

**Torres Strait Island**  
REGIONAL COUNCIL

# AGENDA

## CLIMATE CHANGE ADAPTATION AND ENVIRONMENT COMMITTEE

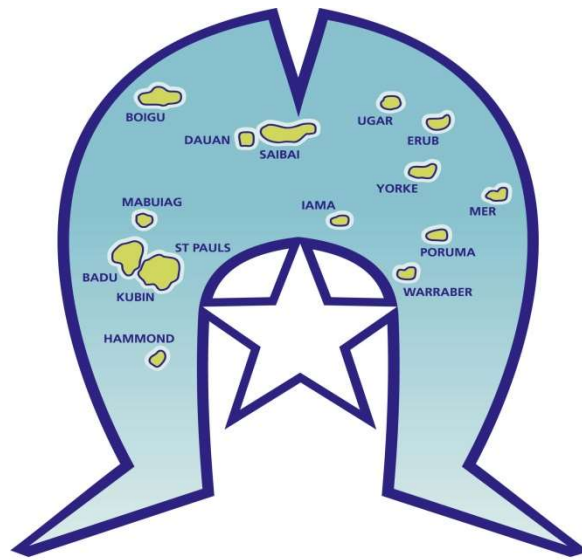
Date: Tuesday, 17<sup>th</sup> January 2023

Time: 10:00am – 12:00pm

Venue: Video Conference #7 – 0299 165 401

## **Agenda**

1. Welcome (Chair)
2. Opening Prayer
3. Apologies
4. Declaration of Conflict of Interest (COI) (Prescribed and Declarable)
5. Noting of previous Ratified minutes – 16<sup>th</sup> August 2022
6. Action Items List
7. Information Report – QLD Decarbonisation Strategy
8. Agenda Report - Marine Ghost Nets Innovative Solutions Fund
9. Agenda Report – TSIRC Metal Waste Legacy Stockpile Clean-Up Project Continuation
10. **COMMITTEE MOVES INTO CLOSED BUSINESS**
11. Closed Business Information Report (verbal) – Seawalls Projects Continuation
12. Closed Business Information Report (verbal) – Climate Change Case and Data Requested
13. Closed Business (Presentation) – Mirabou Energy
14. **COMMITTEE MOVES OUT OF CLOSED BUSINESS**
15. Agenda Report (TSIRC and Alluvium co-presenting) - CHAS Engagement Briefing
16. General/ Other Business (on notice)
17. Next meeting date – 23<sup>rd</sup> March 2023
18. Closing Prayer



**Torres Strait Island**  
REGIONAL COUNCIL

# Draft Minutes

## CLIMATE CHANGE ADAPTATION AND ENVIRONMENT COMMITTEE

Date: Tuesday, 16<sup>th</sup> August 2022

Time: 10:08am – 11:11am

Venue: Video Conference #7 – 0299 165 401

**PRESENT:**

Cr Hilda Mosby – Chair, Division 12 – Masig (Yorke)  
Cr Seriako Dorante – Committee Member, Division 8 – Kirirri (Hammond)

**APOLOGY:**

Cr Kabay Tamu, Division 10 – Warraber – Boundary Marking Project (GBK) - Warraber

**STAFF:**

Mr David Baldwin, Executive Director Engineering Services  
Mr Peter Krebs, Acting Executive Director Corporate Services  
Ms May Mosby, Acting Secretariat Officer



## **Agenda**

### **1. Welcome (Chair)**

Chair, Cr Hilda Mosby welcomed everyone to the meeting today and acknowledged the traditional landowners of the land we meet.

Meeting commenced at 10:08am.

### **2. Opening Prayer**

Cr Hilda Mosby invited Cr Seriako Dorante to open with a word of prayer.

### **3. Apology**

- Cr Kabay Tamu, Division 10, Warraber – attendance at a boundary marking project (GBK) at Warraber.

#### **RESOLUTION:**

*Move: Cr Hilda Mosby; Second: Cr Seriako Dorante*

**That the Climate Change Adaptation and Environment Committee accepts the apology of Cr Kabay Tamu for his absence at this meeting.**

**MOTION CARRIED UNANIMOUS**

Cr Dorante also advised that he may have to dial out of the meeting after an hour or so due to his busy work schedule.

### **4. Declaration of Conflict of Interest (COI) (Prescribed and Declarable)**

Cr Hilda Mosby declared her conflict of interest on the following position:

- Board member of Torres Strait Island Regional Authority and holds the Environmental portfolio.

### **5. Noting of previous Ratified minutes – 11<sup>th</sup> March 2022**

The Committee notes the previous Ratified Minutes of 11<sup>th</sup> March 2022. Mr Peter Krebs, Acting Executive Director Corporate Services/Manager Legal Services advised that a resolution to move and second the ratified minutes is not required.

### **6. Action Items List**

No action items.

### **7. Climate Change Engagement Policy**

Mr Peter Krebs, Acting Executive Director Corporate Services spoke to the report. Seeking endorsement of the committee to take to full council to be made a formal policy and engagement procedure.

Chair and Committee acknowledged and thanked Mr Peter Krebs and Mr David Baldwin for putting together the Climate Change Policy.

Cr Dorante asked if the main key areas could be incorporated into the report to the full Council so Council will have a clear understanding around the policy going forward.

**ACTION: Acting Executive Director Corporate Services to ensure the main key areas are incorporated into the Climate Change Engagement Policy when presented to full Council.**

**RESOLUTION:**

*Move: Cr Hilda Mosby; Second: Cr Seriako Dorante*

That the Climate Change Adaptation and Environment Committee note the information contained in this report and recommend the Climate Change Policy for endorsement by Council.

**MOTION CARRIED UNANIMOUS**

**8. TS Regional Climate Change Workshop June 2022 (verbal) – Information Report**

Mr David Baldwin provided a verbal update to the Committee regarding the two (2) day workshop on Thursday Island in June as being productive and the discussions had around culture and climate change and what it means for our decisions making methods.

Mr Baldwin mentioned that he received an email from John Rainbird from TSRA regarding the outcome of the workshop which he will distribute to the Committee. The Torres Strait Regional Adaptation and Resilience Plan of 2016-2021 will be revised from what came out of the workshop.

**ACTION: Executive Director Engineering Services to email the Committee the outcome of the June Workshop on Thursday Island.**

Mr Baldwin also mentioned that he received confirmation of funding of around \$200k - \$300k through the Queensland Resilience and Reduction Fund to employ a Coastal Hazard Resilience Officer for a term of 2 years. This position will be responsible for implementing a variety of activities aimed at improving community resilience to coastal hazards; improving communities' resilience to coastal hazards achieved through enhancing an understanding and awareness of coastal hazards risks.

**ACTION: Executive Director Engineering Services to provide the Committee out of session, an email about the role and responsibility of the Coastal Hazard Resilience Officer.**

This role will work with alongside Mr Colin Messa, Waste and Biosecurity Officer on Masig and other Sustainability Officers.

**9. Environment and Health Workshop June 2022 (verbal) – Information Report**

Mr David Baldwin provided a verbal update on the above Workshop. The workshop was held in June in Cairns for a week and was organised by Mr Ewan Gunn and his Environmental Health Team. David attended and opened the workshop in the absence of the CEO at the time. In attendance were some of the Engineering staff such as Jarrah Doran-Smith, Adeah Kabai, Mat Brodbeck, Amanda Pearce and Robert Seekee. Focus was around biosecurity and waste management. Moving forward, the Environmental Health team and Engineering team will work more hand in hand.

**10. COMMITTEE MOVES INTO CLOSED BUSINESS**

**RESOLUTION:**

*Move: Cr Hilda Mosby; Second: Cr Seriako Dorante*

That in accordance with Section 254J of the *Local Government Regulation 2012* (Qld) it is resolved for the meeting to go into closed business to discuss matters of the following nature:

(e) legal advice obtained by the local government or legal proceedings involving the local government.

(g) negotiations relating to a commercial matter involving the local government for which a public discussion would be likely to prejudice the interests of the local government.

**MOTION CARRIED UNANIMOUS**

- 11. **Metal Waste Legacy Clean-up**
- 12. **Seawalls Program (verbal)**

Advice was provided to Cr Seriako Dorante that he is not required to declare a conflict of interest as employee of Seaswift as the report is based around funding issues with regards to the project and Cr Dorante therefore could remain in the meeting.

**13. COMMITTEE MOVES OUT OF CLOSED BUSINESS RESUME IN OPEN BUSINESS**

**RESOLUTION:**

*Move: Cr Seriako Dorante; Second: Cr Hilda Mosby*

That Council resolves to move out of closed business and resume in open business.

**MOTION CARRIED UNANIMOUS**

**Resolution for noting following closed business:**

**Metal Waste Legacy Cleanup**

**RESOLUTION:**

*Move: Cr Hilda Mosby; Second: Cr Seriako Dorante*

That the Climate Change Adaption and Environment Committee note this report.

**MOTION CARRIED UNANIMOUS**

**14. General/ Other Business (on notice)**

Chair, Cr Hilda Mosby spoke on climate change affecting our communities.

Mr David Baldwin advised that there are presently two vacancies in the Engineering Dept. The Water and Wastewater and Project Engineer. The Water and Wastewater position will look at our emissions footprints however, we have CHAS (Coastal Hazard Adaptation Strategy).

**ACTION:** Executive Director Engineering Services to provide Committee with an update on CHAS at the next Committee meeting.

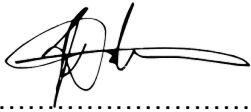
**15. Next meeting date**

Wednesday, 28<sup>th</sup> September 2022

**16. Closing Prayer**

Chair, Cr Hilda Mosby thanked everyone for their attendance and invited Cr Seriako Dorante to close the meeting in a word of prayer.

**MEETING CLOSED – 11:11AM**



.....  
Mr James William  
Chief Executive Officer  
Torres Strait Island Regional Council  
Date: 18/10/2022



.....  
Cr Phillemon Mosby  
Mayor  
Torres Strait Island Regional Council  
Date: 18/10/2022

**CLIMATE ADAPTATION AND ENVIRONMENT COMMITTEE  
ACTION ITEM REGISTER**

Date	Agenda Item	Action Item	Action Officer	Update/ Comments	Due Date	Recommendation
16.08.2022	Climate Change Engagement Policy	Acting Executive Director Corporate Services to ensure the main key areas are incorporated into the Climate Change Engagement Policy when presented to full Council.	Executive Director Corporate Services			
16.08.2022	TS Regional Climate Change Workshop June 2022	Executive Director Engineering Services to email the Committee the outcome of the June Workshop on Thursday Island.	Executive Director Engineering Services			
16.08.2022	TS Regional Climate Change Workshop June 2022	Executive Director Engineering Services to provide the Committee out of session, an email about the role and responsibility of the Coastal Hazard Resilience Officer.	Executive Director Engineering Services			
16.08.2022	General Business	Executive Director Engineering Services to provide Committee with an update of CHAS at the next Committee meeting	Executive Director Engineering Services			

# TORRES STRAIT ISLAND REGIONAL COUNCIL

## INFORMATION REPORT

STANDING COMMITTEE: Climate Change Adaptation and Environment Committee  
DATE: Tuesday 17<sup>th</sup> January 2023  
SUBJECT: Queensland Decarbonisation Strategy  
AUTHOR: Jarrah Doran-Smith – Waste & Sustainability Engineer

### Recommendation:

That the Climate Change Adaptation and Environmental Committee notes this report.

### Purpose:

The purpose of this report is to provide an update and overview to the Climate Change Adaptation and Environmental Committee in relation to the energy options and solutions proposed at different levels of government, including the Queensland Energy and Jobs Plan, and Energy Queensland / Ergon Isolated Networks Strategy 2030.

### Summary:

In the past century, temperatures across land and ocean have increased by over 1 degree Celsius. This increase in global temperatures is intrinsically linked to the increase in global Greenhouse Gas (GHG) emissions. According to the International Panel on Climate Change (IPCC) (2022), approximately 34% of total GHG emissions came from the energy supply sector, 24% from industry, 22% from agriculture and forestry, 15% from transport, and 6% from buildings. This presents a critical situation in which sea levels across the world are now rising at the fastest rate in over 2,500 years which poses exceptional risk for coastal communities of the Torres Strait.

Due to this, governments and private sectors have recognised the need to reduce emissions and are wanting to play their part to ensure the sustainability of our societies. This report provides an overview of decarbonisation energy proposals in both a broader context of the Queensland Government strategies and more specifically isolated networks currently owned and operated by Energy Queensland (Ergon Energy).

### Queensland Energy and Jobs Plan

The Queensland government have recognised that more needs to be done to reduce emissions and have recently announced the Queensland Energy and Jobs Plan which represents \$62 billion of investment in the energy system of Queensland up to 2035. Their investment in a super grid, wind and solar farms and renewable storage allows them to set new renewable energy targets for Queensland. Their proposed new targets will be 70% renewable energy by 2032 and 80% by 2035.

The Queensland Energy and Jobs Plan sets out actions across three focus areas to transform the Queensland energy system:

1. Clean energy economy
2. Empowered households and businesses
3. Secure jobs and communities.

Action 3.5 is the clean energy for remote and First Nations communities. This action outlines the Government's commitment to ensuring that regional and remote communities, including

First Nations communities, can share the benefits of clean, reliable and affordable energy into the future. In June 2022, the Queensland Government committed \$10 million to deliver a Queensland Microgrid Pilot Fund to improve network resilience of these communities. The Government is committed to zero net electricity emissions across Energy Queensland's isolated power stations. To achieve this commitment, an inclusive Remote and First Nations clean energy strategy will be co-designed by remote First Nations communities and the Queensland and Australian governments. Energy Queensland will be directed to update its Isolated Networks Strategy 2030 taking into account the Australian Government initiatives to chart a pathway to net zero.

Unfortunately, while Queensland Department of Energy and Public Works have released the Queensland Microgrid Pilot Fund for First Nation communities to apply for up to \$750K, TSIRC is not eligible for this funding as it is designed for distributed energy networks rather than isolated networks such as the Torres Strait energy networks.

### **Energy Queensland (Ergon Energy) Isolated Networks Strategy 2030**

Ergon Energy Network has 33 stand-alone micro-grids that form their Isolated Networks. They supply 39 communities with approx. 8,3001 connections and 21,0001 customers. This includes the 15 outer Torres Strait Island Communities within TSIRCs LGA.

In March 2021 Ergon released their Isolated Network Strategy 2030 ambition statement:

"To enable community participation in energy supply and services in isolated networks to provide sustainable, cost effective and reliable solutions."

The strategy for the Isolated Networks is to transition to renewable energy by actively enabling, predominantly, customer or community owned and operated renewable generation. This is largely rooftop solar energy, with smart monitoring and control. This transition from traditional network and generation to modern and sustainable is through the phases of enable, establish and evolve.

While their ambition and strategy depict a commitment to renewable energy and decarbonisation of their isolated networks, their target of 17% reduction in emissions by 2030 and 50 % renewable energy target by 2030 does not align with the 2022 Queensland Energy and Jobs Plan. These figures reflect outdated Policies and have not been updated to reflect the Queensland Energy and Jobs Plan.

Members of Council's Engineering department recently had a meeting with the Microgrid Projects Engineer at Ergon Energy to discuss the company's plans to transition the Torres Strait Island isolated networks to renewable energy. During the meeting they discussed their three stage approach to transition the Isolated Networks, however limited commitments and timeframes were provided for TSIRC LGA:

**Stage 1** (1-2 years) – allow for more unmanaged solar on houses

**Stage 2** (no timeframe provided) – develop managed solar interactions within network. This was proposed to compensate for 15% of the energy supply.

**Stage 3** (no timeframe provided) – "Diesel off-state" whereby centralized renewable energy network will be the primary source of energy throughout the isolated networks.

Ergon are currently investigating possible renewable options in the TSIRC LGA and presented some work they undertook relating to lama and solar. This work was presented at the recent Technical Working Group meeting and an extract is attached to this report.

## Conclusion

It is recommended that the that the Climate Change Adaptation and Environmental Committee notes the report.

