



TRANSPOWER

Transpower Customer Webinar

15 October 2025

Opening **Karakia**



Kia tau te rangimarie
O te Rangi e tū iho nei
O Papatūānuku e takoto nei
O te taiao e awhi nei
Ki runga i a tātou
Tihei Mauri ora

Translation

Let the peace
of the sky above us
of the earth laid out here
and of the all-embracing universe
settle upon us
Breathe the breath of life

Topic	Presenter	Time
Welcome, agenda and karakia	Tim Duguid, Head of Customer & Commercial Avi Dastidar, Customer Solutions Advisor	13:30 – 13:35
Major Capital Projects update	Stephen Jones, Grid Investment Group Manager (10 mins)	13:35 – 13:45
Te Kanapu scenarios consultation	Tania Lund, Programme Director - Future Grid (5 mins)	13:45 – 13:50
Connections update	Rupert Holbrook, Customer Connections Project Director (10 mins)	13:50 – 14:00
End to end acceleration initiative	Malcolm Cleland, Head of Innovation and Strategic Change (10 mins)	14:00 – 14:10
Pricing update	Karen Smith, Senior Regulatory Advisor - Grid Pricing (5 mins)	14:10 – 14:15
Q & A	Tim Duguid	14:15 – 14:30
Ngā mihi e karakia	Tim Duguid & Avi Dastidar	14:30



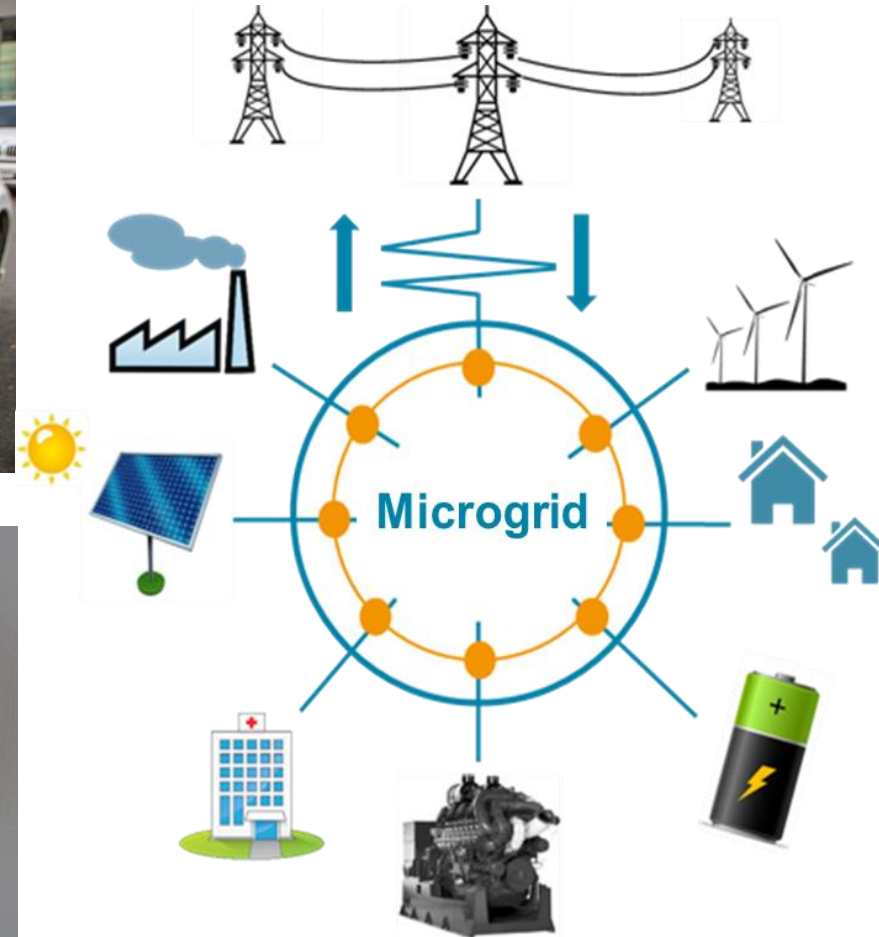
Major Capital Projects update

*Integrating non-transmission solutions
into our Major Capital Projects*

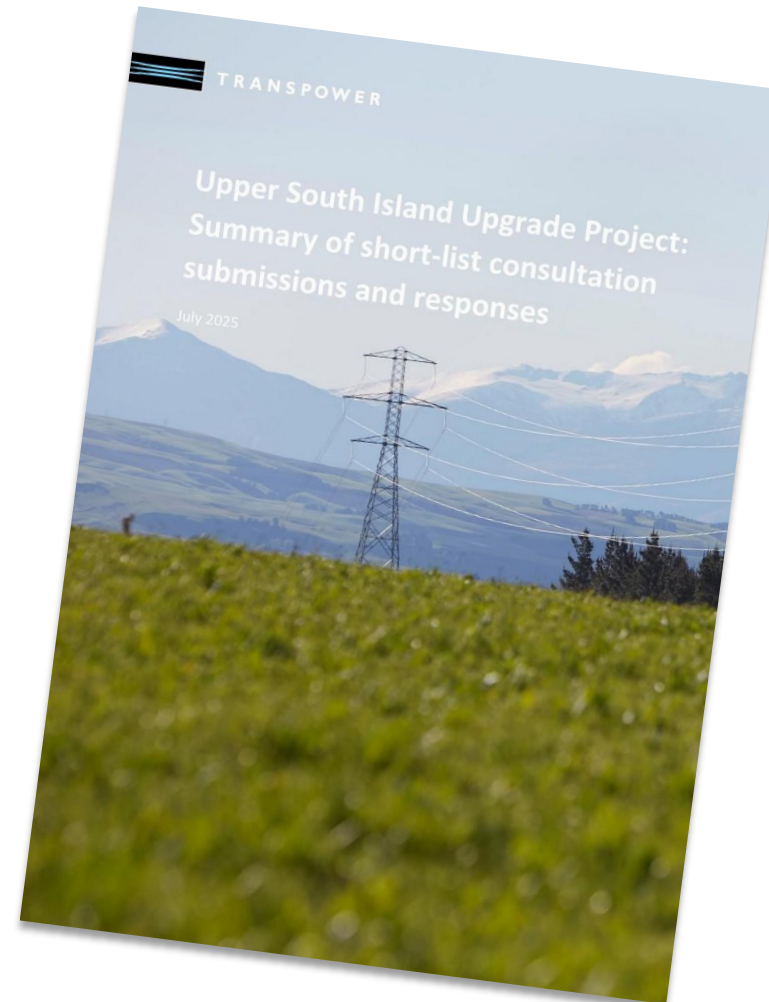
Stephen Jones, Grid Investment Group Manager



Non-transmission solutions – what are they?



Our new approach



What's approved and what's coming?

