

North West Transmission Developments

Sustainability objectives and targets

Project overview

As Tasmania's energy demands increase, TasNetworks needs to strengthen the state's electricity transmission network. The North West Transmission Developments (NWTD) project, being progressed by TasNetworks, is a once in a generation upgrade to the network.

NWTD is proposed to be delivered across two stages and includes the construction of new and upgraded transmission lines, substations and switching stations.

NWTD will support new renewable energy developments and generate significant benefits and opportunities for Tasmanian communities and businesses.

TasNetworks has appointed GenusPlus Group Ltd (Genus) to deliver the works for Stage 1. Genus is experienced in electricity and communications infrastructure projects within Tasmania and nationally.

Subject to approvals, construction for Stage 1 is due to commence in 2026.

Sustainability commitment

This transformative infrastructure project is designed not only to support Tasmania's renewable energy future but also to minimise its environmental footprint. TasNetworks' vision is to deliver a transmission network that supports Tasmania's energy future while creating lasting environmental, social, and economic value.

TasNetworks is striving to achieve a 'Bronze' Design and As Built Rating for Stage 1 of the project under the Infrastructure Sustainability (IS) Rating Scheme. The scheme evaluates the sustainability performance of infrastructure developments across Australia and New Zealand.

Learn more about the Infrastructure Sustainability Council at www.iscouncil.org/is-rating/

As one of the very first Tasmanian projects to register and pursue an IS Rating, NWTD presents an opportunity for TasNetworks to lead the way in sustainability practices in Tasmania.

TasNetworks is focused on delivering environmentally sustainable outcomes for all phases of the project, whilst yielding additional environmental, social and economic benefits.



Sustainability objectives and targets

TasNetworks is delivering NWTD in alignment with the IS v2.1 \Design and As Built framework.

NWTD project contractors are required to achieve, and where possible, exceed these sustainability objectives and performance targets.

The below objectives and targets are aligned with relevant United Nations Sustainable Development Goals (SDGs), strengthening our sustainability approach under the Infrastructure Sustainability Council framework and demonstrating broader global contribution.

Resilience

Objective

- Identify, assess and treat risks to the asset associated with climate change and natural hazards.
- Develop resilient infrastructure that contributes to broader community resilience.

Performance targets

- All extreme and high-rated climate change risks are identified, assessed and appropriately treated, with no extreme residual risks remaining.
- Develop a Resilience Plan and monitor progress against implementation through annual reviews.

Energy and Carbon

Objective

- Reduce energy use and carbon emissions across both capital and operational phases compared to the project's base case.
- Drive progress towards net zero carbon through the use of renewable energy and by offsetting residual emissions.

Performance targets

- Achieve at least a 5% reduction in the project's carbon footprint, including Scope 1, 2, and 3 greenhouse gas (GHG) emissions, compared to the base case.
- Achieve at least 10% renewable energy substitution during construction.
- Identify opportunities to offset residual emissions of the project's capital and operational carbon footprint, including embodied carbon from materials.

SDG Alignment:



SDG Alignment:



Environmental Impacts

Objective

- Maintain or improve the environmental quality of local streams, rivers and water bodies.
- Manage vibration and air quality impacts to protect the community and environment.

Performance targets

- Develop and implement a Water and Waterways Management Plan.
- Implement measures to achieve vibration control and air quality goals during construction and operation, as identified through project-specific modelling.
- Maintain 100% compliance with vibration and air-quality control requirements.

Resource Efficiency and Management

Objective

- Identify, implement and manage resource efficiency across all project phases to support positive circular economy outcomes.
- Eliminate or control risks to people and the environment from contaminated materials, using sustainable remediation methods where feasible.
- Maximise reuse and recycling to reduce waste sent to landfill.
- Plan for adaptability and sustainable disassembly at the end of asset life.

Performance targets

- Achieve at least 10 % reduction in material lifecycle impacts from materials used across the project lifecycle (compared to base case).
- Use a multi-criteria assessment tool that considers environmental, social, and economic factors to assess and guide the management of all identified sources of contaminated materials during construction.
- Divert at least 85% of clean excavation spoil from landfill.
- Divert at least 70% of inert waste and 60% of office waste from landfill.
- Identify at least one feasible design opportunity that supports future adaptability and sustainable disassembly.

SDG Alignment:



SDG Alignment:



Water Management

Objective

- Reduce water demand across the infrastructure life cycle.
- Use water sources of suitable quality for the project's end uses, while minimising demand on potable water supplies, protecting the environment, and supporting the use of alternative water sources.

Performance targets

- Achieve at least a 5% reduction in total water use compared to the base case.
- Achieve at least a 50% reduction in potable water use during construction.

Stakeholder Engagement

Objective

- Design and implement a stakeholder engagement strategy that recognises key stakeholder and community values, interests, and concerns, and promotes inclusive, participatory approaches.
- Implement high quality stakeholder engagement where key stakeholders can contribute to and have influence on project outcomes.

Performance targets

- Develop a Stakeholder Engagement Strategy informed by local context and stakeholder characteristics and integrate it into project governance.
- Demonstrate that stakeholder input contributes to positive outcomes for at least one high-priority stakeholder issue.

Heritage

Objective

- Maintain or enhance local heritage values across all infrastructure phases and raise awareness of these values with project stakeholders and the community.

Performance targets

- Develop a Cultural Heritage Management Plan to control and minimise impacts to the greatest extent possible.

SDG Alignment:



SDG Alignment:



SDG Alignment:



Get in touch

To learn more about the North West Transmission Developments:



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