## Attachments

- Queensland Energy and Jobs Plan Overview
- lama (Yam) Island Decarbonisation Option Overview



Author:

Jarrah Doran-Smith

Waste & Sustainability Engineer



Approved:

David Baldwin

Executive Director – Engineering Services



# QUEENSLAND ENERGY AND JOBS PLAN

Power for **generations**

**70%**  
Renewable Energy  
by 2032



100,000 jobs

OVERVIEW | September 2022







**“My Government has a long standing commitment of 50 per cent renewable energy by 2030, and now we are accelerating our progress. We are committing an extra \$4 billion to our energy transformation and setting two new renewable energy targets of 70 per cent renewable energy by 2032 and 80 per cent by 2035. We will showcase our clean energy credentials to the world as we prepare to deliver a climate positive Olympic and Paralympic Games in 2032.”**

**Annastacia Palaszczuk**

*Premier of Queensland and Minister for the Olympics*

**“Cleaner energy will enable exciting new industries like renewable hydrogen which could represent billions in exports and thousands of new clean energy jobs, mostly in our regions.”**

**Steven Miles**

*Deputy Premier, Minister for State Development, Infrastructure, Local Government and Planning and Minister Assisting the Premier on Olympics Infrastructure*

**“Through this Plan, we will keep public ownership of our energy system, with 100% ownership of transmission, 100% ownership of deep storage, and majority ownership of generation.”**

**Cameron Dick**

*Treasurer and Minister for Trade and Investment*

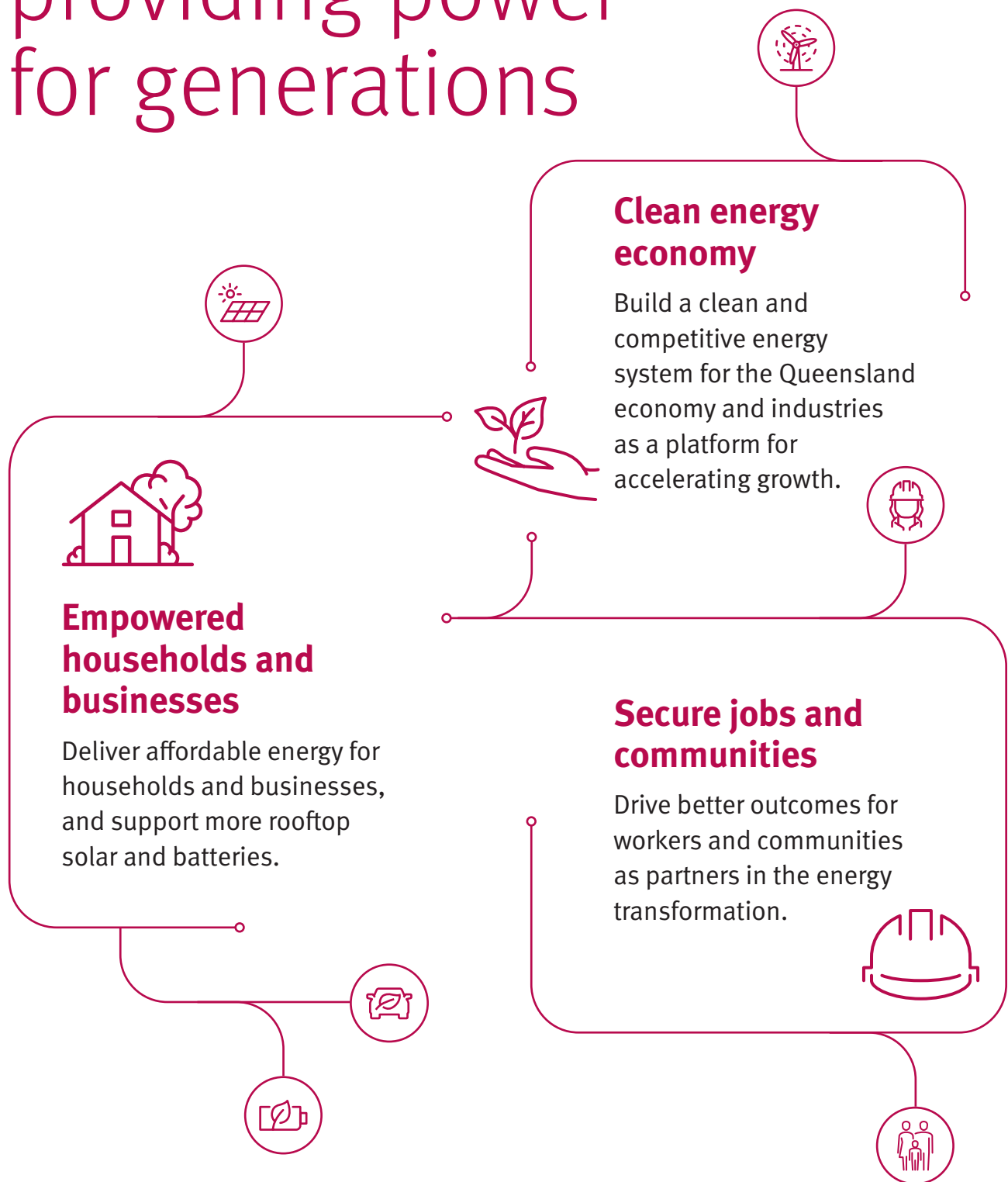
**“This Plan will build the new ‘Queensland SuperGrid’ – the renewable energy, storage and network infrastructure we need to power our industries, businesses and homes.”**

**Mick de Brenni**

*Minister for Energy, Renewables and Hydrogen and Minister for Public Works and Procurement*



# Queensland's **SuperGrid** providing power for generations



## A Plan to deliver

*More  
jobs*

*More  
industries*

*Affordable  
power*

*Lower  
emissions*

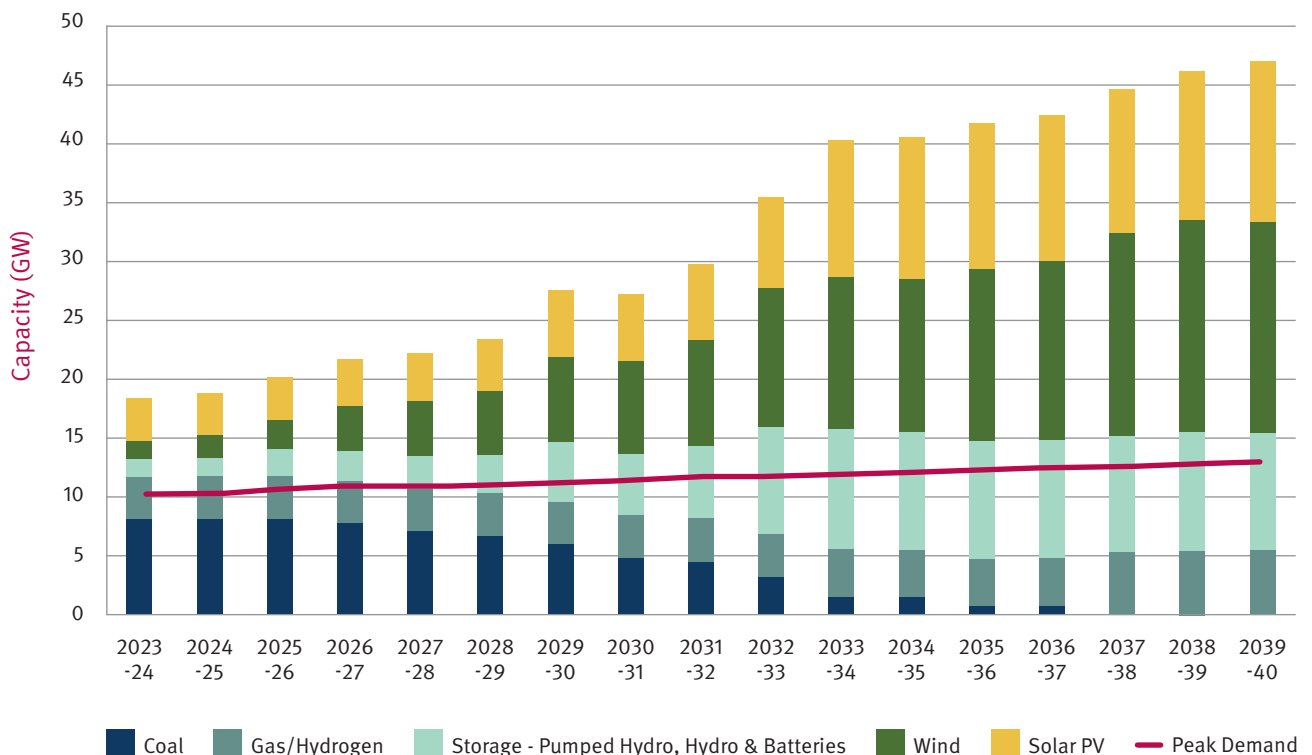
*Stronger  
growth*





## Queensland's SuperGrid will deliver clean, reliable and affordable power

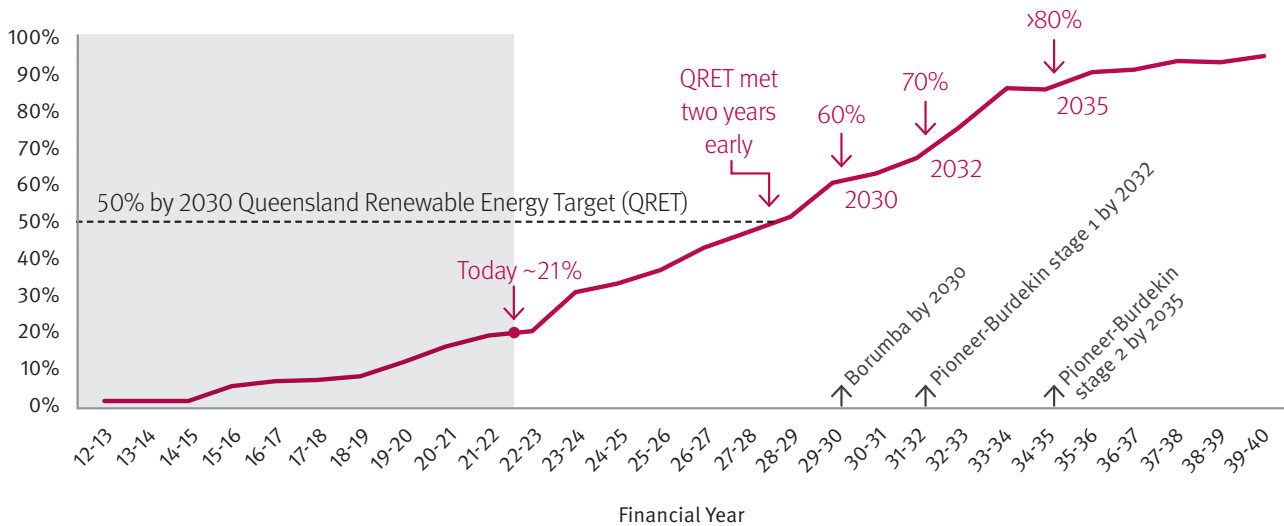
Queensland's generation mix will transform over time to include more wind, solar and storage to ensure we always have enough energy to meet Queensland's energy demand including at peak times.



Based on independent modelling

# Under the Plan Queensland beats the 50 per cent renewable energy target

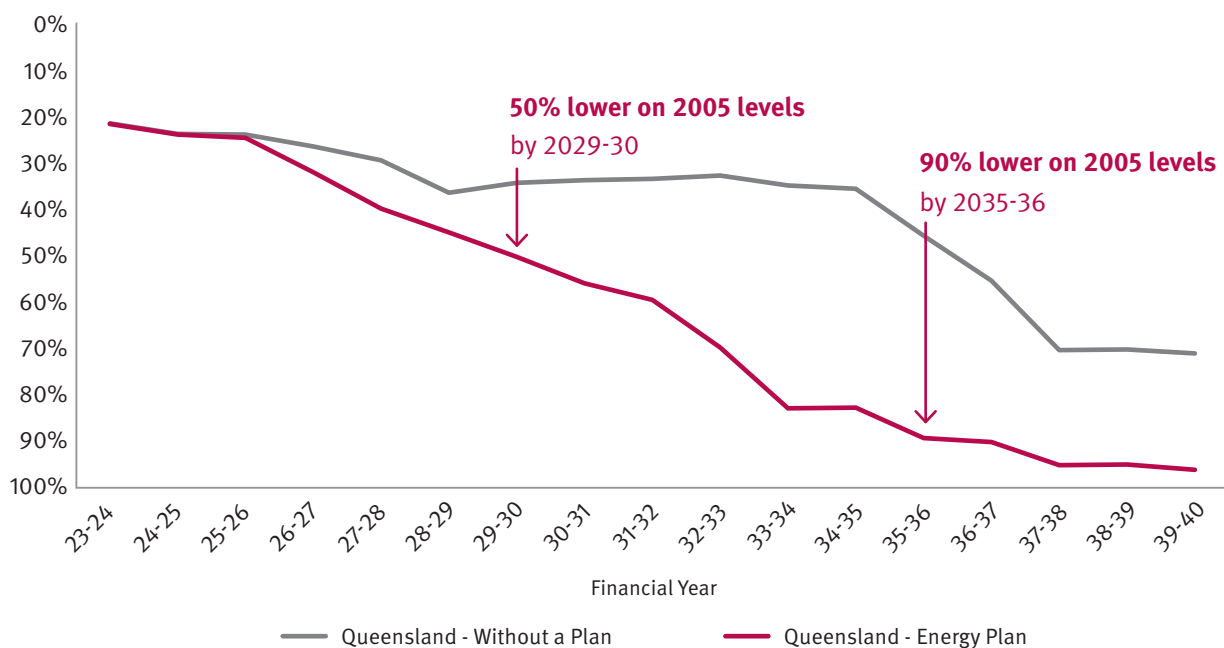
## Renewable energy percentage under the Queensland Energy and Jobs Plan



## And reduces electricity emissions

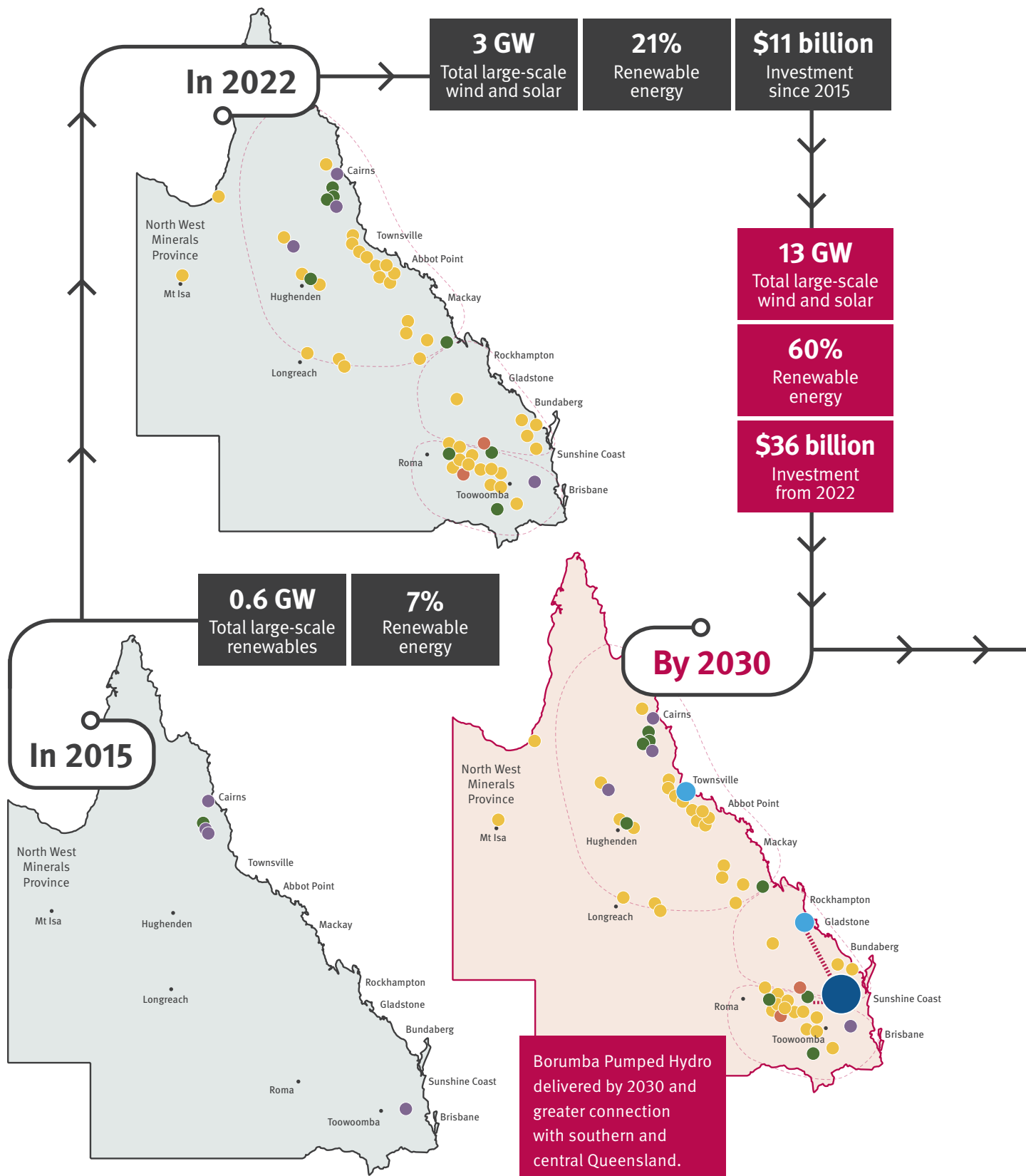
Lower electricity emissions – **90 per cent lower** by 2035-36