Opportunities include:

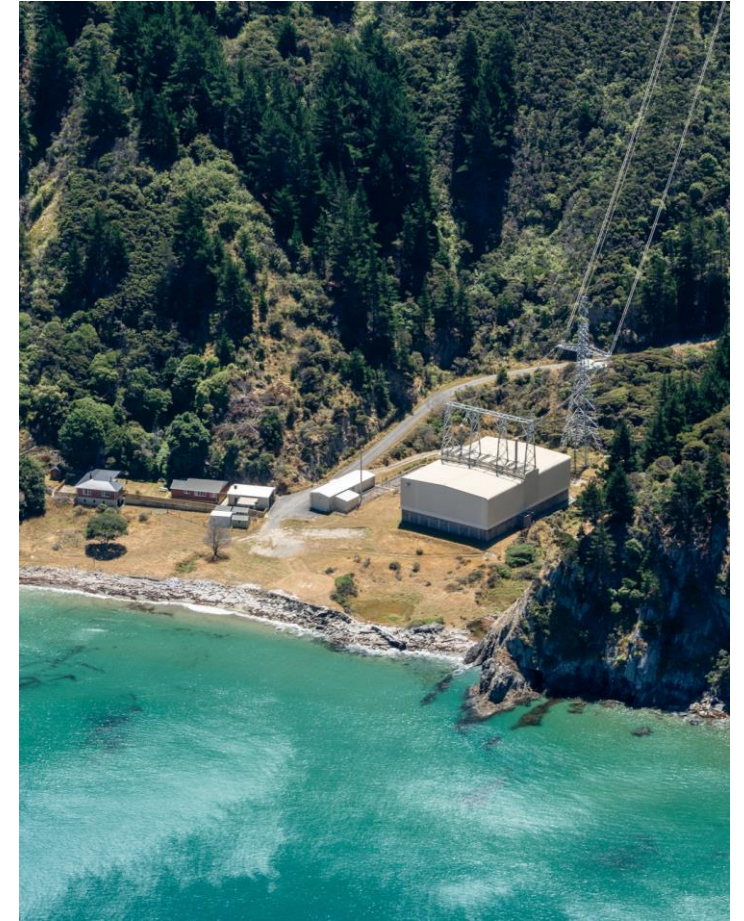
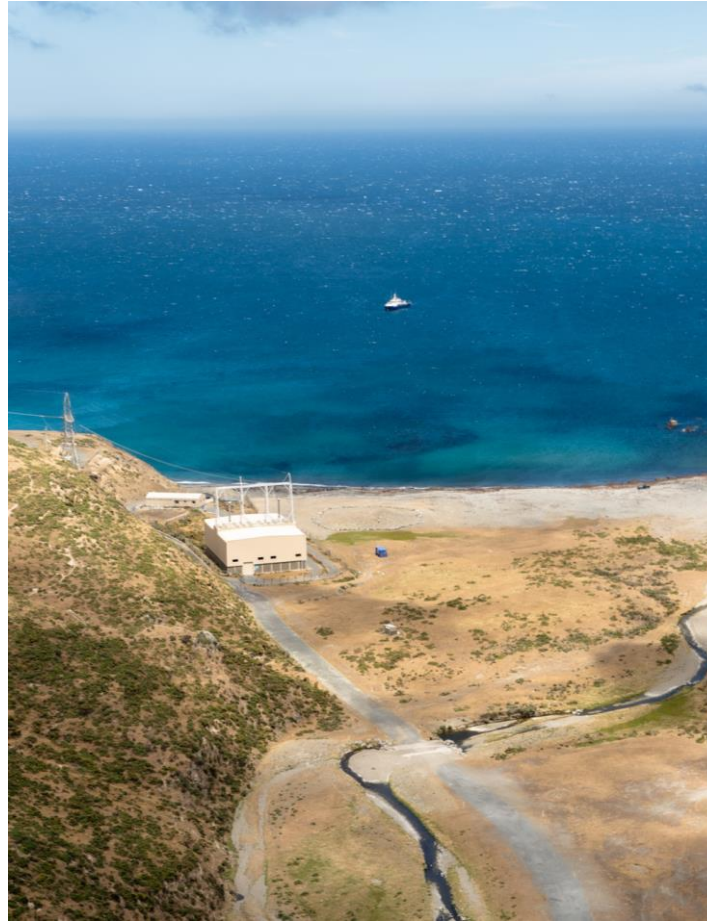
Western Bay of Plenty – up to \$2.5M

