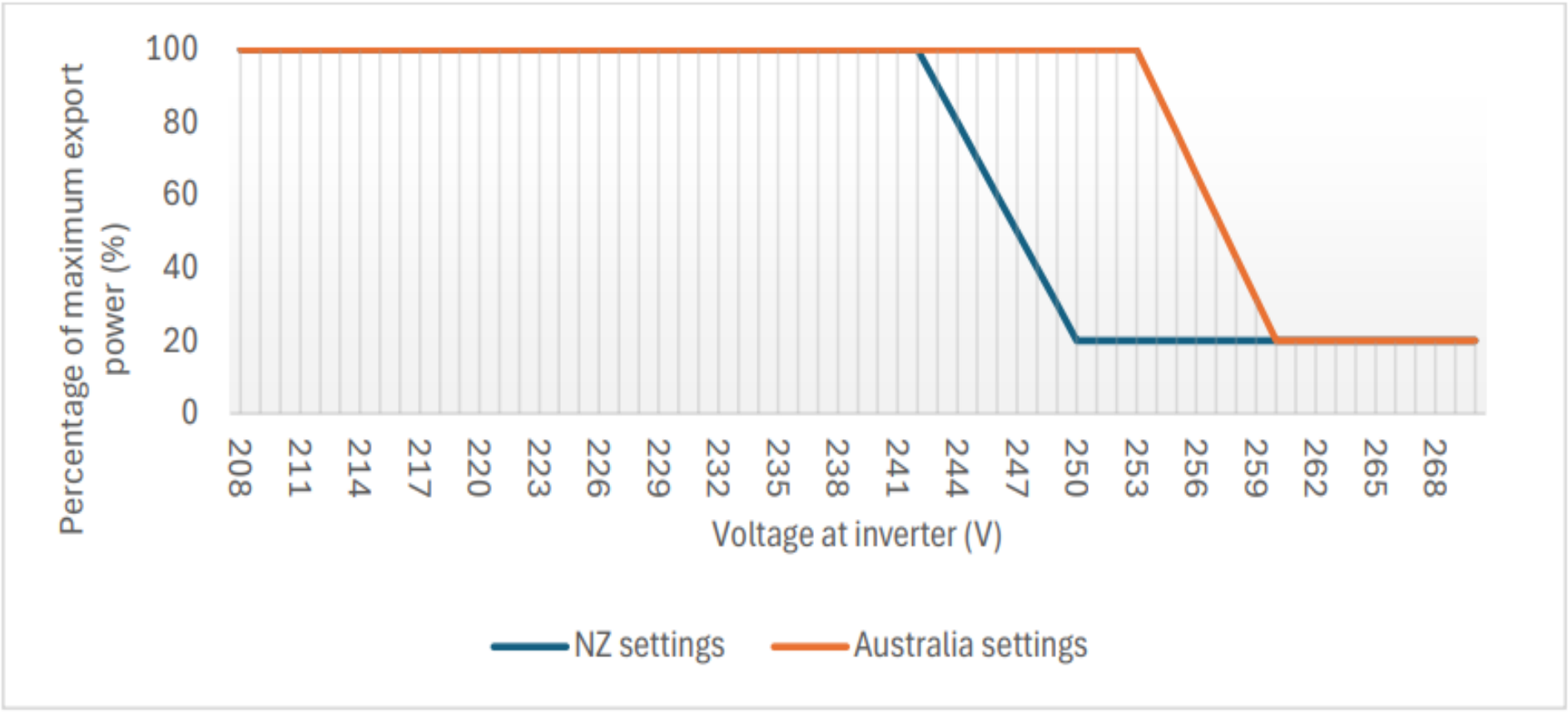
Proposals

1. A default 10kW export limit and use the latest installation standard for straight-forward DG applications
2. Default Australian inverter voltage response settings
3. An industry-developed methodology to set bespoke limits for larger DG
4. All low voltage DG applications must use the latest inverter performance standard