### Electricity emissions (reduction on 2005 levels)



Based on independent modelling

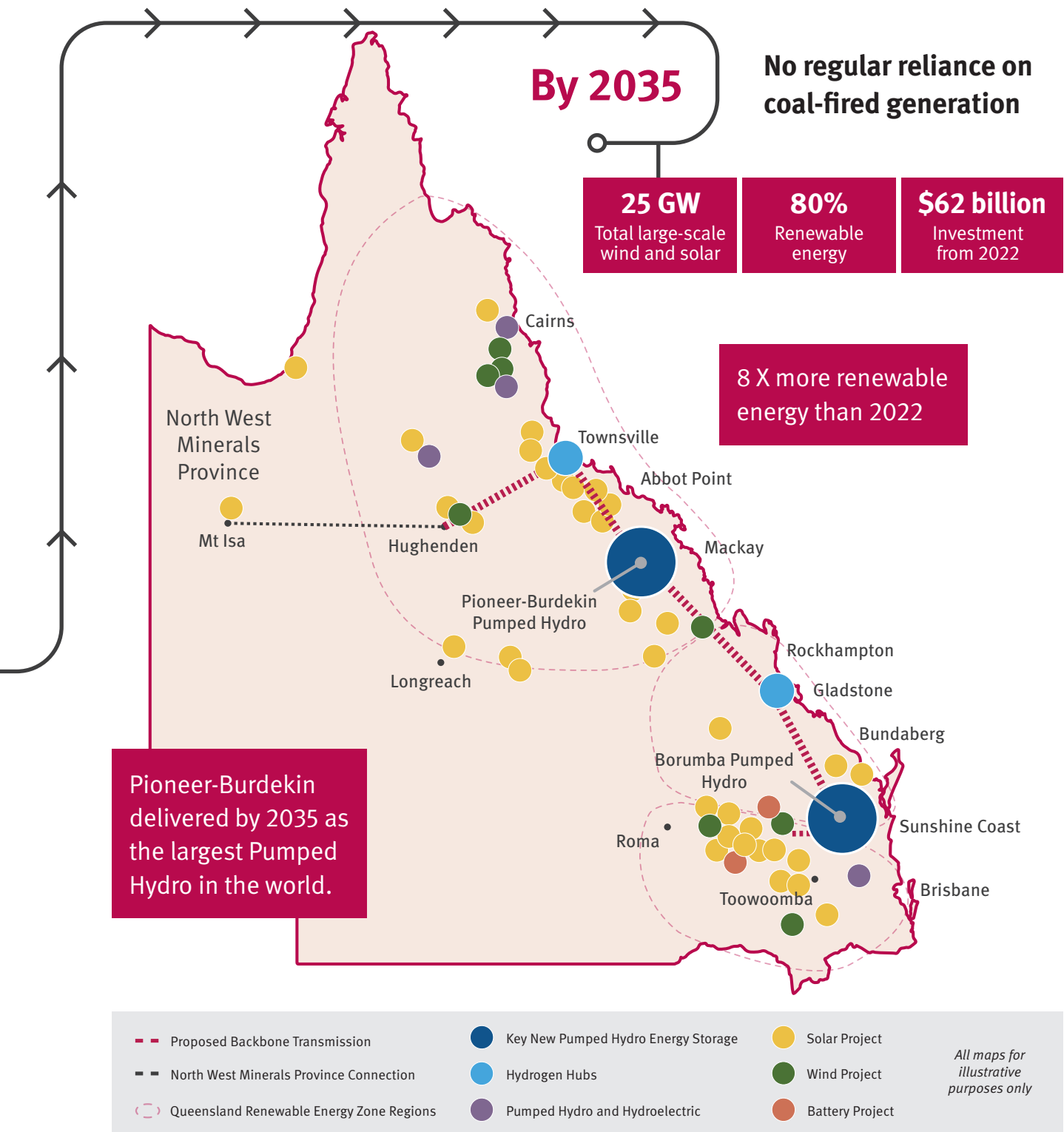
# Building the Queensland SuperGrid



*A number of historical smaller bioenergy sites also operational at this time*

## What is the Queensland SuperGrid?

The SuperGrid is all of the elements in the electricity system, including the poles, wires, solar, wind and storage that will provide Queenslanders with clean, reliable and affordable power for generations.



The Queensland Government has outlined the optimal infrastructure pathway in the *Queensland SuperGrid Infrastructure Blueprint*.

*Projections informed by independent modelling and internal analysis*

# This Plan represents an extra \$4 billion down payment on Queensland's energy transformation

## \$2.5 billion boost

to the Queensland Renewable Energy and Hydrogen Jobs Fund to make it a **\$4.5 billion Fund**, including \$500 million for grid and community batteries, and a hydrogen-ready gas peaker



**64,000 jobs** from building the SuperGrid including direct and indirect jobs by 2040\*

**36,000 more jobs by 2040** across key sectors of the economy than without a Plan including direct and indirect jobs\*

**\$150 million** Job Security Guarantee and **\$90 million** for two new training hubs



Queensland's energy system will remain **majority owned by the people of Queensland**

**\$285 million** to start building the SuperGrid and Powerlink to invest **\$365 million** for Central Qld Grid Reinforcement

**25 GW** wind and solar by 2035

**\$20 million** to supercharge future hydrogen hubs

**Over \$270 million to progress two world-class Pumped Hydros**

**\$200 million** Regional Economic Futures Fund

All publicly owned coal-fired power stations operating as clean energy hubs by 2035





Queensland's economy is **\$25.7 billion** bigger by 2040 than without a Plan\*



New household savings programs to lower electricity bills



Electricity emissions **50% lower by 2030** and 90% lower by 2035 on 2005 levels\*

Household retail bills **\$150 lower in 2032** than without a Plan\*



**\$4 million** to advance the bioenergy sector

**\$42 million** for integrating electric vehicles



**\$35 million** for a business savings and transformation program

Wholesale electricity prices **15% lower** on average to 2040 than without a Plan\*



Key sectors of the economy like **renewable hydrogen, manufacturing and new economy minerals** growing **faster** than without a Plan\*

**\$11.6 million** to grow local supply chains and support manufacturers



*\*Based on independent modelling*







# Clean energy economy

## Actions

### 1.1: Begin building the SuperGrid

Begin building Queensland's SuperGrid with \$285 million to develop new backbone transmission that will connect more renewable energy and storage across the state.

### 1.2: Develop two world-class Pumped Hydros

Over \$270 million committed to progress the Pioneer-Burdekin Pumped Hydro near Mackay, which could be the world's largest, and the Borumba Pumped Hydro. Together, these projects could deliver up to 7 GW of long duration storage for Queensland.

### 1.3: Invest in more batteries and storage

The Queensland Government will invest \$500 million as part of the boosted Queensland Renewable Energy and Hydrogen Jobs Fund (QREHJF) for government-backed grid-scale and community batteries. The Government will also develop an energy storage strategy for a reliable and resilient system.

### 1.4: Build more renewable energy and connect an additional 22 GW by 2035

Boost the QREHJF to \$4.5 billion with an injection of \$2.5 billion from coal royalties. Powerlink will also invest \$365 million for grid upgrades in Central Queensland, and the Government will prepare legislation and a long-term roadmap on Queensland Renewable Energy Zones (QREZ) to connect 22 GW of renewables by 2035.

### 1.5: Ensure reliability with low to no emissions gas

Invest in a new 200 MW hydrogen-ready gas peaking power station at Kogan Creek and the delivery of new low to no emissions gas, including hydrogen, for Queensland's SuperGrid.

### 1.6: Grow the future renewable hydrogen industry

Commit \$20 million to supercharge Queensland's renewable hydrogen hubs, review the *Queensland Hydrogen Industry Strategy* in 2023 and investigate a potential new renewable hydrogen gas target.

### 1.7: Deliver sustainable liquid fuels

Deliver a fuels strategy that sets out the vision for developing and using sustainable liquid fuels to support decarbonisation.

### 1.8: Switch to renewable energy with new targets

Prepare legislation to establish the Government's renewable energy targets in law including, 50 per cent renewable energy by 2030, 70 per cent by 2032 and 80 per cent by 2035. The Government will also work towards 100 per cent renewable electricity for all large government sites by 2030.

### 1.9: Advance Queensland's bioenergy future

Invest \$4 million to advance Queensland's bioenergy future by working with industry to investigate options for expanding generation from biomass waste streams and support innovation.

### 1.10: Establish a new technical board for expert advice

Establish a new Queensland Energy System Advisory Board to provide technical advice to Government on the energy transformation, including advice on how to accelerate progress and ensure affordability, reliability and security is maintained. This will include providing advice on updates to the *Queensland SuperGrid Infrastructure Blueprint* every two years from 2025.



## Empowered households and businesses

### Actions

#### ■ 2.1: Deliver a smarter grid that benefits all Queenslanders

Progress a range of initiatives to build a smarter grid and effectively integrate customer energy resources such as rooftop solar, home batteries and electric vehicles to ensure businesses and households can get the most out of their investments.

#### ■ 2.2: Deliver a new household program

The Government will establish a new program to support households to manage their energy use and save on electricity bills.

#### ■ 2.3: Support to reduce household bills

Support trusted non-government organisations with \$10 million in funding to improve access to energy efficiency advice and devices for hard to reach customer cohorts, like those experiencing vulnerability, to help them manage their energy use and reduce electricity bills.

#### ■ 2.4: Drive savings for small businesses

Establish a new \$35 million Queensland Business Energy Saving and Transformation (QBEST) program to help businesses save money on their electricity bills.

#### ■ 2.5: Integrate Queensland's zero emissions vehicles

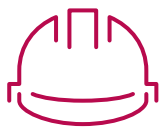
Invest \$42 million to deliver charging infrastructure and trials to support efficient integration of electric vehicles into the grid.

#### ■ 2.6: Enable savings for commercial buildings with Environmental Upgrade Agreements

Enable the use of Environmental Upgrade Agreements to deliver energy savings for commercial business owners and tenants, including ensuring the right regulatory environment is in place.

#### ■ 2.7: Ensure affordable electricity in regional and south east Queensland

Continue to implement the Uniform Tariff Policy to ensure all Queenslanders pay a similar price for electricity no matter where they live, for 2022–23 this represents \$638.5 million in the State Budget. The Government will also keep prices affordable in south east Queensland with a review of the regulatory market, new initiatives to reduce electricity bills and supporting more rooftop solar.



## Secure jobs and communities

### Actions

#### ■ 3.1: Invest to modernise Queensland's publicly owned coal-fired power stations for the future

Queensland's publicly owned coal-fired power stations will continue to play a vital role in the energy system, with Government reserving back-up capacity, repurposing critical infrastructure and reinvesting into these sites as clean energy hubs, supported by the \$4.5 billion QREHJF. All publicly owned coal-fired power stations will be operating as clean energy hubs by 2035.

#### ■ 3.2: Support workers with a Job Security Guarantee

A new \$150 million Job Security Guarantee, backed by a fund and an *Energy Workers' Charter*, will support workers in publicly owned coal-fired power stations by guaranteeing opportunities to continue their careers within these energy businesses or pursue other career pathways.

#### ■ 3.3: Prepare Queensland's workforce and regions for growth

Develop a *Future Energy Workforce Roadmap* during 2023 and invest \$90 million to establish two new regional transmission and training hubs. The Government will also establish a new Energy Industry Council and a Queensland Renewable Energy Jobs Advocate to provide advice on the future skills, opportunities and training pathways required.

#### ■ 3.4: Grow the renewable energy supply chain in Queensland

Invest \$11.6 million to help build capacity in the Queensland manufacturing sector, and deliver a grant program that supports up to 400 manufacturers to increase their competitiveness in a low carbon future.

#### ■ 3.5: Clean energy for remote and First Nations communities

Work to reduce emissions in remote and First Nations communities with a \$10 million Queensland Microgrid Pilot Fund to improve network resilience. The Government will also co-design a clean energy strategy with First Nations communities to achieve net zero electricity emissions in communities supported by Energy Queensland power stations.

#### ■ 3.6: Partner with industries and communities to maximise benefits from the energy transformation and drive regional economic opportunities

Deliver real and lasting benefits for regional communities through a new \$200 million *Regional Economic Futures Fund* to support economic and community development initiatives and a new *Regional Energy Transformation Partnerships Framework* with \$35 million for strategic planning and community engagement activities.





# Learn more about the Plan



**During 2023 the Queensland Government will be consulting on key initiatives in this Plan.**

**To learn more about the Queensland Energy and Jobs Plan and how you can get involved, check out the website:  
[qld.gov.au/energyandjobsplan](https://qld.gov.au/energyandjobsplan)**

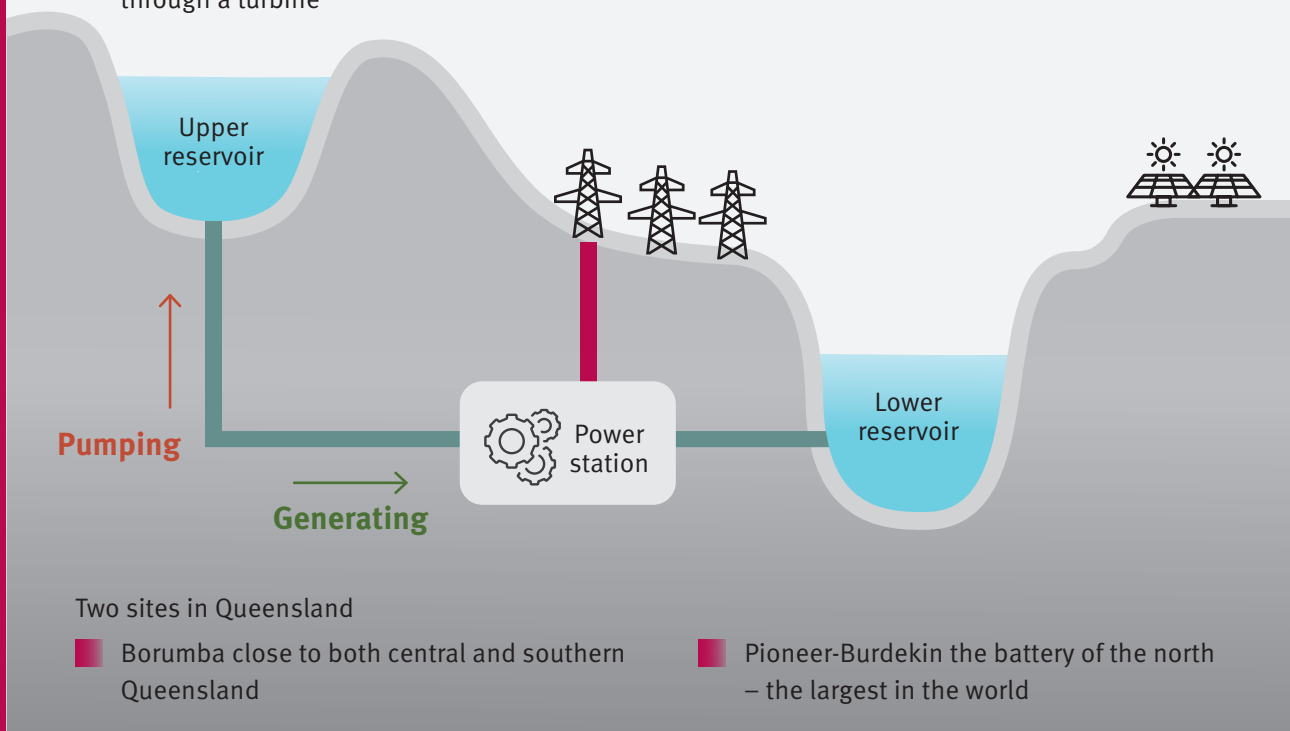
# How does Pumped Hydro work?