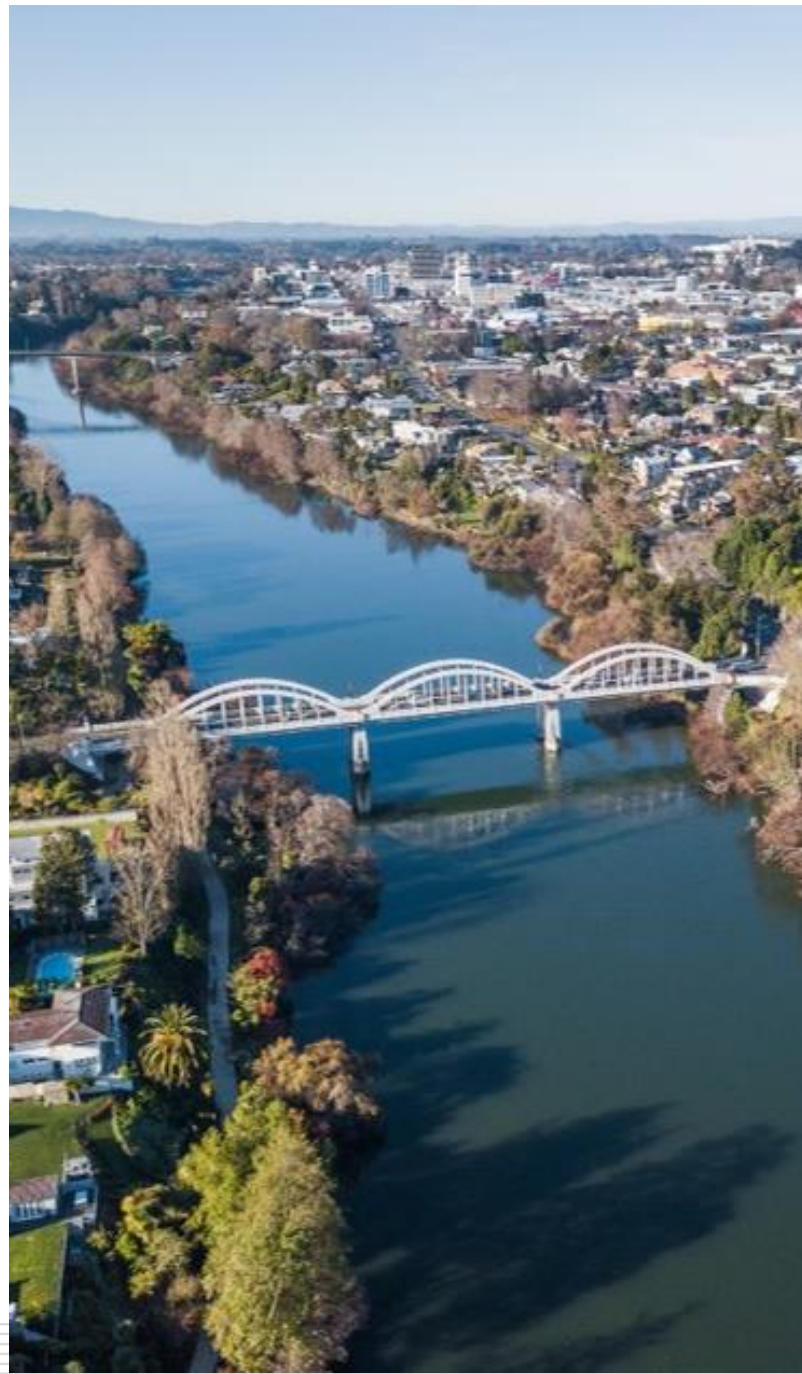
Upper South Island – up to \$7M

Future MCP opportunities to apply non transmission solutions



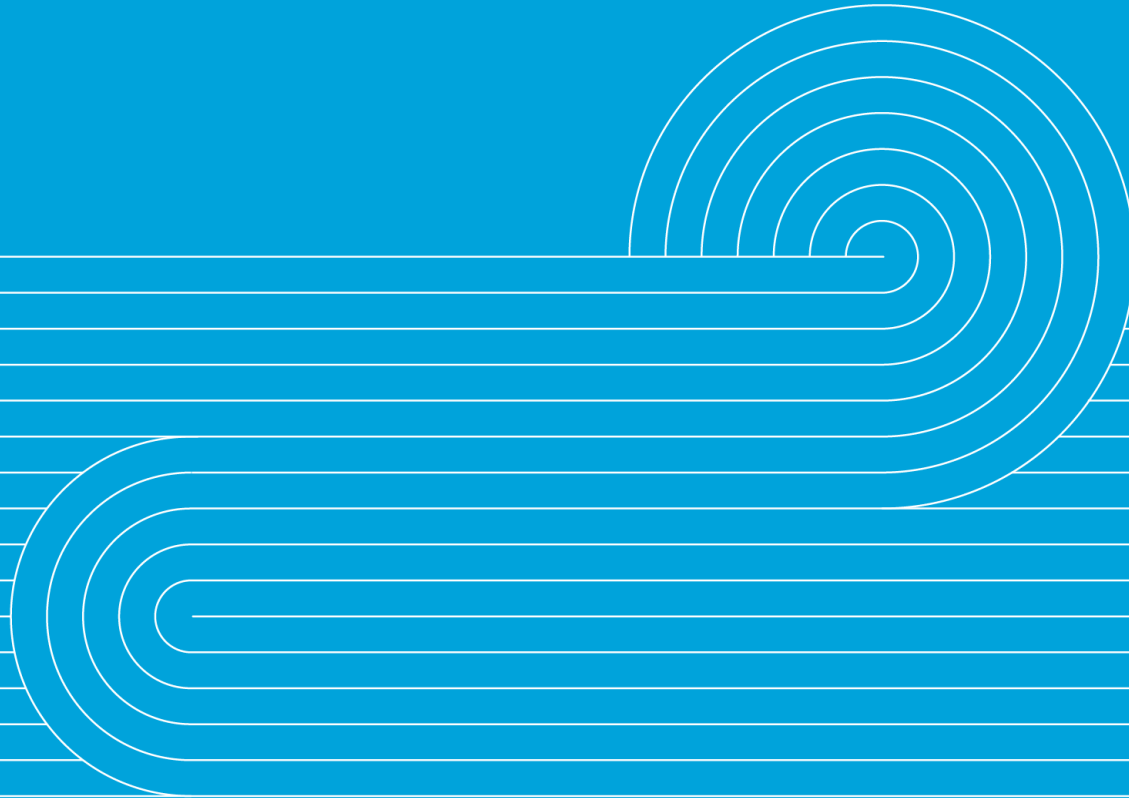
HVDC link upgrade programme: Major Capex Proposal (stage one)