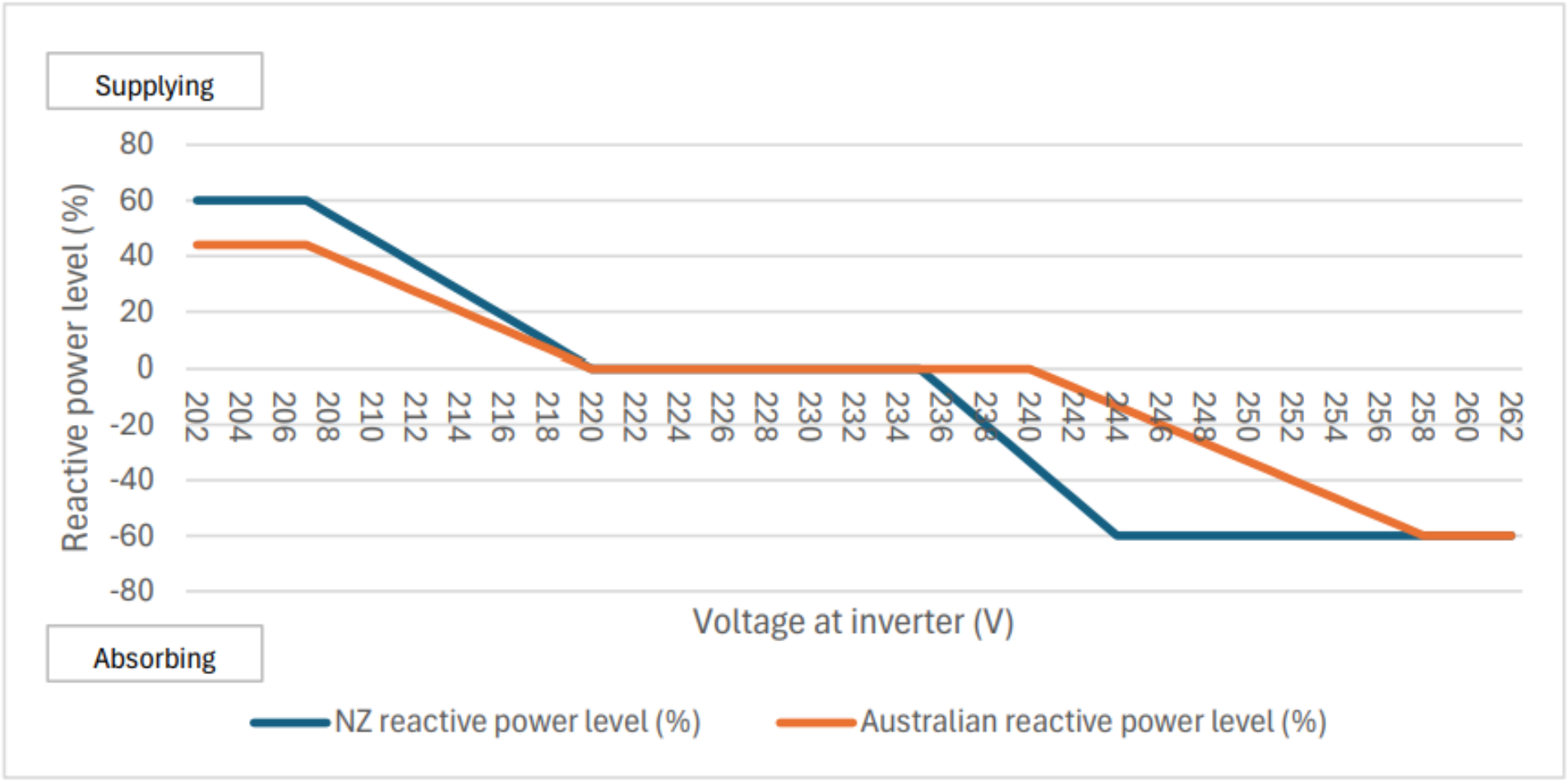
Australian volt-watt settings for inverters

Figure 10: A comparison on Australian and New Zealand volt-watt settings in the inverter performance standard (AS/NZS 4777.2:2020)[74]



Australian volt-var settings for inverters

Figure 12: Volt-var settings for Australia and New Zealand in AS/NZS 4777.2:2020[77]



Proposals

1. A default 10kW export limit and use the latest installation standard for straight-forward DG applications
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Expected benefits

- Better returns for DG owners
- More DG investment
- More efficient network management
- Less need for costly network infrastructure
- More resilient electricity supply
- Lower electricity costs for consumers
- Lower emissions
- Industry encouraged to adjust existing installations, where capable

Likely costs

- Low overall compared to benefits
- Mainly fall on distributors:
  - network assessments
  - updating processes, documentation, databases, websites
  - changing operating practices
- Update costs for existing consumers (remote reprogramme or site visit)

Questions?

connection.feedback@ea.govt.nz

Closing karakia

Kia tau kia tātou katoa

Te āio, te aroha me te marutau

Tihei mauri ora

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