Pumped Hydro acts like a giant battery:

- it uses electricity from the grid or nearby renewables to pump water from a lower reservoir into an upper reservoir when energy prices are low
- when energy is needed, water is released from the upper reservoir into the lower reservoir, generating energy as it passes through a turbine

■ hydroelectricity can be generated almost immediately and at any time, so power can be fed into the grid when it is needed.

- ✓ **Drives reliable power for a clean energy economy**
- ✓ **Stores renewable energy like solar and wind**
- ✓ **Provides on demand power when we need it**



## **Megawatt (MW) and Gigawatt (GW):**

A measure of output from a generator (1000 MW = 1 GW this is enough to power around 300,000 homes).



**Demand:** The amount of power consumed at any time.



**Electricity grid:** Often referred to as 'the grid', this includes the transmission and distribution networks that carry electricity from generators to energy users.



**Dispatchable generation:** Sources of electricity that can be switched on and off and ramp their power output up and down based on market needs.



**Renewable energy:** Energy that comes from renewable sources, such as sun and wind.



**Hydrogen:** A clean, renewable fuel that can be used in transport, power supply and a range of industrial processes.

# QUEENSLAND ENERGY AND JOBS PLAN

Power for **generations**



[qld.gov.au/energyandjobsplan](https://qld.gov.au/energyandjobsplan)



13 QGOV (13 74 68)



@EnergyQld

2022



# Iama (Yam) Island

October 2022



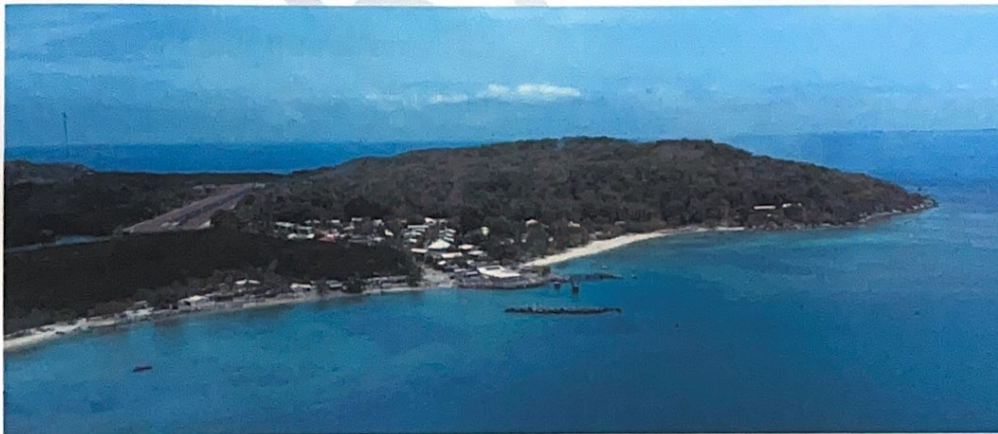
## Decarbonising Isolated Networks

Ergon Energy is on a journey to decarbonise the remote and isolated communities of Queensland. There are a number of options for reducing and removing reliance on diesel generation for energy, including solar PV, micro-wind generation, alternate fuel sources like bio-diesel, bio-gas and hydrogen. Each location is unique in its people, culture, geography, and energy needs, hence the need to develop multiple repeatable, adaptable and deployable solutions. To provide insight into a specific example, Iama (Yam) Island has been considered and a high-level solution and energy mix proposed.

## Iama (Yam) Island Community Profile

Iama Island is 100 km northeast of Thursday Island and is an island of the Bourke Isles.

The population, based on 2021 Census, is 275 and the language is Kulkalgau Ya.



Ergon Energy provides electricity to 100 connections on Iama Island from a centralised power station, with an installed capacity of 810 kW. The peak load is 291 kW and the average load is 207 kW.





## Decarbonisation Options

The main two energy sources considered for Iama are solar PV and micro-wind and have been paired appropriately with battery energy storage. Solar would be a combination of on community roofs accounting for  $\frac{1}{2}$  -  $\frac{1}{3}$  of the total generation and also a centralised solar farm. The indicative land required has been shown in the image below. Supporting the solar generation would be micro-wind generators, there is a potential location alongside the communication tower which could be suitable and while there are several turbines available to meet the requirements the market and technology would need to be well vetted to insure longevity and reliability.

### Customer Energy Resource

Roof-top Solar PV can contribute around 500 kW of the renewable energy based on an estimation of 40 residential roofs @ 5 kW and 10 commercial roofs @ 30 kW each, 50% of all connected houses and buildings.

### Centralised System

Renewable Rate	Solar PV Panels	Battery Energy Storage	Wind Generator
60%	1,000 kW	1,500 kWh	
60%	800 kW	800 kWh	100 kW
90%	1,500 kW	4,000 kWh	
90%	1,000 kW	3,000 kWh	200 kW

### Indicative Land Requirements



# TORRES STRAIT ISLAND REGIONAL COUNCIL

## AGENDA REPORT

STANDING COMMITTEE: Climate Change Adaptation and Environment Committee  
DATE: Tuesday 17<sup>th</sup> January 2023  
SUBJECT: Ghost Nets Innovative Solutions Fund  
AUTHOR: Jarrah Doran-Smith – Waste & Sustainability Engineer

### **Recommendation:**

That the Climate Change Adaptation and Environmental Committee supports the project, Torres Strait Marine Debris Task Force under the Ghost Nets Innovative Solutions Fund. The project aims to strengthen Council's capacity to manage ghost nets and marine debris throughout the Torres Strait region.

### **Purpose:**

The purpose of this report is to provide an update and overview to the Climate Change Adaptation and Environmental Committee in relation to the funding application for the Ghost Nets Innovative Solutions Fund.

### **Summary:**

The Australian Government has launched the Ghost Nets Innovative Solutions grants program to tackle the issue of ghost nets and plastic litter in the waters and beaches of northern Australia. In December 2022 Council's Engineering Department submitted a grant application valued at \$403,000 to establish a Marine Debris Task Force in the Torres Strait. The application consisted of a Project Management Plan, Risk Management Plan and Budget.

The project intends to appoint a Marine Debris Coordinator (MDC), who will be responsible for implementing a variety of activities aimed at removing ghost nets and marine debris from the marine environment throughout the Torres Strait while enhancing understanding of these materials. This project will work collaboratively with project partners and stakeholders, including Torres Strait influencer group Salty Monkeys, Torres Strait Regional Authority (TSRA) Land and Sea Management Unit, Tangaroa Blue Foundation and Meriba Ged Ngapun Mab. All stakeholders have been engaged and willingly provided letters of support for the project.

Council understands the impact that ghost nets and marine debris have on our environment and the risk they pose for navigational safety. Council aims to build on our capacity to manage these waste streams within the community and throughout the region. The MDC position alongside the Salty Monkeys will work collaboratively with key stakeholders, including TSIRC communities, Native Title Prescribed Body Corporate members (RNTFBC), government and non-government organisations, internal Councillors, and committees, to develop and deliver remote island clean-up projects, community-based marine clean-ups and ongoing management of marine debris.

The project intends to work with communities to create a safer, more sustainable future for the people and culture of the Torres Strait.

## Project Scope

This project will be responsible for variety of activities, including employment and training of a Marine Debris Coordinator position, the development and implementation of a Marine Monitoring and Evaluation Program, enhancing community understanding of marine debris and ghost nets, coordinating remote island and community-based clean-up events. The aim is for Council to take a leading role in improving stakeholder relationship development and clean-up the marine environment around the communities.

Some of the key activities of this project include:

- a) Implementation of credible, transparent and target based community engagement activities
- b) Organise, facilitate, and mentor activities/events to manage these waste streams and improve understanding of marine debris throughout community, including through local indigenous art projects and school engagement
- c) Engage relevant stakeholders to equip TSIRC with the best available science and monitoring tools to support management decisions
- d) Monitor and evaluate ghost net and marine debris deposits throughout the project areas
- e) Organise coordinate and promote remote island and community-based clean-up events and activities for 8x remote island clean-ups and 8x community-based clean-ups (TBC)
- f) Implement recommendations from the Torres Strait Regional Authority (TSRA) Land and Sea Management Unit
- g) Collect and manage data of the ghost nets and marine debris according to Tangaroa Blue data collection methodologies
- h) Sort, separate, biosecurity clear and remove marine debris from the island communities for further disposal/recycling in conjunction with key stakeholders
- i) Other activities as required

## Conclusion

It is recommended that the that the Climate Change Adaptation and Environmental Committee notes the report and support the content to be referred to full Council if funding application is successful.

## Attachments

- Grant Application



Author:

Jarrah Doran-Smith

Waste & Sustainability Engineer



Approved:

David Baldwin

Executive Director – Engineering Services

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

### Information and Declarations

\* indicates a required field

#### About the Ghost Nets Innovative Solutions Grant Program

The Ghost Nets Innovative Solutions grants program opened for applications on 10 October 2022.

Up to \$3 million (GST excl) is available in this open, competitive grants program. This will fund projects to better detect, collect or dispose of ghost nets and other harmful forms of marine debris in northern Australian waters and coastal areas; and to raise public awareness of the issue.

Applications are being sought from a broad range of eligible organisations, such as Indigenous groups, research organisations, technology providers, community and environmental NGOs, businesses, local government, industry groups and more.

Grant amounts of between \$30,000 and \$400,000 (exc. GST) will be available for projects of up to 2 years duration, from March 2023.

The grants program is designed to support innovative and inspiring projects that will help address the ghost nets and marine debris problem across northern Australia.

The Ghost Nets Innovative Solutions grant program is part of the broader \$14.8 million Ghost Nets Initiative, aimed at tackling the issue of ghost nets and plastic marine debris in the waters and beaches of northern Australia, with a focus on the Gulf of Carpentaria. Further information can be found at [parksaustralia.gov.au/ghost-nets-initiative](https://parksaustralia.gov.au/ghost-nets-initiative).

#### Privacy Notice

We treat your personal information according to the [Privacy Act 1988](#) and the [Australian Privacy Principles](#). This includes letting you know:

- what personal information we collect
- why we collect your personal information
- who we give your personal information to.

Your personal information can only be disclosed to someone else for the primary purpose for which it was collected, unless an exemption applies.

The Director of National Parks may also use and disclose information about grant applicants and grant recipients under this grant opportunity in any other Australian Government business or function. This includes disclosing grant information on GrantConnect as required for reporting purposes and giving information to the Australian Taxation Office for compliance purposes.

We may share the information you give us with other Commonwealth entities for purposes including government administration, research or service delivery, according to Australian laws.

As part of your application, you must declare your ability to comply with the *Privacy Act 1988* and the Australian Privacy Principles and impose the same privacy obligations on officers, employees, agents and subcontractors that you engage to assist with the activity,



# Ghost Nets Innovative Solutions Grant Application

## Form Preview

in respect of personal information you collect, use, store, or disclose in connection with the activity. Accordingly, you must not do anything, which, if done by the Director of National Parks, would breach an Australian Privacy Principle as defined in the Act.

### Declarations

**Please confirm that you have read and understood the Privacy Notice above and declare your ability to comply with the statements regarding your ability to comply. \***

☐ I confirm

**Please confirm that you do not have any outstanding reports, acquittals (without due cause) or serious breaches in relation to any Commonwealth funding. \***

☐ I confirm

**Please confirm that you have read and understood the Grant Guidelines, the sample grant agreement and any published Questions and Answers and any addenda. \***

☐ I confirm

See the Grant Opportunity [here](#).

**Are there any perceived or existing conflicts of interest you need to declare as part of your application? \***

☐ Yes

☐ No

**Please detail the nature of this conflict of interest. \***

### Applicant Details

\* indicates a required field

#### Organisation Details

**Organisation name \***

Organisation Name

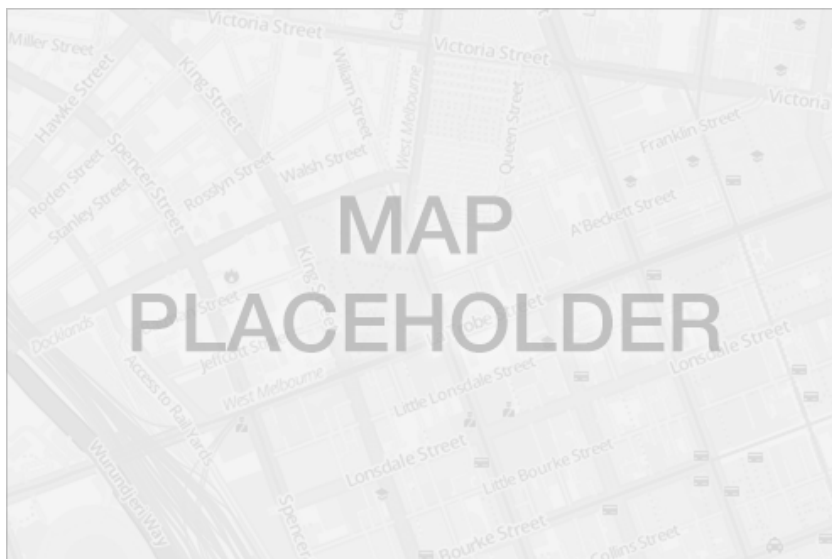
Make sure you provide the same name that is listed in official documentation such as that with the ABR, ACNC or ATO.

**Organisation primary address \***

Address

# Ghost Nets Innovative Solutions Grant Application

## Form Preview



### Organisation postal address \*

Address

### Organisation primary phone number \*

Must be an Australian phone number.

### Organisation email address \*

Must be an email address.

### Organisation website

Must be a URL.

### ABN \*

The ABN provided will be used to look up the following information. Click Lookup above to check that you have entered the ABN correctly.

Information from the Australian Business Register	
ABN	
Entity name	
ABN status	
Entity type	
Goods & Services Tax (GST)	

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

DGR Endorsed

ATO Charity Type

[More information](#)

ACNC Registration

Tax Concessions

Main business location

### What type of entity are you? \*

- ☐ a company
- ☐ a company incorporated by guarantee
- ☐ an incorporated trustee on behalf of a trust
- ☐ an incorporated association
- ☐ a joint (consortia) application with a lead organisation
- ☐ a registered charity or not-for-profit organisation
- ☐ an Australian local government body
- ☐ an Indigenous government agency or body that is established under Commonwealth, state or territory legislation
- ☐ a university established under Commonwealth, state or territory legislation
- ☐ a research organisation or body that is established under state or territory legislation
- ☐ an Aboriginal and/or Torres Strait Islander Corporation registered under the Corporations (Aboriginal and /or Torres Strait Islander) Act 2006

Please choose the option that best applies to your organisation.

### Bank details

#### Bank Account \*

Account Name

BSB Number

Account Number

Must be a valid Australian bank account format.

Please provide a recent bank statement of the account you would use to receive the grant funding if you are successful. You do not have to show transaction details, however, the statement must:

- Be for a business account in the name of the legal applicant entity
- Be a statement on financial institution documentation
- Not be an online transaction list
- Clearly show the name, account number and BSB

#### Upload bank statement \*

Attach a file:

Maximum file size 25MB, recommended size no bigger than 5MB.