Te Kanapu – Consulting on potential futures

Tania Lund, Programme Director - Future Grid





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Te Kanapu

Future Grid Blueprint

Customer and stakeholder webinar
15 October 2025

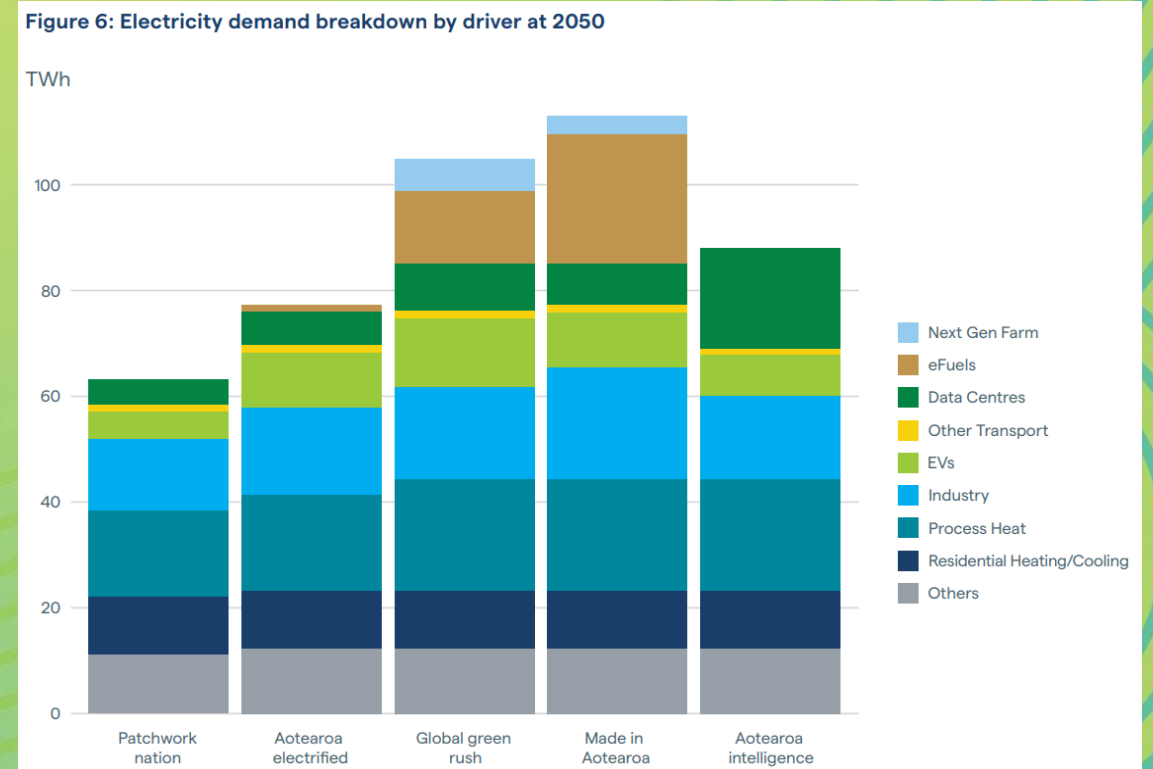
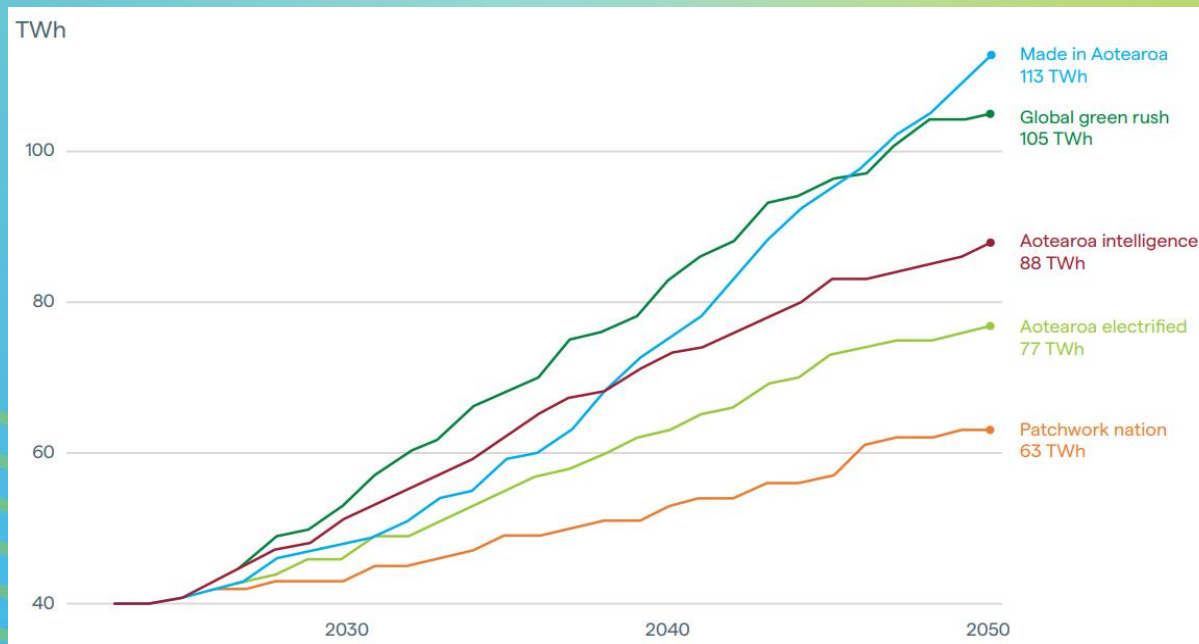


Developing a
future grid
blueprint for
Aotearoa

Consulting on five potential future scenarios

Each scenario describes a potential 2050 in Aotearoa – three target growth, one is based on previous scenario work, one an extension of the status quo.

These reflect the ambitions we've heard from stakeholders in our first consultation and throughout engagement so far.



We want your feedback

Consultation is open now until 5pm Friday 14 November.

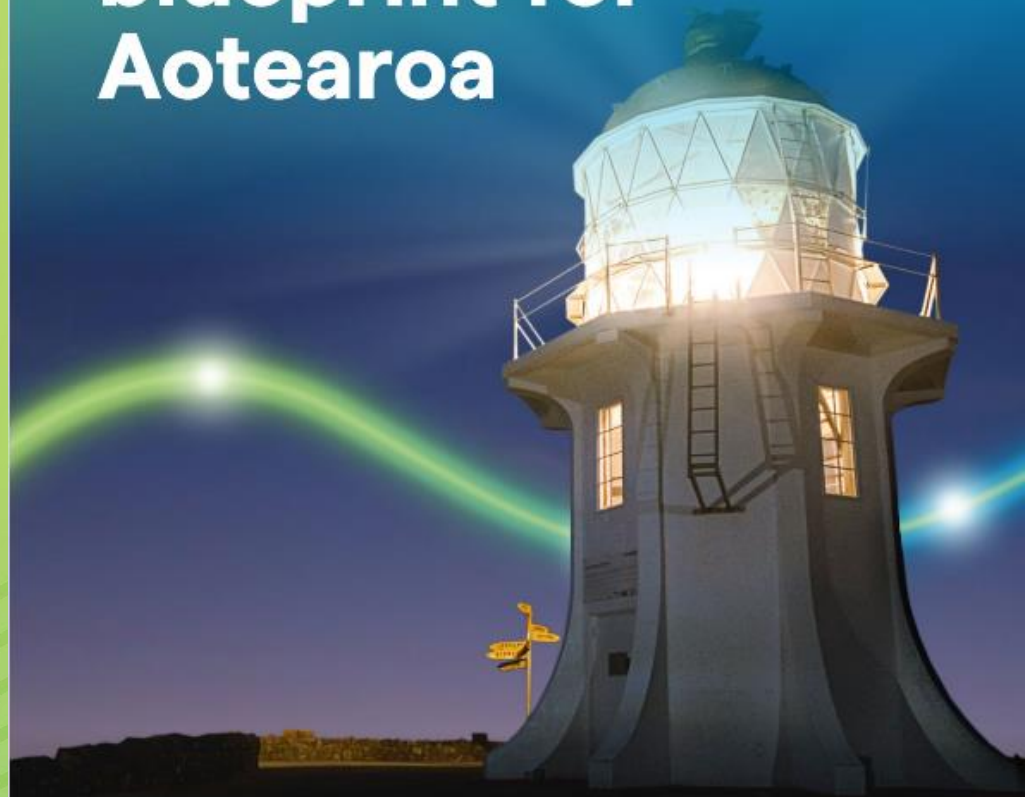
For more information, or to arrange an in-depth conversation, email: feedback@transpower.co.nz



