

Building a future grid blueprint for Aotearoa

Overview

Te Kanapu is Transpower's strategic initiative to develop a future grid blueprint for 2050 and beyond. With lots of options available to meet New Zealand's energy needs, we need to explore a range of possible solutions. By planning now, we can identify where new grid infrastructure is part of that solution and deliver it on time.

About the future grid blueprint

- Our planning is based on an ambition we've heard from others, of New Zealand growing and thriving.
- To enable this future we need an affordable, reliable and resilient electricity supply for the long-term.
- The grid blueprint will identify the lowest-cost pathway to growth and will guide our least-regrets transmission investments.
- The grid blueprint looks well beyond Transpower's current planning horizon, providing a longer-term view of where major grid investment may be needed. It will inform future detailed planning and major capital investment decisions.

We will

- Publish a 30-year future grid blueprint in 2027.
- Share our thinking, our data and our evidence.
- Support sector coordination and alignment.
- Lead on long-term transmission planning.
- Highlight policy, regulatory or advocacy priorities that may be needed to support the delivery of recommended investments.

Collaboration is key

- The approach we are taking is collaborative.
- We are developing the blueprint by engaging widely, gathering views, information and knowledge from many others.
- It will be a key tool that supports planning decisions across the sector including investors, generators, large electricity users, distributors, developers, and key decision makers: their input is essential.
- We are testing our assumptions with stakeholders throughout the process, with their feedback and insights directly informing our decisions.

Find out more
and get involved



Visit transpower.co.nz/our-work/Te-Kanapu



Sign up to our [newsletter](#) and watch our webinars.



[Explore](#) the five future scenarios we are using to inform our work.



[Read](#) about our technical approach to modelling the future grid blueprint.

Ongoing engagement and communications to support the development of the grid blueprint

Phase 1: Foundation Feb – Sep 2025

Seeking views on how New Zealand will grow and thrive

Phase 2: Explore Oct – Nov 2025

Engaging and consulting on draft scenarios

Phase 3: Validate Dec 2025 – Mar 2026

Engaging and consulting on final scenarios; sharing our technical approach

Phase 4: Model Apr – Nov 2026

Technical analysis and diving deeper into key regions

Phase 5: Draft blueprint Early 2027

Engage and consult on our draft grid blueprint

Phase 6: Final blueprint Mid-2027

Publish our final grid blueprint

Phase 7: Integrate 2027 onwards

Operationalise the work and keep the conversations going