### Primary Contact Details

#### Primary contact \*



# Ghost Nets Innovative Solutions Grant Application

## Form Preview

Title First Name Last Name

This is the person we will correspond with about this grant.

**Position held in organisation \***

e.g., Manager, Board Member or Fundraising Coordinator.

**Primary contact primary phone number \***

Must be an Australian phone number.

**Primary contact office phone number**

Must be an Australian phone number.

**Primary contact email address \***

This is the address we will use to correspond with you about this grant.

## Consortium Details

\* indicates a required field

Please identify all other members of the proposed consortium, **not** including the lead organisation. Please include only one member per row. Add more rows if you want to list additional members.

**Organisation \***

Organisation Name

**ABN \***

The ABN provided will be used to look up the following information. Click Lookup above to check that you have entered the ABN correctly.

Information from the Australian Business Register	
ABN	
Entity name	
ABN status	
Entity type	
Goods & Services Tax (GST)	
DGR Endorsed	
ATO Charity Type	<a href="#">More information</a>

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

ACNC Registration  
Tax Concessions  
Main business location

Must be an ABN.

**You must have a formal consortium arrangement in place with all parties prior to execution of the agreement. Please provide satisfactory evidence of this arrangement. \***

Attach a file:

Maximum file size 25MB, recommended size no bigger than 5MB.

## Trust Details

**\* indicates a required field**

**Name \***

Organisation Name

**ABN \***

The ABN provided will be used to look up the following information. Click Lookup above to check that you have entered the ABN correctly.

Information from the Australian Business Register	
ABN	
Entity name	
ABN status	
Entity type	
Goods & Services Tax (GST)	
DGR Endorsed	
ATO Charity Type	<a href="#">More information</a>
ACNC Registration	
Tax Concessions	
Main business location	

Must be an ABN.

**Please upload the signed Trust Deed and any subsequent variations. \***

Attach a file:

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

### Project Details

\* indicates a required field

#### Project title \*

Word count:

Must be no more than 15 words.

#### Provide a brief description of your project. \*

Word count:

Must be no more than 150 words.

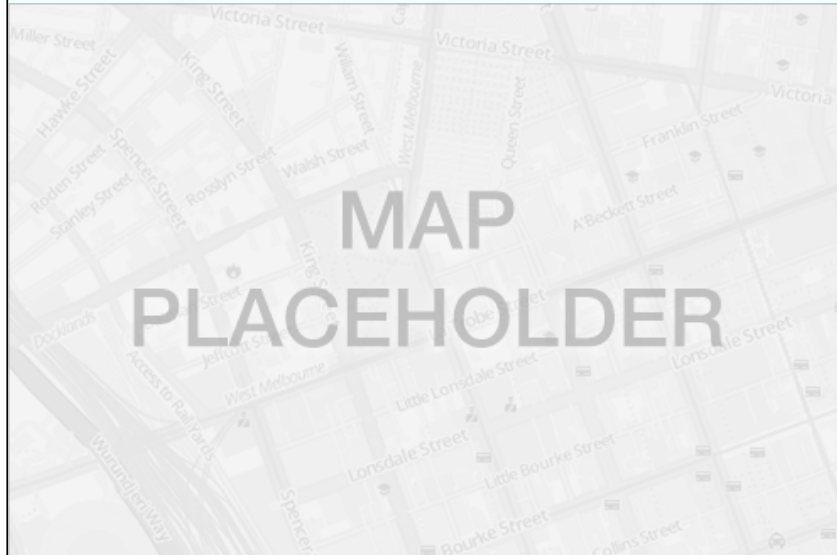
Please provide details of the location(s) in which your project will take place. You may enter the address, or drop a pin where the project will take place.

Your project can include activities at different locations, as long as they relate to achieving the grant objectives and contribute to solving the ghost net and marine debris problem within the northern Australian region identified in the guidelines.

You can add more locations if your project is taking place in multiple distinct areas by clicking 'Add more'.

#### Project location

Any, but at least one field is required. Country must be Australia

	
<input type="text"/>	<input type="text"/>

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

Please note that if you are successful, we expect you will be able to commence your grant activity around March 2023 and grant agreements will be in place for 2 years.

Anticipated start date \*

Please note that if you are successful, we expect you will be able to commence your grant activity around March 2023 and grant agreements will be in place for 2 years.

Anticipated end date \*

Must be a date.

**Does your project involve or benefit Indigenous communities? \***

☐ Yes

☐ No

## Assessment Criterion 1: Benefits and beneficiaries (economic, environmental, social and cultural)

\* indicates a required field

This criterion relates to the objectives of the Ghost Nets Innovative Solutions grant program. The program objectives are to:

- Provide a direct environmental benefit by increasing the capacity of communities to deal with ghost nets and marine debris in remote parts of northern Australia, through:
  - Fostering ongoing new collaborative partnerships; and
  - Seeding innovative new ideas
- Increase public awareness of the ghost nets and marine debris issue through:
  - Supporting education and awareness-raising activities
- Bolster new employment and economic opportunities in regional and remote communities through ghost nets and marine debris projects that will:
- Initiate the establishment of long-term employment generating activities in the community
- Provide wider economic opportunities to the local community, for example local suppliers and services that contribute to the project's activities.

In your response to this criterion, you should include information on:

- How the project would create benefits that meet the program objectives
- The geographic reach of the activity (please see also 'Project Location' on page 5)
- Benefits to regional and/or remote communities, including the relevant Traditional Owners groups and project participants
- The involvement of Aboriginal and /or Torres Strait Islander peoples
- How long the benefits of the project are expected to last

When addressing this criterion, stronger applications will:

- Clearly articulate an understanding of the Ghost Nets Initiative
- Identify a specific opportunity or challenge relating to the problem of ghost nets and marine debris within northern Australian waters/coastal areas
- Outline the proposed solution(s) (grant activities) clearly, and identify their expected impact, value or importance

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

- *Identify the clear, specific and achievable project outcomes that contribute to the delivery of Ghost Nets Initiative*
- *Explain what benefits are expected to project participants and/or local communities*
- *Identify the relevant Traditional Owners groups, and explain anticipated benefits to them*
- *Explain how Aboriginal and/or Torres Strait Islander people will be involved*

### Project opportunity/challenges

**What specific opportunity or challenge related to marine debris/ghost nets does your project aim to address? \***

Word count:

Must be no more than 150 words.

### Project benefits and beneficiaries

**Please explain the environmental, economic, social and/or cultural benefits expected from this project, including how long these are expected to last. \***

Word count:

Must be no more than 1000 words.

**Please outline who the beneficiaries of this project are. \***

Word count:

Must be no more than 200 words.

*You have indicated that your project involves or benefits Indigenous communities. Please ensure you specify which Traditional Owner groups are relevant to your project and the specific benefits to the identified Indigenous communities in your responses above.*

### Project outcomes

**Please detail your expected project outcomes in the next table. Project outcomes should be clear, specific and achievable, and contribute to the delivery of the Ghost Nets Initiative.**

Outcomes are the changes you expect to occur for the beneficiaries of your project. For example:

- Cleaner coastal areas
- Increase in local understanding of marine debris issues

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

- Greater employment opportunities

Please include only one outcome per row. Add more rows if you want to list additional outcomes.

Your outcome	Alignment with Ghost Nets Initiative objectives	Please explain how your intended outcome contributes to the Ghost Nets Initiative objectives	Notes
What changes do you expect will occur as a result of your project (e.g. Cleaner coastal areas)? Please be brief. Please include only one specific change per row.	Which of our objectives will this outcome contribute to? If more than one is relevant, please pick the most relevant.		

## Project Data

**Does your project involve the collection of scientific data (or other types of quality-controlled data) as a key part of the project activities (for example, remote sensing data or marine debris samples)? \***

☐ Yes ☐ No

If your project involves marine debris clean-up activities, we encourage you to incorporate a survey to collect data on the types, abundance and distribution of marine debris you encounter.

## Data collection and management protocols

**Please outline your protocol for the collection and management of that data. \***

Word count:

Must be no more than 200 words.

The protocol must outline the methodology used for the collection, and how you will ensure that all quality-controlled data is treated appropriately for sensitivities (for example, personal data, culturally or ecologically sensitive data, for commercial-in-confidence or national security reasons, etc.)

## Data sharing

**Please detail the type of data you will be collecting, and how the data will be shared and made available to the Director of National Parks.**

You should ensure that all quality-controlled data is:

- as openly licenced as possible (e.g. Creative Commons Attribution 4.0); and
- published online with free (without charge) and ongoing public access through at least one national repository, and
- published online using open formats, protocols, and standards.

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

Where data is being collected and shared on marine debris abundance, type and/or spatial distribution, you must submit marine debris data to the National Plastic Pollution Portal project team at the Department of Climate Change, Energy, the Environment and Water (further details on the submission process will be provided to successful applicants, where relevant).

### Type of data

Please detail specific type of data.

### Data sharing requirements

Please detail name of repository to be included on or licence data to be made available under.

## Assessment Criterion 2: Quality (of the applicant and the project )

\* indicates a required field

This criterion relates to your capacity to deliver the project. In your response to this criterion, you should include information on:

- Your experience, skills and expertise in relationship to the nature of the activity
- Skills, experience and expertise of the key personnel
- Scale of the project and capacity of organisation to deliver
- Governance, financial and administration support for the project
- Your understanding of the key issues the program seeks to address (see also 'Project Opportunity/Challenges' on page 6)
- Capacity to identify and appropriately risk manage project challenges

*When addressing this criterion, stronger applications will:*

- *Demonstrate your experience with similar projects*
- *Identify procedures and processes in place to appropriately manage the project*
- *Outline the level of expertise of proposed staff, and their specific involvement*
- *Include realistic timeframes*
- *Contain a thorough assessment of risks including attaching a Risk Assessment Matrix and/or Workplace Health and Safety Plan where appropriate*
- *Indicate an appropriate technology readiness level, and provide supporting justification (if applicable)*
- *Involve project team members with experience engaging with Indigenous communities (if applicable)*

## Applicant capacity

### What is your organisation's annual revenue? \*

- ☐ Less than \$50,000
- ☐ \$50,000 or more, but less than \$250,000
- ☐ \$250,000 or more, but less than \$1 million
- ☐ \$1 million or more, but less than \$10 million
- ☐ \$10 million or more, but less than \$100 million
- ☐ \$100 million or more

Your revenue includes grants, donations, and other fundraising activities, fees for services, sale of goods, interest, royalties and in-kind donations that have been included in your accounts as 'revenue'.

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

The Australian Charities and Not-for-profits Commission (ACNC) has more detailed information here:  
<https://www.acnc.gov.au/tools/topic-guides/revenue>

### **Please attach a copy of your most recent Annual Report.**

If you do not produce an annual report, please provide us with your most recent financial statements. This may include a Profit and Loss Statement/Statement of Financial Performance and a Balance Sheet/Statement of Financial Position.

### **Upload files \***

Attach a file:

Maximum file size 25MB, recommended size no bigger than 5MB.

### **Please outline your experience, skills and expertise in relationship to the delivery of the project, ensuring you address the scale of the project. \***

Word count:

Must be no more than 500 words.

Include information about any past work on similar projects that may demonstrate your organisation's capacity to undertake this work. Provide links to further explanatory material if available/relevant.

### **Please outline the governance, financial and administration support for the project. \***

Word count:

Must be no more than 500 words.

*You have indicated that your project involves or benefits Indigenous communities.*

### **Please describe your previous experience in engaging with Traditional Owners (including entities with responsibility for representing Traditional Owners). \***

Word count:

Must be no more than 500 words.

## Key project personnel

### **Please provide information on the key personnel who will be responsible for the delivery of the project, including their qualifications and experience.**

Please include only one person per row. Add more rows if you want to list additional personnel.

If the project requires recruitment of a project officer, please provide information on how that recruitment will occur and what experience and qualifications the successful applicant would be expected to have in the 'Notes' column.



# Ghost Nets Innovative Solutions Grant Application

## Form Preview

Please include details of subcontractors in the relevant table under Assessment Criterion 3.

Name	Organisation	Role	Experience	Notes
One per row. Add more rows if you want to list additional key project personnel.				Please provide any further details.

### Project milestones

**Please outline the major steps / stages (i.e. milestones) involved in delivering your project between its commencement (in March 2023) and completion (within 2 years from the start date).**

You should outline the main project activities and identify who will be responsible for those activities being delivered. Outline when those activities, and other milestones in your project, will be completed.

Please include only one milestone per row. Add more rows if you want to list additional milestones.

You may consider what your public deliverables are and what potential media or outreach activities may be conducted at those milestones.

Activities cannot commence until after your grant agreement is executed which is intended to occur in March 2023. Activities must be completed by March 2025 (or within 2 years from the date of commencement of the grant agreement). Ensure you consider contingencies so that your activity can be completed in the timeframes required. You do not need to include reporting obligations in your milestones.

Milestone description	Start date	End date	Key parties and personnel responsible for activity	Potential media or outreach activities
One per row. Add more rows if you want to list additional milestones.	Must be a date and between 1/3/2023 and 31/3/2025.	Must be a date and between 1/3/2023 and 31/3/2025.		

### New technology

**Does your project involve new technology that is under development? \***

☐ Yes

☐ No

**Please specify the relevant Technology Readiness Level (TRL) that currently applies. \***

Must be a number.

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

Further information on the TRL can be found [here](#). Note - a Technology Readiness Level of less than 7 will be considered high risk and less likely to be recommended for funding.

**Please provide an explanation of how you assessed this level. \***

--

Word count:

Must be no more than 200 words.

## Risks and dependencies

Can you think of anything that would stop you achieving the objectives of your project? How will you address these risks or uncertainties?

Some examples of risks or dependencies are:

- Any challenges posed by the remoteness of the geographic location and lack of available infrastructure
- Risks surrounding the use of innovative/new technologies or processes
- Any challenges posed by COVID

Please include any Workplace Health and Safety related risks in the Workplace Health and Safety section below.

Please include only one risk or dependency per row. Add more rows if you want to list additional risks or dependencies.

Please note that any risks associated with third parties or subcontractors should be outlined here.

Risk or dependency	How the risk or dependency will be managed

If you wish to include a Risk Matrix as part of your application, please upload this below.

### Upload Risk Matrix:

Attach a file:

--

Maximum file size 25MB, recommended size no bigger than 5MB.

## Workplace Health and Safety

Outline the measures you will employ to ensure that this project is undertaken safely and complies with relevant Work, Health and Safety legislation.

Please include only one measure per row. Add more rows if you want to list additional measures.

Workplace health and safety measure

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

If you wish to include a Workplace Health and Safety Plan as part of your application, please upload this below.

### Upload Workplace Health and Safety Plan

Attach a file:

Maximum file size 25MB, recommended size no bigger than 5MB.

## Assessment Criterion 3: Collaborations

\* indicates a required field

This criterion relates to your capacity to engage and/or collaborate with other project partners, communities, Indigenous groups, and other stakeholders. In your response to this criterion, you should include information on:

- Community support and engagement (particularly with Traditional Owners)
- Financial and project partners (see also 'Budget' on page 9).
- Level of confirmed or anticipated cash and/or in-kind contribution (see also 'Budget' on page 9).
- Level of collaboration and consultation (particularly with Traditional Owners)
- Likely ongoing benefits of partnerships

When addressing this criterion, stronger applications will:

- *Demonstrate a broader community benefit from funding this project*
- *Engage external partners*
- *Include co-contributors*
- *For projects that involve Indigenous communities, include a letter of support from an entity or entities with responsibility for representing Traditional Owners for the location of the proposed project*
- *Outline a high level of collaboration or consultation undertaken to date, or planned to be undertaken as part of the project*
- *Outline a high level of cash and/or in-kind contributions that will be provided*

## Community support and collaboration

**What evidence do you have that this project/program has community support? \***

Word count:

Must be no more than 500 words.

**Please upload letters of support (if available/relevant)**

Attach a file:

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

A maximum of 5 files can be attached. Maximum file size 25MB, recommended size no bigger than 5MB.