Visit:
transpower.co.nz/our-work/te-kanapu/



A future grid blueprint for Aotearoa



Consultation 2:
Potential Scenarios

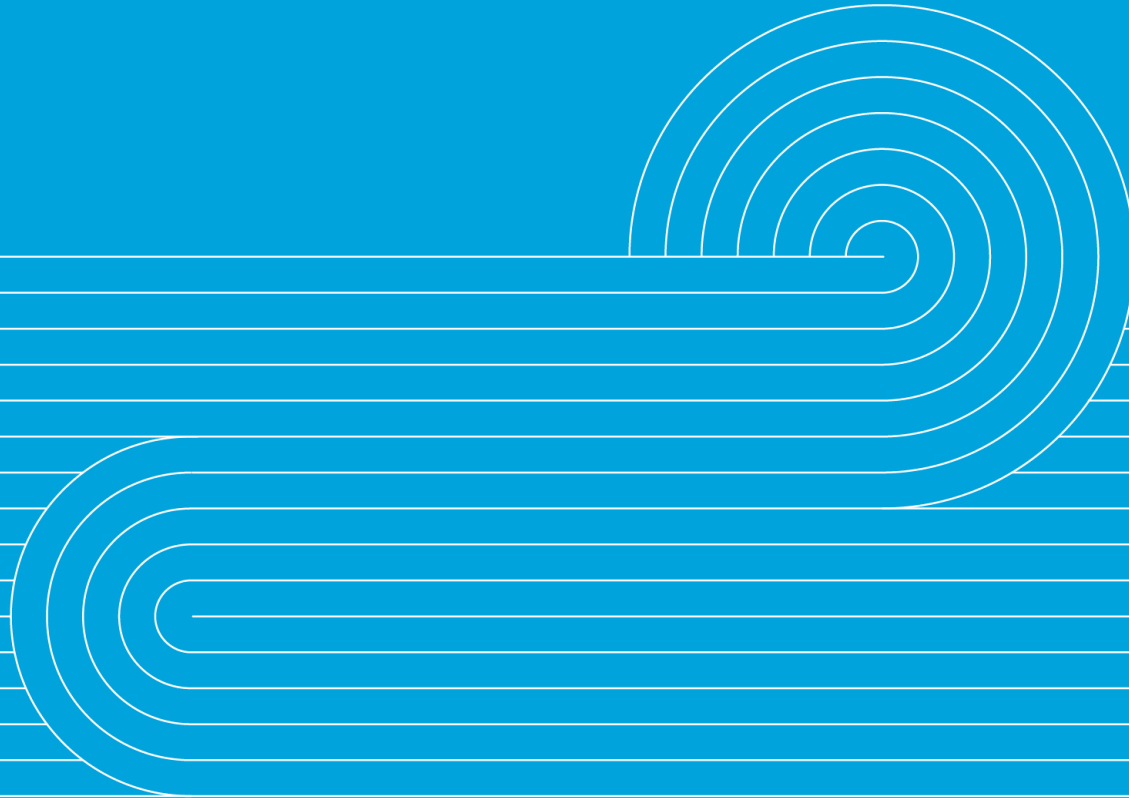
October 2025

Te Kanapu
Future Grid Blueprint



Connections Update

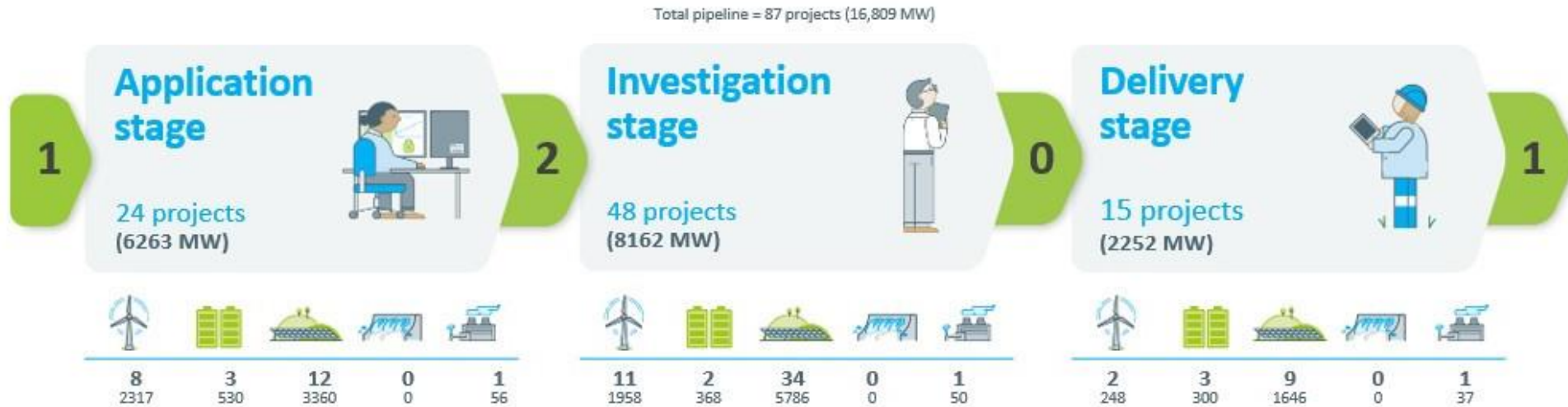
Rupert Holbrook, Customer Connections Project Director



Connections update – generation

Connection Pipeline – October 2025

(Generation and energy storage)



Oct
2024

Application stage

36 projects
(7715 MW)

Investigation stage

37 projects
(5376 MW)

Delivery stage

16 projects
(2213 MW)

Notes

One project in application stage in September cancelled

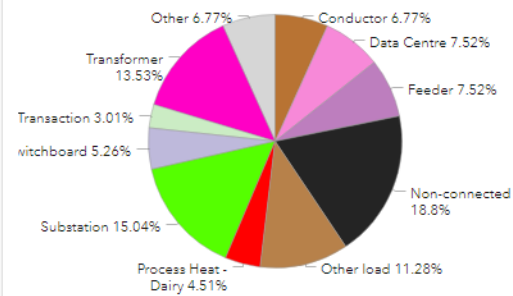
Number of projects includes those currently on hold at the customer's request (10 in investigation, three in delivery).

Where projects include more than one type of resource, they are categorised under their primary output. Thirty projects in the pipeline also include battery energy storage systems.

