

Energy Transition – Mackay Project

Challenge

Energy costs are increasing for everyone. Industry wide, businesses big or small are starting to recognise they need to find a way to reduce costs, decarbonise and meet their Environmental, Social and Governance (ESG) requirements.

Businesses are individually working through their environmental/ sustainability plans. Often these individual business initiatives are driven by vendors (e.g. mining or export agriculture companies). Taking a community or precinct approach can unlock additional benefits by having businesses work together on a win-win basis. These potential benefits include sharing, transacting and benefitting from each other's excess renewable energy generated through the day and identifying and matching loads and battery storage scenarios, again on a win-win basis.

Energy security and availability for business growth is critical, often individuals are constrained from installing large solar / battery / EV infrastructure as networks are constrained. A community or precinct approach allows a greater voice and potential support in the range of government regulations that get in the way. This has potential to help with the future growth of the Port of Mackay precinct and in the long term, create energy saving for businesses across the region.

Energy Transition – Mackay Project

The "Energy Transition - Mackay" project, in collaboration with Resource Industry Network and North Queensland Bulk Ports (NQB), aims to investigate the opportunity to transition the port and surrounding businesses towards renewable energy solutions. This proposal outlines the stages and steps involved in executing an Energy Transition Feasibility Study through a series of workshops and consultations that Advancing Communities Australia would support.

At the end of the study a potential model for transitioning the Port of Mackay operations and tenancies to renewable energy via solar will be delivered. This will include information on:

- Infrastructure requirements
- Policy/economic incentives, opportunities and constraints
- Details regarding the set-up of the dynamic connections identified
- Service life of the equipment required
- Details on the next steps

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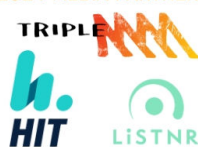
2024 STRATEGIC PARTNERSHIPS ADVANCED MANUFACTURING INNOVATION IN MINING



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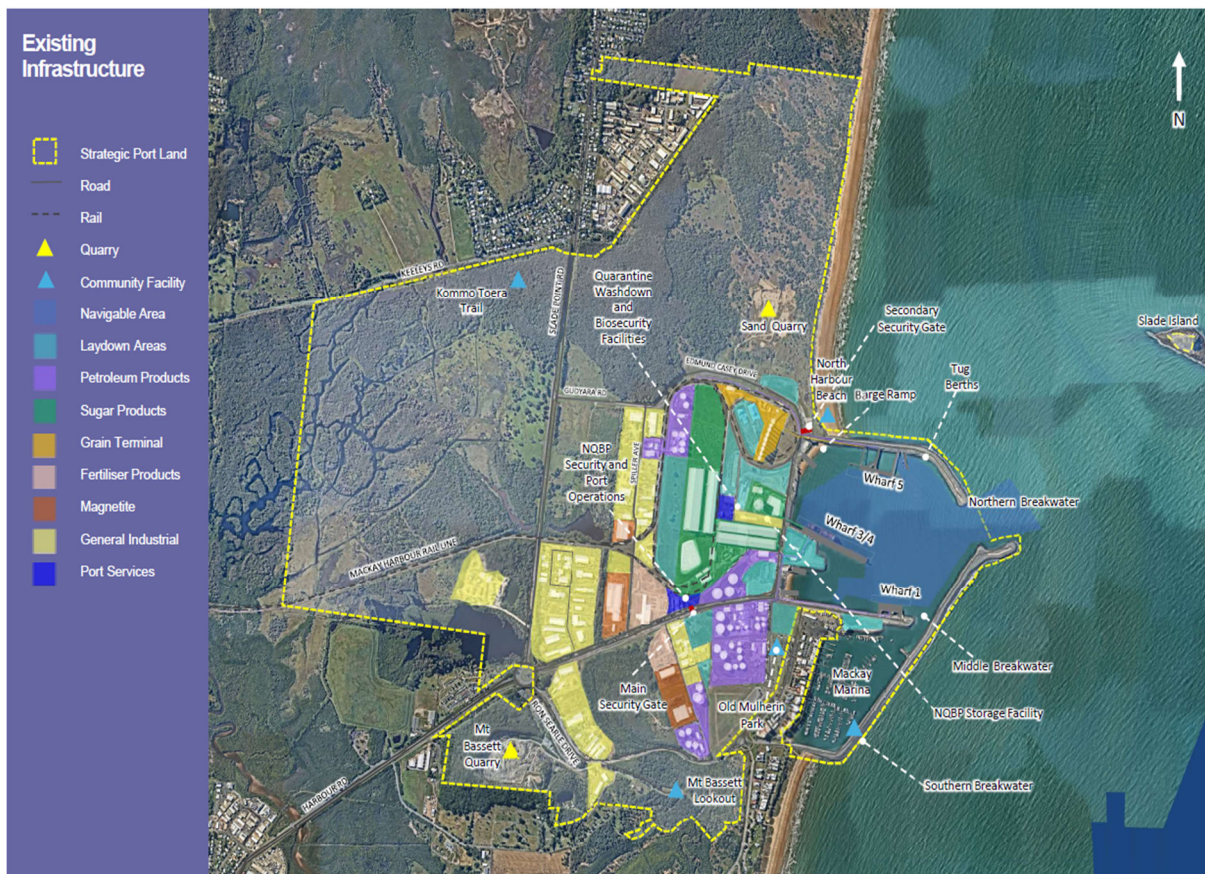


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The project will utilise existing data and feedback from port users and tenants to investigate the short term (0-5 years), medium term (5-10 years) and long term (15 to 30 years) energy requirements of existing and future port users and tenants. It will focus on the use of solar as the renewable source only at this stage.

The study area boundary is the Strategic Port Land at the Port of Mackay. This is illustrated below:



Stage 1 of the Energy Transition – Mackay project is a detailed study to understand the current isolated energy usage of the precinct tenants and analysing the potential energy opportunities that will create energy savings for businesses in the port precinct.

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Target Project Outcomes

Project Deliverables

Project Stage	Deliverable
Stage 1	Start Up Meeting with Tenants
	Participants List Compiled
	Initial Data Gathering Interviews
Stage 2	Isolated Energy Information Analysis Report Compiled
	Project Workshop – Isolated Energy Phase Completed
Stage 3	Potential Energy Information Analysis Report Compiled
	Project Workshop – Potential Energy Phase Completed
Stage 4	Final Report Completed
	Presentation to NQBP
	Project Workshop – Present Energy Transition Technologies, Policy Initiatives, Financial Modelling and Dynamic Connections.

Next Steps

- Develop interest and buy-in from Port of Mackay tenants to be part of the ‘Stand up Energy Transition – Mackay Development Group’ (Project Governance).
- Invite support from local businesses within the precinct to express interest in the program including the sharing of individual energy data to perform community analysis.
- Tenant interviews and site visits to gather business energy use information.

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