*You have indicated that your project involves or benefits Indigenous communities. All projects involving Indigenous communities should include a letter of support from an entity or entities with responsibility for representing Traditional Owners for the location of your proposed project. The entity could provide guidance on the most appropriate person/organisation to participate in the project. The entity could include:*

- a Registered Native Title Body Corporate
- a Native Title Representative Body (NTRB) or a Native Title Service Provider (NTSP)
- Aboriginal land councils or corporations established under relevant legislation.

**Please outline the collaboration or consultation undertaken already, or that will occur as part of the delivery of this project. \***

Word count:

Must be no more than 500 words.

*You have indicated that your project involves or benefits Indigenous communities. Please ensure you specify the collaboration or consultation with the identified Indigenous communities in your response above.*

### Project partners

**Will any partner(s) be engaged as part of this project? \***

☐ Yes

☐ No

**Please detail the partner organisations that will be involved in the conduct of the project and include the engagement strategy you have to ensure the success of the project.**

Please include only one partner per row. Add more rows if you want to list additional partners.

Organisation	Role	Engagement Strategy	Ongoing benefit of partnership
One per row. Add more rows if you want to list additional partners.			

### Subcontractors

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

**Will any subcontractor(s) be engaged as part of this project? \***

☐ Yes

☐ No

**Please detail any subcontractors that you will seek to engage as part of this project.**

If you have not yet finalised the details of the subcontractor(s) you will seek to engage, please detail the expected 'Involvement' of the subcontractor(s) and mark all other fields as 'NA'.

Please include only one subcontractor per row. Add more rows if you want to list additional subcontractors.

Name	Organisation	Role	Experience	Involvement
				How will the subcontractor be involved in the delivery of the project?

## Stakeholders

**Please detail all other stakeholders interested or impacted by your project. Explain their interest or impact and explain the engagement strategy you will have with that stakeholder.**

You can keep this high level (e.g. quarterly meetings / regular email communication) rather than identifying each individual meeting or communication.

You do not need to include project partners identified in the section above.

Please include only one stakeholder per row. Add more rows if you want to list additional stakeholders.

Stakeholder	Interest or impact	Engagement strategy

## Assessment Criterion 4: Financial viability and sustainability

\* indicates a required field

This criterion relates to your ability to deliver a financially viable and sustainable project over its lifecycle. In your response to this criterion, you should include information on:

- The need for funding support
- The type of activity in relation to the proposed grant amount
- The quality and viability of the project plan and timeline (see also 'Project milestones' on page 7)
- That the budget is realistic and reasonable
- Whether the project represents efficient, effective, economic and ethical use of funds
- The applicant's funding history



# Ghost Nets Innovative Solutions Grant Application

## Form Preview

- Expected impact and public benefit of the project (see also 'Project outcomes' on page 6)

*When addressing this criterion, stronger applications will:*

- *Outline what proportion of the funding request is for administrative costs*
- *Include project budgets that are realistic and reasonable*
- *Demonstrate viable project plans and timelines*
- *Demonstrate that you have sought best value*
- *Outline whether the project is likely to result in a commercial enterprise and/or provide ongoing benefits to the community*

**Please provide an explanation of your need for funding support as part of the Ghost Nets Innovative Solutions grants program. \***

Word count:

Must be no more than 500 words.

**Please explain how the 'Budget' provided below is realistic and reasonable. This should include an explanation of the financial viability of the project, and any expected public financial benefits that will be created. \***

Word count:

Must be no more than 750 words.

## Information on milestone payments

Please note that, if successful, payments will be made on the completion of Milestones listed below, according to the value of the amount approved under the grant. This may be subject to change and will be according to an agreed schedule set out in the grant agreement.

### **Milestone**

#### **When**

#### **Amount**

Milestone 1

On execution of the Grant Agreement

60% of amount approved

Milestone 2

On submission of initial Progress Report\*, six months after execution of the Grant Agreement

30% of amount approved

Milestone 3

On submission of Final Report, at completion of project\*\*

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

10% of amount approved

\* Projects of more than 1 year will have additional progress reports, with no associated Milestone payment. \*\* For projects with a duration of six months or less, Milestone 2 and 3 payments will be made concurrently at the completion of the project.

### Expenditure

**Please include all expenditure items (including the amount requested and any GST attracted) that you are seeking to fund under the Ghost Nets Innovative Solutions grants program.**

Please note, these items must be eligible under the grant as according to the guidelines.

Expenditure Item	Type	Amount (ex. GST)	GST	Amount (inc. GST)	Notes
		Must be a whole dollar amount (no cents).	If the 'Expenditure Item' does not attract GST, enter \$0 value. Must be a whole dollar amount (no cents).	Must be a whole dollar amount (no cents).	
		\$	\$	\$	
		\$	\$	\$	
		\$	\$	\$	
		\$	\$	\$	

### Supporting documentation

**Are any of the items listed in the 'Expenditure' table above \$5,000 (ex. GST)? \***

☐ Yes ☐ No

**Please explain how the items above \$5,000 (ex. GST) listed in the 'Expenditure' table are essential to achieving the objectives of the project. \***

Word count:

Must be no more than 500 words.

For costs toward capital works, assets and other permanent infrastructure, demonstrate that failure to fund these items would have a significant and/or detrimental impact on project delivery and that they will provide value with money. You must make a clear case as to how the assets would continue to contribute to the grant program objectives beyond the life of your grant project activities.

**Are any of the items above \$5,000 (ex. GST) listed in the 'Expenditure' table considered an Asset. \***

☐ Yes ☐ No

An 'Asset' is considered tangible property purchased or leased with a value of \$5000 or more.

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

**Please attach quotes for any Assets. \***

Attach a file:

Maximum file size 25MB, recommended size no bigger than 5MB.

**Total Amount Requested (ex. GST) \***

What is the total financial support **excluding** GST that you are requesting in this application? This amount is calculated from the "Amount (ex. GST)" column in the 'Expenditure' table and must be between \$30,000 and \$400,000 as according to the guidelines.

**Total Amount Requested (inc. GST) \***

What is the total financial support you are requesting in this application?

What is the total financial support **including** GST that you are requesting in this application? This amount is calculated from the "Amount (inc. GST)" column in the 'Expenditure' table.

**Total Project Cost (inc. GST) \***

What is the total cost of your project **including** GST, including items that will not be funded under the Ghost Nets Innovative Solutions grants program.

## Other Funding

**Please outline details of your funding co-contribution and/or any other funding that you are seeking as part of the project, whether it has been confirmed or not. All amounts should be GST inclusive.**

Description Type	Contributing Party	Status	Anticipated date	Amount (inc. GST)	Notes
			Can be after the commencement of project activities. Must be a date.	Must be a whole dollar amount (no cents).	
				\$	
				\$	
				\$	

## Other inputs

**Please include any non-financial inputs you need in order to successfully carry out this project.**

Non-financial inputs could include staff/volunteers time/expertise, equipment, facilities, pro bono or in-kind contributions, advocacy, and other types of support.

Input Description	Contributing Party	Status	Anticipated Date	Notes
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# Ghost Nets Innovative Solutions Grant Application

## Form Preview

			Can be after the commencement of project activities. Must be a date.	

## Monitoring and Evaluation

### Metrics

**Please include all the metrics you are seeking to collect and share as part of the project, including a target (where relevant) and the collection method.**

Metrics may refer to outcome indicators (i.e. how you will know if your project has achieved its outcomes) and/or activities (e.g. the number of information sessions run).

Below is an example of how to complete the table:

- Metric: Number of community members attending ghost net art workshops
- Target: 50
- Collection method: Participant numbers counted at each workshop

Please include only one metric per row. Add more rows if you want to list additional metrics.

Metric	Target (if relevant)	Collection method
	Identify a target for the metric you have chosen - an estimated total for your project. Must be a number.	How will you collect and verify the data? E.g. survey, headcount, observation/estimation, externally verified sources (e.g. government or public datasets).

### Qualitative evidence

**Please detail any qualitative evidence you're seeking to collect as part of your measurement towards your project outcomes (e.g. how the community think awareness of the issue has changed.)**

Qualitative evidence is a descriptive rather than numeric form of evidence designed to indicate whether or not progress towards an outcome is occurring.

Examples of qualitative data sources include interviews, testimonials, focus group transcripts/summaries, social media posts, media appearances/mentions, and artistic or multimedia depictions such as photographs, videos and audio/podcasts.

Please include only one type of qualitative evidence and explanation per row. Add more rows if you want to list additional types of qualitative evidence.

Qualitative Evidence	Explanatory notes
	Add notes if you need to provide more context.

# Ghost Nets Innovative Solutions Grant Application

## Form Preview

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## Certification and Feedback

\* indicates a required field

### Certification

This section must be completed by an appropriately authorised person on behalf of the applicant organisation (may be different to the contact person listed earlier in this application form).

**I certify that to the best of my knowledge the statements made within this application are true and correct, and I understand that if the applicant is approved for this grant, we will be required to accept the terms and conditions of the grant as outlined in the letter of approval.**

**I agree \***

☐ Yes

**Name of authorised person \***

Title

First Name

Last Name

**Position \***

Position held in applicant organisation (e.g. CEO, Treasurer)

**Contact phone number \***

Must be an Australian phone number.

We may contact you to verify that this application is authorised by the applicant organisation

**Contact email \***

Must be an email address.

**Date \***

Must be a date

### Applicant Feedback

You are nearing the end of the application process. Before you review your application and click the **SUBMIT** button please take a few moments to provide some feedback.

**Please indicate how you found the online application process. \***

☐ Very easy

☐ Easy

☐ Neutral

☐ Difficult

☐ Very difficult

**How many minutes in total did it take you to complete this application? \***

Estimate in minutes i.e. 1 hour = 60



# Ghost Nets Innovative Solutions Grant Application

## Form Preview

**Please provide us with your suggestions about any improvements and/or additions to the application process/form that you think we need to consider.**



# TORRES STRAIT ISLAND REGIONAL COUNCIL

## INFORMATION REPORT

STANDING COMMITTEE: Climate Change Adaptation and Environment Committee  
DATE: Tuesday 17<sup>th</sup> January 2023  
SUBJECT: Metal Waste Legacy Stockpile Clean-Up Project Continuation  
AUTHOR: Jarrah Doran-Smith – Waste & Sustainability Engineer

### Recommendation:

It is recommended that the that the Climate Change Adaptation and Environmental Committee notes the report and support the content to be referred to full Council at the January 2023 Council Ordinary Meeting.

### Purpose:

The purpose of this report is to provide an update and overview to the Climate Change Adaptation and Environmental Committee in relation to the Metal Waste Legacy Stockpile Clean-Up Project Continuation. This report will inform the approach for undertaking metal waste clean-up activities in the remaining five communities to ensure financial control under the current budget.

### Background

In August 2021, Council resolved to engage contractors, McMahon Services, to undertake the TSIRC Metal Waste Legacy Stockpile Clean-Up project. McMahon Services have engaged Crystal Ailan and Sea Swift to assist with the project. ARO Industries were also engaged by Council to assist Council with contract/project management for the duration of the project.

In October 2022, Council received additional \$1.75M in funding from the Department of Environment and Science (DES) to continue the project and complete metal waste clean-up activities on the remaining five communities, including Mer, Erub, Ugar, Saibai and Boigu.

### Summary:

This report intends to supplement information that was disseminated the COM in October. Regarding additional funding provided by DES. The additional funding will ensure that the remaining five communities will have metal waste collected and removed.

The Metal Waste Legacy Stockpile Clean-Up project has operated across the Torres Strait region from March to December 2022. During this period metal waste has been located, collected, consolidated and processed from ten communities, including Hammond, Kubin, St. Pauls, Badu, Poruma, Iama, Masig, Warraber, Dauan and Mabuiag. During this period there has been more than 8,000 local employment hours and 2,500t of scrap metal collected. Metal waste collected includes, building waste, white goods, wreck vehicles and heavy plant.

In December, works were put on hold until at least March 2023 to allow for equipment maintenance and to reduce potential delays over the worst part of the monsoon season.

### Continuation Methodology

Works are proposed to be undertaken in a manner that is similar to those for the main works completed as part of the main contract. By mobilising the same plant previously used, McMahon Services has the capability of removing the metal waste from the community. The

limitation that McMahon Services will impose on these works is a one (1) week time limit for the completion of each community. It is noted that this is based on a 5-week program. Give and take of timing between communities is possible however this would need to be decided prior to any works commencing (ie. Ugar may only need 3 days, hence 4 additional days could be spent at Saibai or Mer).

The intention is that TSIRC will nominate priority waste items to be removed within the 1-week timeframe set as part of the works allowing for key elements and notable items to be removed.

McMahons will also be returning to Masig and Warraber communities to remove materials that were unable to be collected during their initial visitation.

### Ugar Methodology

Ugar Island poses some significant challenges due to the restrictive nature of access to this community. Barges used at Ugar must be a landing craft, not the typical tug and dumb barge McMahon have been using for the remainder of the project. This is an increased hire cost however will allow McMahon to have the maximum allowable time available to access the barge ramp for the monthly window (likely 3 days).

McMahon Services have proposed that they would deliver the scheduled barge service items to Ugar on their chartered landing barge which would contain all plant and equipment as well as containers to be filled. McMahon will arrive, unload the general freight, then begin collection of material from the dump and around community. This arrangement is between McMahon Services and Sea Swift, and was made to ensure that potential risks of delays due to barging could be mitigated.

## TSIRC's Responsibility

To ensure a best value outcome for the proposed methodology, increased input from Council's on ground staff is required. TSIRC's project manager has proposed onsite supervision for approximately 1 week per community to assist in removing as much metal waste within community, including vehicles stockpiled at the landfill or in a centralised location.

This is considered extreme value as a major lessons-learned from the current works is the late identification of outstanding metal waste within community (i.e., Community members coming forward immediately prior to the demobilisation of McMahon).

This was undertaken recently at Warraber with significant success.

## Priority Items

It is considered that each community will have a priority listing of items for collection which will detail the milestones that must be achieved and those items of priority which will be undertaken should McMahon have additional time on island. A draft for each of the remaining communities is included in *Attachment 1*.

## Alternatives

It is considered that there is no clear alternative to utilise the available funding to achieve outcome of similar value as outlined above.

## Conclusion

It is recommended that the Climate Change Adaptation and Environmental Committee notes the report and support the proposed methodology outlined to be referred to full Council at the January 2023 Council Ordinary Meeting.

## Attachment:

DRAFT – Collection Milestones

A handwritten signature in blue ink, appearing to read 'Jarrah'.

Author:

Jarrah Doran-Smith

Waste & Sustainability Engineer

A handwritten signature in black ink, appearing to read 'David Baldwin'.

Approved:

David Baldwin

Executive Director – Engineering Services



## Boigu Island Milestones and Priority Listing

### Milestones Required to Be Achieved to Satisfy Payment of Lump Sum

#### Priority 1:

##### **Milestone 1: Cleaning of Landfill**

The photographs below demonstrate the material located at or around the dump. Items include Whitegoods, steel drums, stockpiled rusted metal waste.



#### Priority 2:

##### **Milestone 2: Collection of heavy wreck vehicles from Community and Shipping Container**







### Priority 3:

#### Milestone 3: Collection of 15 relatively easy-access wreck vehicles from Community







**Priority 4: Collection of any other metal waste items in community including harder access wreck vehicles Council to try and move white goods and other small items to landfill or other laydown areas to increase McMahon's efficiency and overall success of works.**

**Awaiting Additional Permissions for Items not listed below.**





## Erub Island Milestones and Priority Listing

### Milestones Required to Be Achieved to Satisfy Payment of Lump Sum

#### Priority 1: Cleaning of Landfill and area Surrounding Landfill

##### **Milestone 1: Cleaning of Landfill and area Surrounding Landfill**

The photographs below demonstrate the material located at or around the dump. Items include Whitegoods, steel drums, wreck vehicles, stockpiled rusted metal waste.