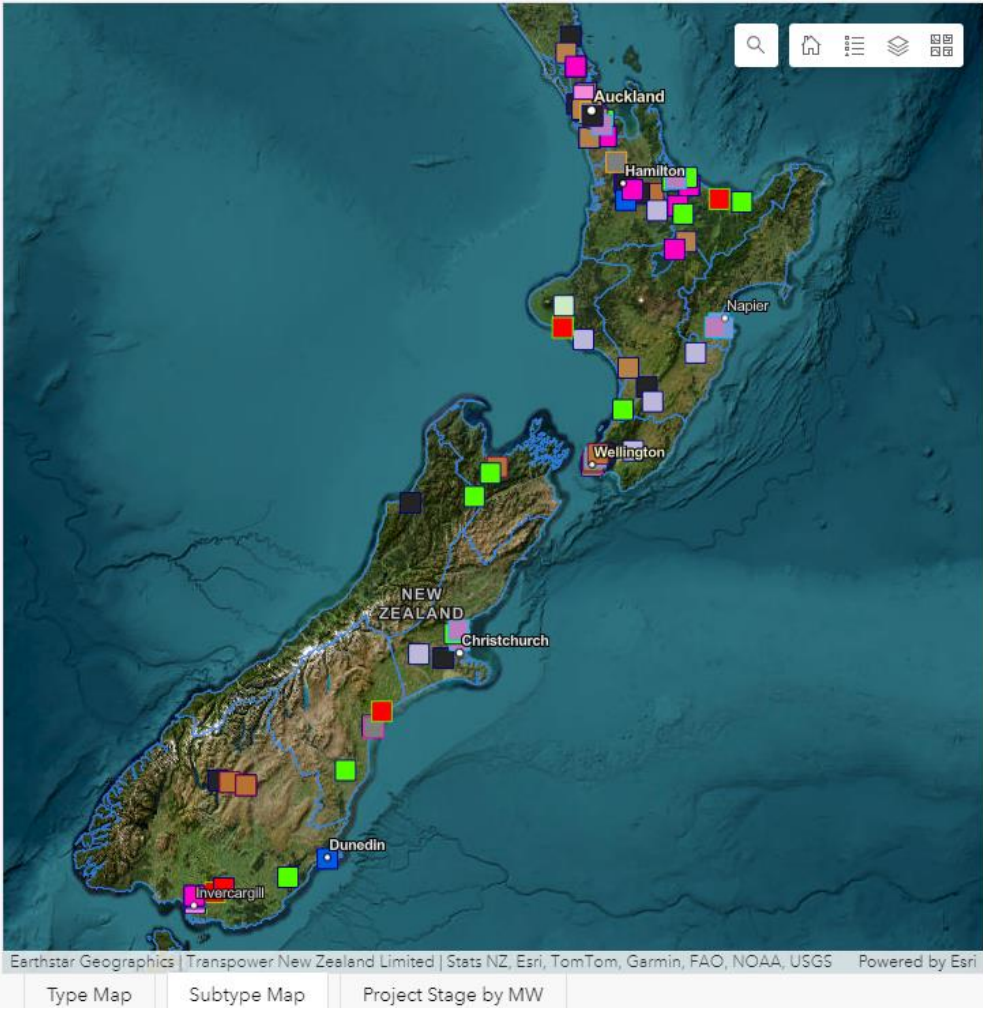
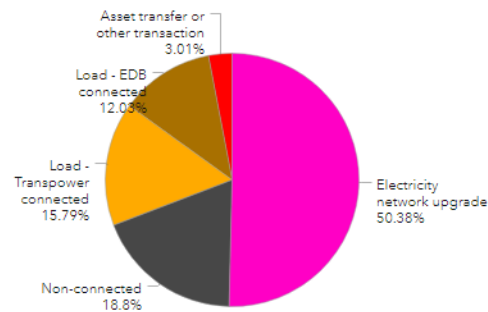
Connections update – non generation

Connection location (substation or	Type	Sub-Type	Transpower stage	Max MW
ISL-KIK	New GXP	Substation	Investigation	120
Mangere	New transformer	Transformer	Investigation	120
HEN-OTA	New GXP	Data Centre	Investigation	200
CHC-TWZ, ROX-ISL-A	New GXP	Process heat	Investigation	120
Cromwell	New transformer	Transformer	Investigation	60
GLN-DEV-A	Relocation	Non-connected	Investigation	0
Wairau Road	New transformer	Transformer	Investigation	120
HEN-MPE	Relocation	Non-connected	Investigation	0
HEN-OTA-A	Relocation	Non-connected	Investigation	0
HEN-OTA-A	Relocation	Non-connected	Investigation	0

Enquiry Subtype

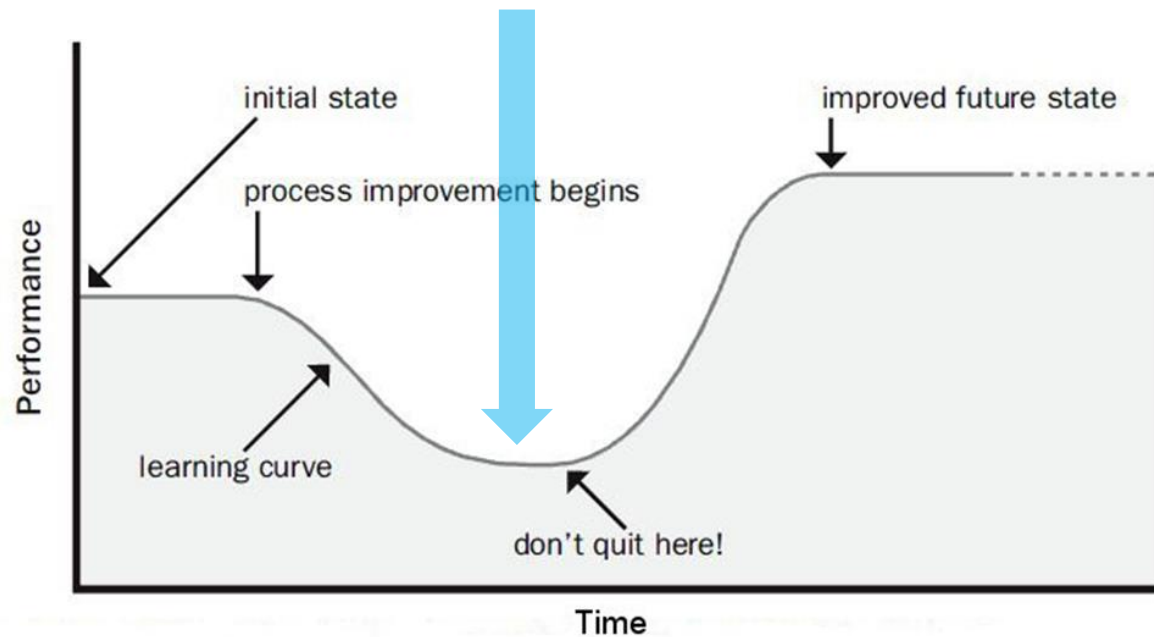


Enquiry Type



We have developed a new step: “Concept Solution Proposal”

- First step prior to preliminary design
- Defines and documents our offer
- Formal acceptance with agreed plan and milestones
- Designed to accelerate subsequent stages
- Temporarily impacting pipeline throughput



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Concept Solution Proposal for
<<insert name of customer>>

<<insert name of project>>

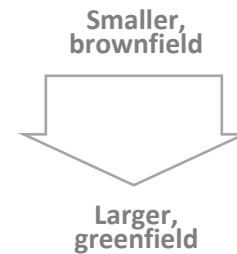
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Evolving our approach through three connection waves

