

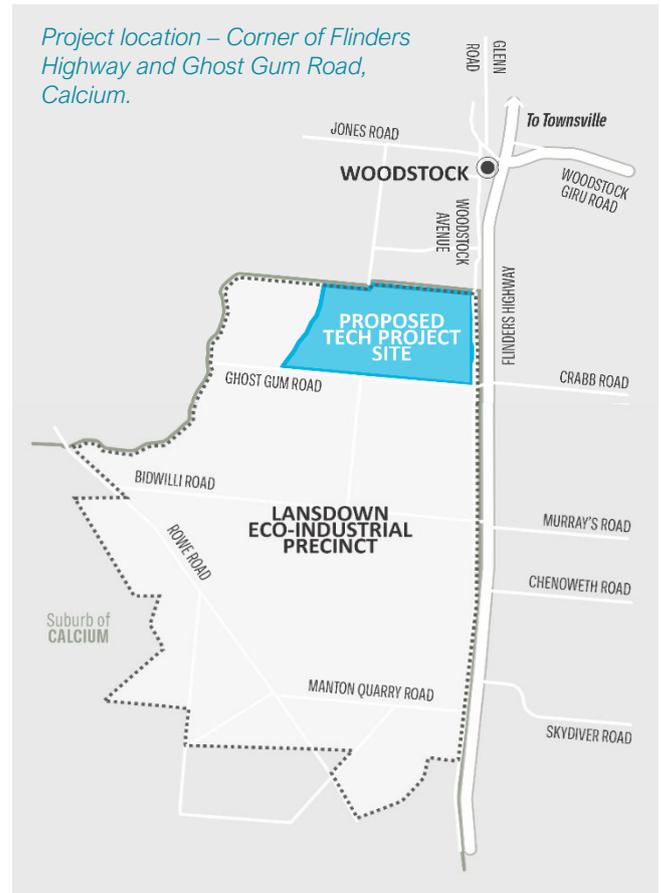
## About the Project

Queensland Pacific Metals (QPM) proposes to design, construct and operate the Townsville Energy Chemicals Hub (TECH Project). The TECH Project is a sustainable, high-purity battery materials refinery that is being developed in response to the growing demand for battery materials for electric vehicles, in particular nickel and cobalt. A Development Application (DA) has been prepared and submitted for approval.

The Project is planned to be constructed in the Lansdown Eco-Industrial Precinct, approximately 40 km south of Townsville, near the town of Woodstock.

QPM will process 1.5 million wet metric tonnes per year of high-grade nickel laterite ore imported from New Caledonia using a new processing technology that was developed in conjunction with the CSIRO, known as the Direct Nickel Process (DNI Process™). The DNI Process™ is a sustainable process with minimal waste, low GHG emissions and no tailings dam.

Forecast demand for nickel and cobalt is expected to double over the next decade, driven by the global shift to electric vehicles. The TECH Project will be a global leader in sustainability in the industry, addressing the increased focus on sustainability within the automobile industry.



## Project timeline

The Project is in the planning and approval phase with the DA having been lodged with Townsville City Council on December 2, 2021. In addition, a referral under the *Environment Protection and Biodiversity Conservation Act 1999* was submitted to the Commonwealth Department of Agriculture, Water and the Environment (DAWE) in September 2021. A variation to the referral was made to DAWE due to a change in project footprint and was accepted in December 2021. In parallel with these processes, QPM has engaged Hatch to complete a definitive feasibility study due for completion in mid-2022. In parallel QPM are undertaking execution planning with construction expected to start in mid-2022 with production expected mid-2024.



*Project is sited on land that has been historically cleared of native vegetation and cultivated in recent past.*



*Clean technology*



*State and local government support*



*Waste product is a neutralised residue. There is no tailings dam*



*QPM is investigating with JCU potential uses for the neutralised residue*



*Lower greenhouse gas emission intensity compared to traditional refineries*

## Project benefits

The Project will be a significant development for Townsville, supporting the city's growing industrial diversification and offering significant employment opportunities for individuals and local businesses. With an initial 30-year operational life, the Project is anticipated to deliver significant socio-economic benefits to the Townsville region.



Establishing a new sustainable industry, supporting the growing renewable energy sector



Creating new skilled jobs:  
- around 800 jobs during construction  
- 300 jobs during operation



Contributing to economic growth and long-term prosperity

In May 2021, QPM signed a Cultural Heritage Management Agreement with the Bindal People, the Traditional Owners of the Lansdown site. QPM has committed to entering into a Heads of Agreement with the Bindal People, to deliver Indigenous employment policies, training, apprenticeships, and other opportunities.

## Supply and construction opportunities

The TECH Project is registered with the ICN Gateway. Packages will progressively appear on Gateway in the second quarter of 2022. Packages will be issued to selected suppliers for indicative/firm pricing during this period. Operations supply/service contracts will not go to the market until the second half of 2022. QPM strongly encourages local and Indigenous suppliers to apply. To register your interest please keep in contact with ICN via Gateway at <http://gateway.icn.org.au>. To find out more information about the Project please visit the QPM website at [www.qpmetals.com.au](http://www.qpmetals.com.au).

## Development application (DA) and environmental assessment – key findings

A comprehensive assessment has been undertaken against the Townsville planning scheme, North Queensland Regional Plan and relevant state codes, of which a high level of compliance is achieved with relevant performance and acceptable outcomes. In support of the DA, ecology, acoustics, air quality, surface water, traffic, geochemistry and groundwater assessments have been undertaken to determine the potential impacts of the Project on environmental values of the subject site and surrounds and how these impacts will be managed.

- Water and land
  - No water from the process plant/refinery will be discharged to the Ross River catchment. There is negligible risk to the drinking water catchment, environmental values or agricultural land uses
  - No extraction of groundwater. Construction water will be trucked and water for operations taken from the Haughton pipeline
  - All industrial areas will be lined and on impervious surfaces, therefore no discharge of contaminants to groundwater or soils
- Ecology
  - Riparian vegetation and waterways are avoided. Biodiversity values will be enhanced through regeneration of vegetation communities on site
  - Only 4.2 hectares of mature vegetation will be cleared, representing 1.4% of the site.
- Amenity
  - Noise levels up to 43 decibels at sensitive receivers, equivalent to a quiet residential area
  - Air quality levels comply with the Queensland and Australia-wide criteria for atmospheric emissions at all sensitive receivers.



FOR MORE INFORMATION  
ABOUT THE PROJECT, AND TO  
REGISTER INTEREST IN  
SUPPLYING OR  
CONSTRUCTION PACKAGES



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