**Priority 2: Collection of (5) heavy wreck vehicles**

**Milestone 2: Collection of (5) heavy wreck vehicles.** Additional heavy vehicle (not featured) is awaiting permission.



**Priority 3: Removal of Scrap Material and Vehicles within Council's Depot and other laydown areas**

**Milestone 3: Collection of Scrap Material and Vehicles within Council's Depot and other laydown areas**







**Priority 4: Collection of 15 easy-access wreck vehicles from Community**

**Milestone 4: Collection of 15 relatively easy-access wreck vehicles from Community** (vehicles not displayed due to confirmation of owner permission, should permission not be able to be obtained, this milestone will only apply to the number of vehicles with permission) TSIRC DEO will be responsible for obtaining permission.

**Priority 5: Collection of any other metal waste items in community including harder access wreck vehicles Council to try and move white goods and other small items to landfill or other laydown areas to increase McMahon's efficiency and overall success of works.**

Awaiting Additional Permissions for Items not listed below.



## Mer Island Milestones and Priority Listing

### Milestones Required to Be Achieved to Satisfy Payment of Lump Sum

#### Priority 1: Cleaning of Landfill and area Surrounding Landfill

##### **Milestone 1: Cleaning of Landfill and area Surrounding Landfill**

The photographs below demonstrate the material located at or around the dump. Items include Whitegoods, steel drums, wreck vehicles, stockpiled rusted metal waste.



#### Priority 2: Collection of heavy wreck vehicles from Community

##### **Milestone 2: Collection of heavy wreck vehicles from Community**







**Priority 3: Removal of Scrap Material and Vehicles within Council's Depot and other laydown areas**

**Milestone 3: Collection of Scrap Material and Vehicles within Council's Depot and other laydown areas**



**Priority 4: Collection of 15 relatively easy-access wreck vehicles from Community**

**Milestone 4: Collection of 15 relatively easy-access wreck vehicles from Community** (Additional vehicles not displayed due to confirmation of owner permission, should permission not be able to be obtained, this milestone will only apply to the number of vehicles with permission) TSIRC DEO will be responsible for obtaining permission. Council will assist in providing access or moving cars to suitable positions for ease of access.





**Priority 5: Collection of any other metal waste items in community including harder access wreck vehicles Council to try and move white goods and other small items to landfill or other laydown areas to increase McMahon's efficiency and overall success of works. Awaiting Additional Permissions for Items not listed below.**









## Saibai Island Milestones and Priority Listing

### Milestones Required to Be Achieved to Satisfy Payment of Lump Sum

#### Priority 1: Cleaning of Landfill and area Surrounding Landfill

##### **Milestone 1: Cleaning of Landfill and area Surrounding Landfill**

The photographs below demonstrate the material located at or around the dump. Items include Whitegoods, steel drums, wreck vehicles, stockpiled rusted metal waste.













**Priority 2: Collection of heavy wreck vehicles from Community, Shipping Containers/accommodation structures and Hopper**  
**Milestone 2: Collection of heavy wreck vehicles from Community, Shipping Containers/accommodation structures and Hopper**  
 Additional shipping containers not depicted below.





Priority 3: Collection of 15 relatively easy-access wreck vehicles from Community

**Milestone 3: Collection of 15 relatively easy-access wreck vehicles from Community.** (Additional vehicles not displayed due to confirmation of owner permission, should permission not be able to be obtained, this milestone will only apply to the number of vehicles with permission) TSIRC DEO will be responsible for obtaining permission.



Priority 4: Collection of any other metal waste items in community including harder access wreck vehicles **Council to try and move white goods and other small items to landfill or other laydown areas to increase McMahon's efficiency and overall success of works.**

Awaiting Additional Permissions for Items not listed below.





## Ugar Island Milestones and Priority Listing

### Milestones Required to Be Achieved to Satisfy Payment of Lump Sum

#### Priority 1:

##### **Milestone 1: Cleaning of Landfill**

The photographs below demonstrate the material located at or around the dump. Items include old playground equipment, Whitegoods, steel drums, stockpiled rusted metal waste.



#### Priority 2:

##### **Milestone 2: Removal of old steel water tank**



#### Priority 3:

##### **Milestone 3: Collection of 15 easy-access wreck vehicles from Community, and collection of trailers from community (2).**

(Additional vehicles not displayed due to confirmation of owner permission, should permission not be able to be obtained, this milestone will only apply to the number of vehicles with permission) TSIRC DEO will be responsible for obtaining permission.









Priority 4: Collection of any other metal waste items in community including harder access wreck vehicles **Council to try and move white goods and other small items to landfill to increases McMahon's efficiency.**  
Awaiting Additional Permissions for Items not listed below





# TORRES STRAIT ISLAND REGIONAL COUNCIL

## AGENDA REPORT

STANDING COMMITTEE: Climate Change Adaptation and Environment Committee

DATE: Tuesday 17<sup>th</sup> January 2023

SUBJECT: Coastal Hazard Adaptation Strategy (CHAS) Engagement Briefing

AUTHOR: Jarrah Doran-Smith – Waste & Sustainability Engineer

### Recommendation:

That the Climate Change Adaptation and Environmental Committee supports the undertaking of a TSIRC hosted **Coastal Hazard Adaptation Strategy (CHAS) Two-Day Forum** on Thursday Island between March and June 2023. This will include deciding on a date, co-designing the agenda, determining invitees and co-facilitators, and approving Council to arrange logistics for Councillor and Staff travel and accommodation, noting that financial support from LQAQ is pending.

### Purpose:

The purpose of this report is to provide an update and overview to the Climate Change Adaptation and Environmental Committee in relation to the engagement activities thus far for the CHAS. Importantly, this report also seeks Committee support and approval for a **CHAS Two-Day Forum Recommendation in March to June 2023**.

### Summary:

Table 1 provides an overview of key engagement activities undertaken thus far in preparation of the TSIRC CHAS. These key activities have been supported by regular progress meetings with the Alluvium project team and Jarrah Doran-Smith, the TSIRC CHAS PM, as well as regular one-on-one communication between Marika Seden, Cr Hilda Mosby as CCEC Chair, various Councillors as opportunities arose, Council staff, and other project stakeholders. A brief summary of these activities are provided after Table 1.

*Table 1. Overview of key engagement activities*

Date	Description	Attendees
<b>26 May 2022</b>	CHAS Communication and Engagement Planning Workshop	<b>TSIRC councillors</b> <b>TSIRC staff:</b> Jarrah Doran-Smith – TSIRC CHAS PM David Baldwin <b>Alluvium:</b> Marika Seden, Fiona Chandler, Stephanie Doumtsis
<b>22-23 June 2022</b>	Stronger Together - Responding to Climate Change in the Torres Strait Workshop	Fifty people attended the bulk of the two-day event, representing Traditional Owner representatives, Local, State and Commonwealth agency representatives, NGO's and research institutes.

<b>6 October 2022</b>	TSIRC Council Workshop (Assets focus)	CHAS Staff	<p><b>TSIRC built asset managers/supervisors:</b></p> <p>Jarrah Doran-Smith – TSIRC CHAS PM</p> <p>James William, David Baldwin, Hollie Faithfull, Peter Krebs, Terrence Jeppesen, Tony Wynen, Adeah Kabai, Mathew Brodbeck, Patrick Whittington, Peter Price, Robert Yorkston, Amanda Pearce</p> <p><b>Alluvium:</b></p> <p>Marika Seden (Alluvium), Michael Rosenthal (Alluvium), Stephanie Doumtsisi (Alluvium)</p>
<b>7 November 2022</b>	CHAS Reference Group and Councillor Briefing for workshop		<p><b>All Councillors</b></p> <p><b>TSIRC staff:</b></p> <p>Jarrah Doran-Smith – TSIRC CHAS PM</p> <p><b>Workshop planning reference group:</b></p> <p>Adeah Kabai, Pat Whittington, Mat Brodbeck, Terrence Jeppesen, Amanda Pearce, Kamuel Gibuma, Mokathani Lui</p> <p><b>Alluvium:</b></p> <p>Marika Seden, Michael Rosenthal</p>

### **CHAS Communication and Engagement Planning Workshop**

On 26th May 2022, a half-day communication and engagement workshop was held in Cairns and attended by the project team, TSIRC Councillors, TSIRC CEO, other TSIRC executive team members and staff.

The purpose of this workshop was to:

- Brief leaders on the process for developing a Coastal Hazard Adaptation Strategy, and work undertaken to date,
- Discuss planning processes and initiatives currently underway in the region,
- Seek direction and a shared understanding about the type and level of engagement, and communication protocols that would be appropriate to progress the CHAS project, and
- Reconnect and build relationships with community leaders.

Torres Strait Regional Authority (TSRA) was unable to attend the workshop but confirmed the Authority's support for developing a CHAS that will complement and strengthen regional planning.

Common themes and key messages that emerged throughout the workshop included:

- Building intergenerational change,
- Supporting education and awareness raising about coastal hazards, climate change and the range of available adaption options,

- Reinforcing regard for local cultural knowledge and importance of combining this with technical expertise and advice for better outcomes,
- Revisiting and learning from traditional settlement patterns that worked with, rather than against, the natural environment and processes,
- Shifting focus from solely hard engineering responses to exploring nature-based adaptation options,
- Decentralising funding and implementation, whilst maintaining a holistic strategic approach to unite community mindsets around 'land, people and environment',
- Respecting and maintaining the individual identity of each island and community through tailored approaches,
- Providing a clear pathway forward and link to direct funding for TSIRC to implement local-level initiatives,
- TSRA partnering with TSIRC to implement the CHAS, as both an independent and complementary strategy [to other regional strategies],
- TSIRC shaping policy that is meaningful, applicable and accessible to local jurisdictions,
- TSIRC being the "first choice partner", and
- Ensuring the CHAS highlights the cultural and economic value of Torres Strait Fisheries and includes recommendations to inform fishers and managers to prepare for the effects of climate change and minimise impacts.

As a follow up to this workshop, an information package was developed for the TSIRC councillors, CEO and John Rainbird (Climate and Coastal Project Manager, TSRA Land and Sea Management Unit). The information package contained a summary of the Queensland Government's QCoast<sub>2100</sub> Program and TSIRC's Coastal Hazard Adaptation Strategy project through Phase 5. The themes and guiding principles that stemmed from the May CHAS workshop were also summarised and included.

Hardcopies of the information package were given directly to Councillors Hilda Mosby, Rocky Stephen, Jimmy Gela and Seriako Dorante. The material was also emailed via WeTransfer to all Councillors and provided in hardcopy to Councillors at the November CHAS Reference Group and Councillor Briefing. These packages were prepared as a record of discussions at the May workshop and to support TSIRC Councillors' participation at the *Stronger Together - Responding to Climate Change in the Torres Strait* workshop held on 22-23<sup>rd</sup> June 2022. Each councillor package contained aerial maps of their island community, showing the modelled impacts of climate change and coastal hazards from 2020 to 2100, as a result of the CHAS Phase 3, 4 and 5. Alternatively, the TSIRC CEO and John Rainbird were given packages containing maps of all TSIRC islands.

## **Stronger Together - Responding to Climate Change in the Torres Strait Workshop**

On the 22-23<sup>rd</sup> June 2022, members of the project team attended a TSRA-facilitated regional climate change workshop on Thursday Island. The aims of the workshop included:

1. To provide information and engagement to key Torres Strait Islander organisations, people and associated agencies regarding climate change awareness raising and education.
2. To identify then achieve consensus around adaptation priorities for the 2022-27 plan and its approach
3. To create a respectful space to progress the climate resilience conversation and planning to explore the unique cultural implications of climate change which make this plan appropriate to the Torres Strait- and thus differentiated from other climate adaptation plans in Australia
4. To gather local and expert guidance on sector transitions and workable strategies to strengthen climate resilience appropriate to the Torres Strait
5. Clarity and commitment around climate governance for effective 2022-27 plan implementation in the Torres Strait, across local, state and national jurisdictions.

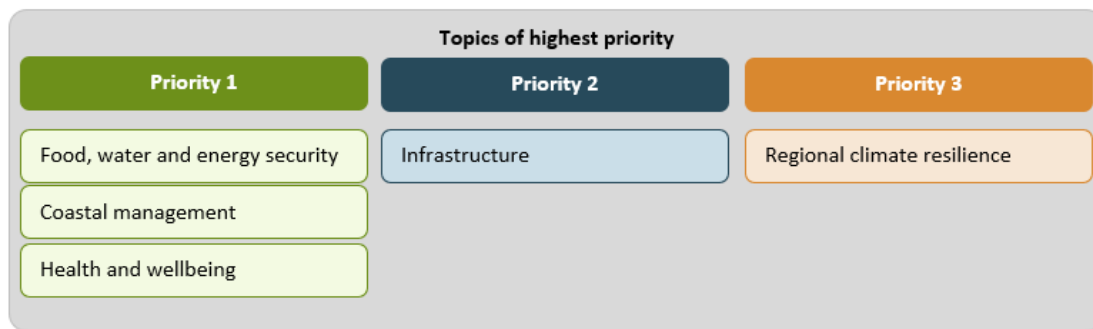
Alluvium's attendance at the workshop was intended as a way to gain a better understanding the extent of past community engagement and consultation, gauge current understanding regarding coastal hazards and adaptation options, and develop a sense of TSIRC leaders' expectations regarding local-level community engagement and consultation for the strategy.

The workshop also provided an opportunity to understand the current and emerging climate change adaptation pressures impacting the Torres Strait, beyond coastal hazards – taking a more holistic view of impacts.

Topics discussed at the workshop included:

- Health and wellbeing
- Fisheries
- Coastal management
- Economy
- Infrastructure
- Food, water and energy security
- Culture
- Regional climate resilience
- Disaster and emergency management
- Sports and recreation

From the discussions the following topics were considered to be a top priority.



A collaborative group activity using butchers paper was conducted to understand where the current gaps are in knowledge and what are the priority activities which should be conducted. The three prompts asked leading into this session were:

1. What questions I want answered?
2. What 3 things need to be done?
3. When thinking about climate change, what 3 things come to mind? (Figure 1)

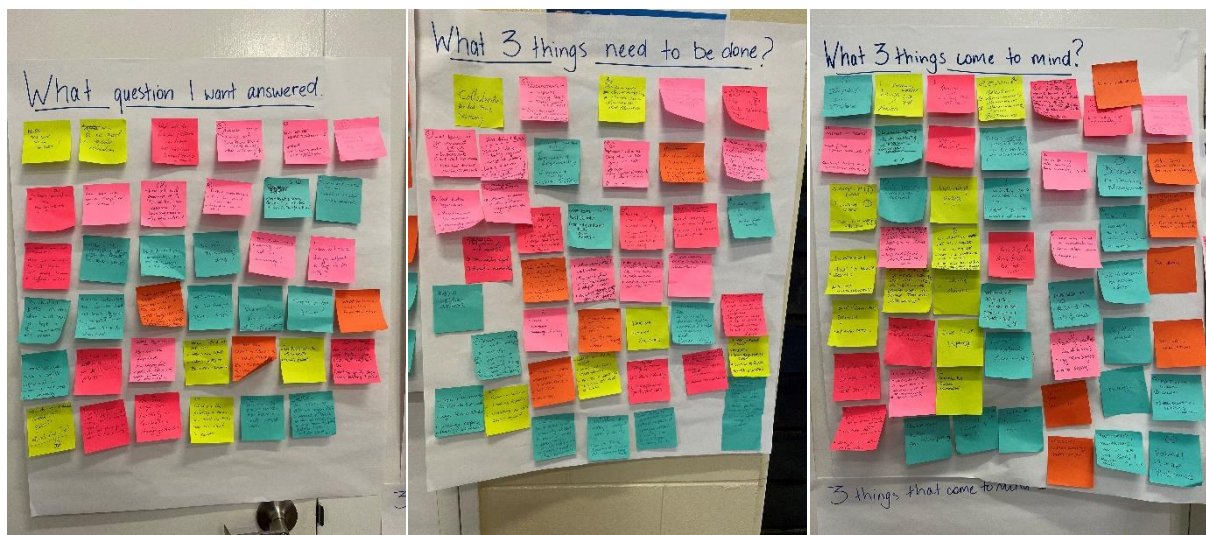


Figure 1. Three prompts asked and participant responses

The main activities that workshop participants wanted to see occur, were:

- Greater renewable energy options
- Climate resilient housing
- Local communities able to directly access technical expertise and modelling for local solutions brokering
- Local champions/resilience officers to drive this agenda and implementation of CHAS and other local resilience plans
- Affordable, quality food and water
- Greater local-based information and education resources about climate change and resilience, e.g., the waterwise program
- Exchange and transfer of technical knowledge to the community



- Resourcing of local communities to come together
- Creating energy independent island communities

During the course of the workshop, the Alluvium project team also recorded informal interviews with several community leaders to gather personal stories about climate change and coastal hazards material for informative videos that can be prepared at a later stage. These videos are currently saved as raw footage.