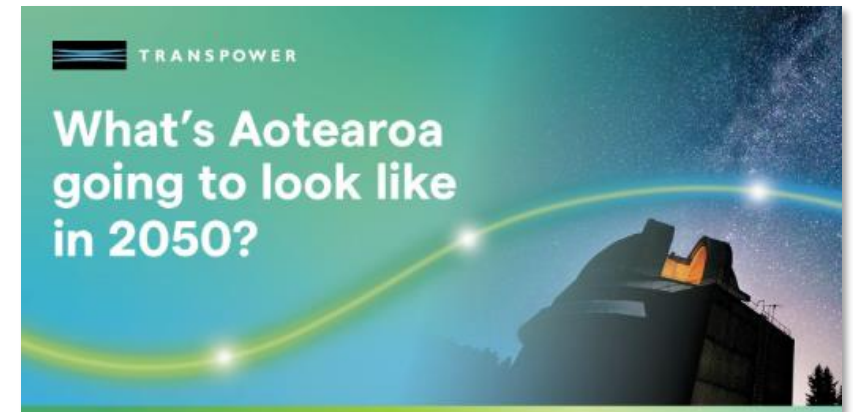
We operate a “connect-and manage” regime (first and second waves)

- Before 2020: As and when needed
- 2020: First in first served
- 2022: First ready first served “CMF”
- 2024: + milestones
- 2026: + Concept Solution Proposal “E2E Initiative”
- ...continuing evolution

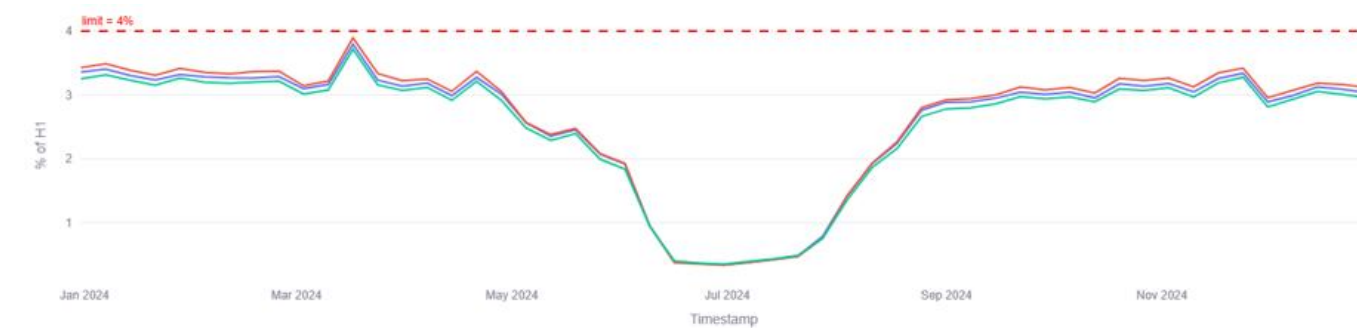
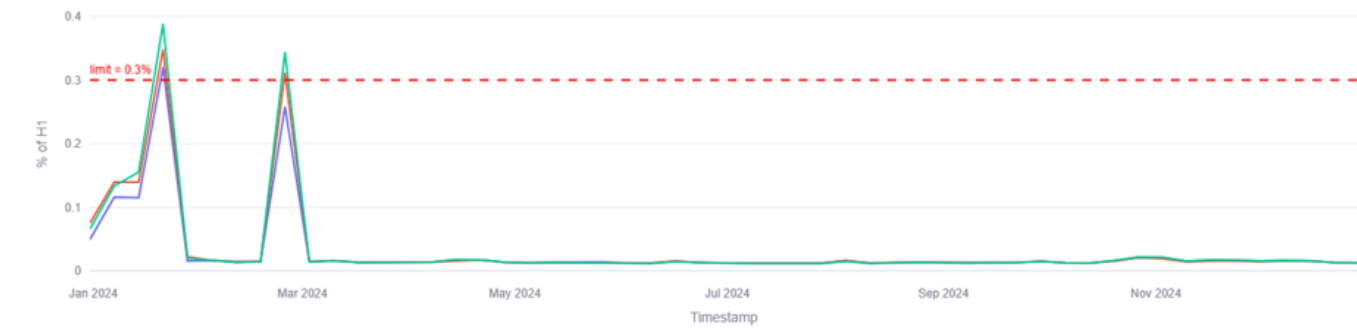


This will inevitably need to evolve to a more orchestrated approach as we move into the “third wave” of connections

- Regime change to “invest-to-connect” (new / upgraded lines)
- Potentially region-by-region
- Re-visit REZ concept



Introducing new harmonic reporting



NZEC36 Harmonic limits

Harmonic	Nominal Voltage 66kV and above Limit %	Nominal Voltage below 66kV Limit %
3	2.3	4.0
5	1.4	4.0
7	1.0	4.0
11	0.7	4.0
13	0.6	4.0
17	0.4	4.0
19	0.4	4.0
20	0.2	2.0

Continuous improvement in grid connections

Identifying further opportunities to increase throughput

Malcolm Cleland, Head of Innovation and Strategic Change



Our approach

Identifying further opportunities to increase throughput, to deliver what Aotearoa needs

Our design principles:



apply the right solutioning,
investigation and
delivery models to accelerate
progress through connection
process



greater clarity
for customers of their
solution, risks and likely
costs to better inform
investment decisions



process and solutions
integrated with
Transpower's wider work
programme to enable
flexibility for the future



Opportunities we are exploring

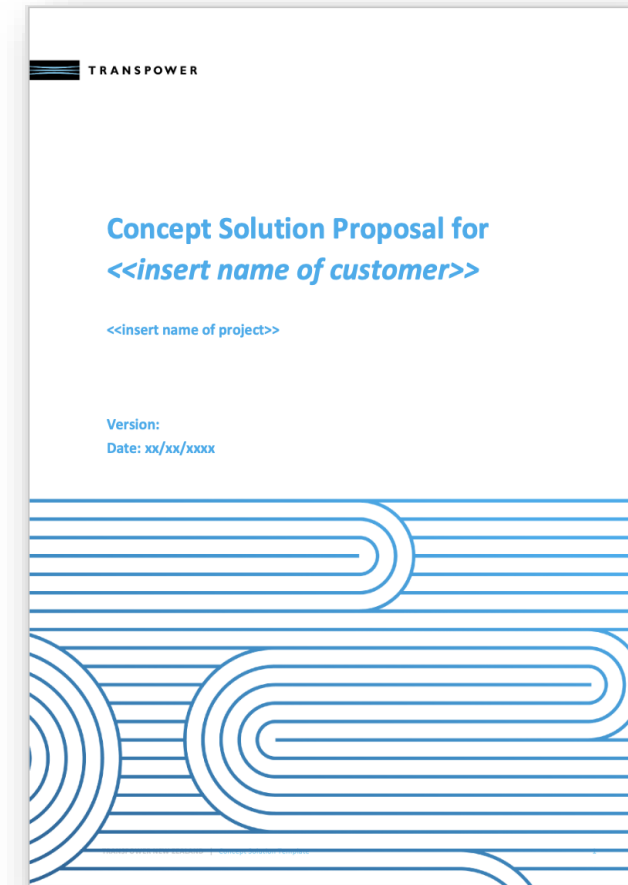
1. A new step in the process before investigation, where a **Concept Solution Proposal** is developed and offers a single connection solution to the customer
2. Right sized **pathways** through investigations for lower-complexity connections and projects that can be led by our customers
3. Increasing the requirements within the **readiness framework** and adding additional milestones.
4. Ensuring we identify and **manage dependencies** between customer connections and Transpower work.
5. Early procurement of long-lead equipment for customer projects



Revised SOW and Concept Solution Proposal

A revised Statement of Work for initial investigations - provides more detail on the scope of services and deliverables required to confirm a single connection solution.