A follow up meeting was hosted by TSRA to discuss and synthesise key outcomes. Key messages from this discussion include:

- A regional institute of knowledge and learning for climate change and related matters to be established (sounds similar but smaller in scale to the Pacific Climate Change Centre – SPREP). This institute will lead, coordinate, and drive ongoing research, policy and implementation in the climate change space. It must have an appropriate governance framework to support equitable strategic and operational collaboration between the TSRA, TSIRC, TSC, NPARC. The knowledge held by this institute must be easily accessible to communities, local leaders and external parties wishing to positively contribute to addressing climate change issues and related matters.
- Future regional workshops, discussions and feedback mechanisms on CC, adaptation measures and community resilience should specifically provide for the participation of women, youth and younger adults.
- Well-resourced and trained Resilience Officers to be established across all Torres Strait communities, to support continued conversations in those communities, build greater understanding about suitable available adaptation strategies, support local leaders to engage and inform their respective communities as well as advocate out and up, and drive local actions that respond to the CC challenge.
- Regional and community-specific educational tools and resources to be developed to support continued conversation and awareness raising at the island community level.
- The TS should take advantage of the current global geopolitical focus on the South Pacific and strongly advocate for the TS to engage with that region on climate change issues, including to petition for COP28 to be held in Australia. This would effectively elevate TS CC issues onto the global stage.
- The TSIRC CHAS project is separate to the TS CC planning process, but development of the CHAS can provide a key element of a refreshed TS Regional Adaptation and Resilience Plan.
- Alluvium to connect with both TSRA member and TSIRC councillor for each island community to review, refresh and update coastal hazards and directly relevant adaptation strategy content of Community CC Adaptation and Resilience Plans. This will progress the TSIRC CHAS while at the same time support, be supported by and align with the TS Regional A&R Plan, its refresh, and the recommendation and implementation of key new initiatives such as the regional institute and local resilience officers.
- When Alluvium needs to undertake site investigations and verify other information in TS communities not available through other means, we will advise TSRA (via JR or other protocol advised by JR) and try to plan joint visits with TSRA staff or others

nominated by TSRA who are involved in reviewing other content and adaptation strategies contained in the plans, e.g., direct health impacts and mitigation.

- Fraser Nai is available if required to assist with connecting into TS communities to support the TSIRC CHAS project and other activities related to the TS CC planning process.
- TSRA, Alluvium and Torres Shire Council's CHAS consultants to work together to ensure both TSIRC and TSC CHAS link to and are supported by TS regional implementation plans.
- The people who attended the post-workshop debrief agree to continue as a working group to discuss and find ways to start turning these ideas into reality. Others can join/contribute.

### **TSIRC CHAS Council Staff Workshop**

On 6th October 2022, a half-day asset focused workshop was held in Cairns and facilitated by the Alluvium project team with key Council staff including the TSIRC CEO, other TSIRC executive team members and staff in attendance. The intent was to workshop with the people who are currently or most likely required in the future to lead, drive, or support the CHAS and its recommendations.

The purpose of this interactive workshop was to:

- Raise internal awareness about the project and its importance to Council
- Share the work completed to date and its implications for TSIRC and island communities
- Explain how the TSIRC CHAS relates to regional climate change and adaptation efforts
- Summarise outcomes to date from engagement with TSIRC Councillors
- Provide an opportunity for Council staff to engage with the project to ensure their perspectives are considered when developing a CHAS implementation plan
- Involve Council staff in planning for upcoming engagement activities
- Establish an internal reference group

A detailed summary of the technical outputs of the CHAS was provided including an overview of hazard mapping, and risk assessment that has been completed in previous CHAS phases. A robust group discussion was held, with questions and contributions from Council staff from multiple divisions. Common themes and key messages that emerged during the discussion include:

- council needs to have a plan on how they are to connect with the communities to address these issues.
- we need to understand if the infrastructure on the islands is suitable to increase the communities' thresholds to deal with changes in the environment and hazards through time.
- CHAS primarily looks at the impacts of coastal hazards on community well-being, however there are simultaneous consequence that will emerge as a result of changes

in climate, and there are some areas where the CHAS will overlap with other climate change plans.

- Largest challenge the council is facing is evidence-based decision making and creating / establishing a claim that there is an issue to other organisations
- council has to have one-point-of-truth regarding their data, which would help to harmonise work and reduce asymmetry, creating a united front against this issue, with no conflicting views/approaches
- Proper communication of Council's roles and responsibilities helps the community understand what is achievable through Council and what is up to them.
- Solutions which are not viable today may be viable in the future, given the changing demographic and mindset of the community. The younger generation will be the next decision makers and may have different viewpoints from their parents.

A collaborative group activity using butchers paper was conducted to understand strengths and opportunities as well as challenges associated with current council arrangements impacting project delivery and on implementation. Common themes and key messages that emerged during the activity are provided in Table 2.

*Table 2. Common themes and key messages from collaborative group activity.*

<b>Strengths/opportunities:</b>	<b>Challenges:</b>
<ul style="list-style-type: none"> <li>• Increased internal capabilities</li> <li>• Established relationships between teams/groups on and off the island</li> <li>• Experience and knowledge</li> <li>• Cultural acceptance</li> <li>• Compensation mechanisms</li> </ul>	<ul style="list-style-type: none"> <li>• Funding constraints (timelines, lack of long-term reliable and secure funding sources)</li> <li>• Costs for management and maintenance</li> <li>• For example, \$2 billion assets are being maintained by 2.5% of the council's expenditure funds. It is unrealistic to maintain all built assets with this little fundings</li> <li>• Logistic arrangements for the islands are increasingly complicated due to them being more isolated</li> <li>• Limited staff on islands/ability to have funding to train staff</li> <li>• Native title and approvals</li> <li>• Disagreements between the council and councillors</li> <li>• Collaborations with other agencies such as rangers and TSRA</li> <li>• Evidence based to support future decision making (increase credibility to secure funding)</li> <li>• Changing economic landscape</li> </ul>

An important outcome of this workshop was the establishment of a CHAS Reference Group. The purpose of this voluntary group is to be involved in planning and delivering a TSIRC CHAS Two-Day Forum next year on Thursday Island. The following people volunteered to be in this reference group:

- Adeah Kabai
- Pat Whittington
- Kamuel Gibuma
- Mokathani Lui
- Mat Brodbeck
- Terrence Jeppesen
- Amanda Pearce
- Luke Sabatino

### **CHAS Reference Group and Councillor Briefing for Workshop**

On 7<sup>th</sup> November 2022, a 90-min briefing was held in Cairns and facilitated by the Alluvium project team with all TSIRC Councillors, TSIRC executive team members and the CHAS Reference Group formed during the Council Staff workshop in attendance.

The purpose of this session was to:

- Briefly summarise engagement outcomes to-date
- Provide joint planning opportunity for next year's final CHAS forum

The CHAS Reference Group that was formed during the Council Staff workshop was introduced to the Councillors. The project team led an open discussion confirming Council's desire for a CHAS Two-Day Forum on Thursday Island, and sharing preliminary ideas about the intent and content of the forum. Agreement was reached for Alluvium to coordinate with the Climate Change & Environment Committee to continue organising the forum.

## **CHAS Two-day Forum on TI**

Consultation with Councillors, Council staff, and other stakeholders has confirmed the desire to hold a multi-day forum to support the development of the TSIRC CHAS. March to June 2023 has been identified as a target date for this workshop.

The intended attendees for this forum will be Councillors and key Council officers identified as staff who should be involved in the ongoing development of the CHAS and supporting both administrative and elected arms of Council in the implementation of the strategy. Several expert advisors already known to Councillors and Alluvium and who can use their knowledge and experience to help inform and firm up the collective ideas of the group will be invited to attend. Regional stakeholders such as TSRA and GBK may also be invited to attend. The reasoning for inviting these advisors and stakeholders to the forum, including their hoped-for role in the CHAS discussion, will be detailed in invitations.

The intent of the forum will be to focus on coastal hazard adaptation options in the TSIRC LGA while fostering collaboration with a wide range of Torres Strait stakeholders via discussions about internal adaptation and implementation needs, barriers, and opportunities. It will also provide an opportunity to clarify how the CHAS will align with regional adaptation efforts.

The desired outcome of the forum is to gather collaboratively designed input into regional, council-wide, and community specific adaptation actions. This will enable the TSIRC CHAS to contain specific, implementable and community supported adaptation plans that will guide action for the short, medium and long term.

### **Funding for forum**

LGAQ have expressed the ability to provide additional funding for the CHAS Two-Day Forum, however this may be subject to the full cost of the Forum.

Initially, and as a priority, TSIRC needs to provide a proposed estimated budget for the CHAS Two-Day Forum to LGAQ. Once this has been supplied to LGAQ, the QCoast2100 coordinator will inform us as to how much of the cost can be covered via supplementary funding.

If the LGAQ funding support is insufficient to cover the full cost of the Forum, there are options available to allow a suitable alternative including:

- Align the Forum with an existing Council Ordinary Meeting, enabling cost savings by relying on pre-approved travel arrangements for Councillors. We note that this isn't the preferred approach because Councillors have expressed the desire to have a standalone event to avoid workshop fatigue.
- Divert CHAS Phase 6-8 funds from the current budget, noting that this will be insufficient to cover a significant portion of the cost, and would just be supplementary.
- Hold the event in Cairns rather than Thursday Island. Although the cost savings for this option may be minor.
- TSIRC contributes a portion of the funding to cover the difference.

### **Forum preparation**

The following items require attention in preparation for the forum.

- Secure funding from LGAQ (Joint responsibility, TSIRC & Alluvium)
- Planning & logistics – dates, venue, travel, accommodation (TSIRC)

- Finalise agenda, invitee list, and confirm guest contributors/facilitators (Joint responsibility, TSIRC & Alluvium)
- Develop draft adaptation plans for each community (Alluvium responsibility)
- Communicate pre-forum preparation for Councillors as community representatives. (Joint responsibility, TSIRC & Alluvium)

Committee members are invited to provide input and recommendations on the structure of the forum, as well as the prompts provided to Councillors for their pre-forum preparation as community representatives.

### Draft agenda for CHAS Two-Day Forum

The following is an initial draft of a proposed agenda for the CHAS Two-Day Forum. This has been designed to allow for sufficient time to discuss important elements of coastal hazard adaptation in the Torres Strait and facilitate the gathering of information needed to design a useful Adaptation Strategy.

As more details about the CHAS Two-Day Forum are confirmed, this agenda will be refined to reflect input from the CC&E Committee and the project team.

Date and time	TBC March 2023
Venue	TBC Thursday Island
Purpose	<p>The purpose of this two day workshop is to:</p> <ul style="list-style-type: none"> <li>• Raise internal and external awareness about the project and its importance to Council</li> <li>• Share the work completed to date and its implications for TSIRC and island communities</li> <li>• Co-design regional, council wide, and community specific adaptation actions</li> <li>• Provide an opportunity for Councillors, Council staff, Government representatives and external experts to engage with the project to ensure their perspectives are considered when developing a CHAS implementation plan</li> <li>• Explore how the TSIRC CHAS relates to regional climate change and adaptation efforts</li> </ul>
Invitees (TBC)	<ul style="list-style-type: none"> <li>• Councillors</li> <li>• Key Council staff</li> <li>• TSRA representatives</li> <li>• GBK representatives</li> <li>• External experts</li> </ul>
Project Team Members	<p><b>Marika Seden</b>, Alluvium (Lead facilitator)</p> <p><b>Michael Rosenthal</b>, Alluvium (Project Manager &amp; co-facilitator)</p> <p><b>Adam Brook</b>, Alluvium (Senior Coastal Engineer &amp; co-facilitator)</p> <p><b>Stephanie Doumstis</b>, Alluvium (Workshop &amp; technical support)</p>
Possible co-facilitators	CC&E to provide input.



**Pre-event**  
**Arrival to TI (Day 0)**  
**Welcome dinner**

<b>Time</b>	<b>Agenda item</b>	<b>Description</b>
<b>Day 1 – 8:00 AM arrival and registration, 9:00 AM start (coffee and brekky provided)</b>		
<b>9:00 – 9:30 30 mins</b>	Opening Prayer Welcome, acknowledgements and introductions	Establish group mindset State our purpose in prayer Talk about who is here and their roles over the two days
<b>9:30 – 10:30 60 mins</b>	Why are we here?	Statement on coastal hazards and climate change in Torres Strait. What is a CHAS and how can it help? <ul style="list-style-type: none"> <li>- In/out of scope</li> <li>- What does the final strategy look like and how will it be used?</li> </ul> What are we hoping to yarn about and learn over the two days? <ul style="list-style-type: none"> <li>- Themes and principles</li> <li>- Tough conversations</li> <li>- Communication</li> <li>- Education</li> <li>- Nature based adaptation</li> <li>- Resilient assets</li> <li>- Engineering</li> <li>- Planning</li> <li>- Monitoring</li> <li>- Roles and responsibilities, governance and funding</li> </ul>
<b>10:30 – 11:00 30 mins</b>	Morning tea	
<b>11:00 – 12:00 60 mins</b>	Themes and principles of discussion	Positive messaging, fostering hope for a thriving future in the Torres Strait Learning from the past, preparing for the future <ul style="list-style-type: none"> <li>- What has been done in the past, and what is possible in the future</li> </ul> Take advantage of the moment Council wide vs. community specific Adaptation pathways
<b>12:00 – 1:00 60 mins</b>	Lunch	
<b>1:00 – 1:30 30 mins</b>	Overview of adaptation options	Prelude into detailed discussion
<b>1:30 – 3:30 120 mins</b>	Tough conversations	Understanding climate change projections Relocation vs staying in place Protecting culture

Time	Agenda item	Description
		Imagining the Torres Strait of the future
<b>3:30 – 4:00</b> <b>30 mins</b>	Afternoon tea	
<b>4:00 – 5:00</b>	Recap and preview of Day 2	Provide draft island specific plans to each Councillor
<b>5:00</b>	Close Day 1	

Time	Agenda item	Description
<b>Day 2 – 8:30 AM arrival, 9:00 AM start (coffee and brekky provided)</b>		
<b>9:00 – 9:15</b> <b>15 mins</b>	Opening prayer and recap of Day 1	Reinforce themes and principles
<b>9:15 – 9:30</b> <b>15 mins</b>	How today will work	Note draft adaptation plans for each island Deep dive into adaptation options Small groups and big group
<b>9:30 – 10:30</b> <b>60 mins</b>	Communication	Who, what, when, how?
<b>10:30 – 11:00</b> <b>30 mins</b>	Morning tea	
<b>11:00 – 12:00</b> <b>60 mins</b>	Education and monitoring	Who, what, when, how?
<b>12:00 – 1:00</b> <b>60 mins</b>	Lunch	
<b>1:00 – 2:30</b> <b>90 mins</b>	Nature based adaptation and engineering	Pros and cons Different options Lessons learnt Pathways to implementation
<b>2:30 – 4:00</b> <b>90 mins</b>	Resilient assets and planning	Different options Lessons learnt Pathways to implementation
<b>4:00 – 4:15</b> <b>15 mins</b>	Afternoon tea	
<b>4:15 – 5:00</b> <b>45 mins</b>	Roles and responsibilities, governance and funding	Who, what, when, how?
<b>5:00 – 5:30</b> <b>30 mins</b>	Recap, next steps, and close Day 2	

## Conclusion

It is recommended that the that the Climate Change Adaptation and Environmental Committee notes the report and support the content to be referred to full Council at the December 2022 Council Ordinary Meeting.

A blue ink signature of Jarrah Doran-Smith, written in a cursive style.

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