We are starting to use a new approach to develop and deliver a single **Concept Solution Proposal** to our customers on a pilot basis, enabled by a Transpower Solutions Team (a virtual team made up of our subject matter experts).



Resolving connection bottlenecks: studies and delivery

	Studies	Delivery
1. Introduce Concept Solution Proposal	✓	✓
2. Right sized investigations pathways (including customer-led)	✓	✓
3. Increasing the readiness framework (adding milestones)	✓	✓
4. Identify and manage dependencies between customer and Transpower work (Area Grid Plans)		✓
5. Early procurement of long-lead equipment for customer projects		✓
Specialised teams	✓	✓

BCG

CENTER FOR
Energy Impact

Mind the Queue: Connection Reform for the Electricity Grid

SEPTEMBER 4, 2025

Next steps

Current activity is focusing on finalising the right size investigation pathways and Concept Solution proposal development.

Review how we manage dependencies across Transpower's work plans.

Continue to evolve connection management over time – long term view to our Te Kanapu work.

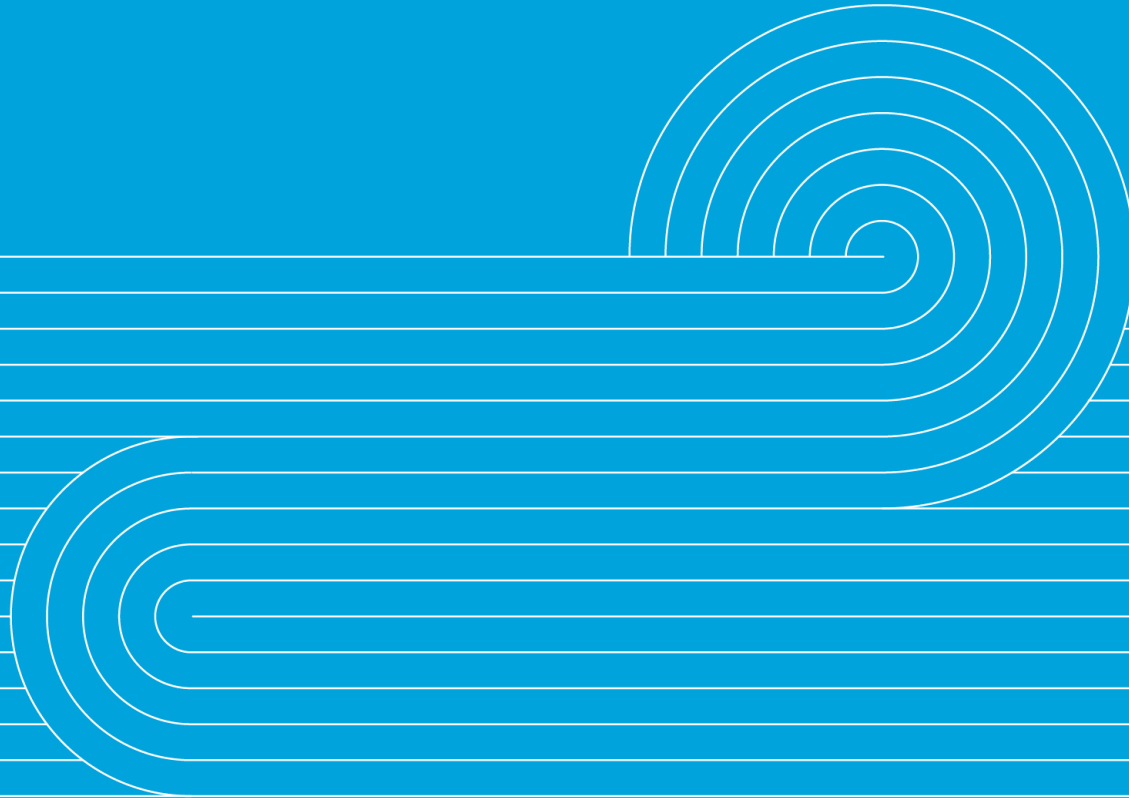
Aiming to share more detail on any changes towards the end of the year





Grid Pricing Update

Karen Smith, Senior Regulatory Advisor – Grid Pricing



Timeline for annual prices for PY2026/27



In mid-November, we will share with customers indicative covered costs and rates for PY2026/27

Target date for notification of prices – **Friday 5 December 2025**

**We are required to publish customer charges under clause 12.96(a) of the Code. Customer charges will be published by customer, connection location and charge type on our public website following individual notification in December.*

Changes affecting prices for PY2026/27

New standard method BBIs

- **NZGP1.1 – Central North Island (CNI)**

Due to the change in assumed timing for Tiwai exiting the market, we will reconsult on BBI allocations for CNI later this year.

We will provide further details soon on the process we intend to follow in finalising the BBI allocations and applying any washups.

- **WUNIVM Stage 1b – OTA STATCOM**

Starting BBI customer allocations included in our September 2025 annual grid pricing consultation have not had any pre-start adjustment events applied.

We will apply all relevant pre-start adjustment events to the allocations ahead of notifying PY2026 prices in December 2025.

Recent Code amendments

- Changes to the way connection charges are allocated for shared connection assets so the allocation is more proportionate (clause 32 of the TPM), by allocating based on the greater of AMDC and AMIC.
- Changes to the way the residual charge is allocated for new customers and changes in consumption so that the effect on the residual charge of increased consumption is more consistent across customers (clauses 69-71 and 73 of the TPM).



Post-implementation review of the TPM

Concept Consulting Ltd assisted us in conducting a post-implementation review of the TPM.

The purpose of the review was to understand how the TPM is delivering on intended objectives, identify issues and how these might be addressed.

Many thanks to those who contributed to the review by providing feedback in our survey and workshops.

We will shortly publish findings from the review, and will engage with stakeholders before the end of 2025 on next steps.

In the meantime, we are continuing to improve the educational material on our website to help our customers understand and forecast their charges.





Questions

TRANSPower.CO.NZ





Thank you

Next webinar: December 2025

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Closing **Karakia**

Unuhia, unuhia,
Unuhia ki te uru tapu nui
Kia wātea, kia māmā, te ngākau,
Te tinana, te wairua, i te ara tangata
Koia rā e Rongo, whakairia ake ki runga
Kia tina! Tina! Hui e! Tāiki e!

Translation

Draw on, draw on
draw on the supreme sacredness
to clear, to free the heart,
the body and spirit of humankind
That is Rongo suspended high above us
Draw together! Affirm!