

INFRASTRUCTURE NT

# *Middle Arm Update*

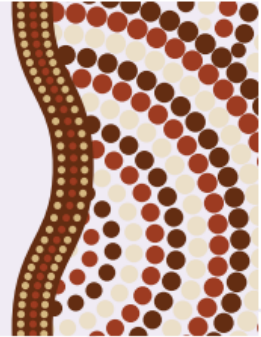
April 2024 – Senate Inquiry



## Acknowledgement of Country

Infrastructure NT acknowledges the Traditional Owners and Custodians across the Nation and their connection to country.

We pay our respects to their communities and Elders – past, present and emerging.



# Government's Vision

## *A growth agenda*

There are three key elements that will influence the ability to achieve the NT Government's vision:

- ✓ The **industry sectors** that will grow our economy, and subsequently our population
- ✓ The **enabling infrastructure ecosystems** to support this growth
- ✓ Cross cutting **infrastructure investment objectives**

Gross State Product



\$40 billion economy by 2030

Economic base



Diversifying our sectors and markets

Sustainable



Net zero economy by 2050

Employment



Creating 35 000 more jobs

Population



Boosting our population beyond 300 000

# Planning for Growth



Investment  
Portfolio

GROWTH

Enabling  
Infrastructure



# Who we are



## **The first NT I-Body**

- Undertake strategic infrastructure planning and development which co-ordinates and aligns infrastructure needs with economic and population growth
- Support the work of the Investment and Major Projects Commissioners through the planning and delivery of NT Government economic enabling infrastructure
- Represent and advocate for the Territory's interests nationally
- Work closely with Infrastructure Australia on business case development for nationally significant infrastructure projects



## **Ministerial Portfolio**

- Minister for Territory Development - The Hon Eva Lawler MLA

# Who we are



## Project delivery

- Adelaide River Off-stream Water Storage
- Civic and State Square Precinct
- Darwin Ship Lift Facility
- Frances Bay Mooring Basin
- Gove Port Development
- Gunyangara (Gove Port) Tourism Precinct
- Mandorah Marine Facilities
- Manton Dam Return to Service
- Middle Arm Sustainable Development Precinct
- Regional Logistics Hubs
- Tennant Creek to Darwin Infrastructure Corridor





A map of Southeast Asia and Oceania with concentric circles indicating distances from Darwin, Northern Territory. The circles are labeled 500 km, 1000 km, 2000 km, 3000 km, 4000 km, 5000 km, 6000 km, and 7000 km. Major cities marked include Seoul, Tokyo, Shanghai, Taipei, Hong Kong, Manila, Bangkok, Kuala Lumpur, Singapore, Jakarta, Denpasar, Dili, Port Moresby, Perth, Adelaide, Melbourne, Sydney, Canberra, and Hobart. The Northern Territory is highlighted in red.

# Globally strategic location



An offshore oil rig illuminated at sunset, with the sun low on the horizon and the rig's lights reflecting on the water.

# World-class resources



A portrait of a young woman wearing a yellow hard hat and safety glasses, smiling. She is wearing a blue and white striped shirt and a high-visibility vest.

# Advanced skills



THE  
TERRITORY  
BOUNDLESS POSSIBLE





# The Precinct

A master planning industrial precinct to establish a low emissions/renewable energy and manufacturing hub.

Sustainable outcomes and environmental protection of Darwin Harbour and surrounds are at the core of planning for the Middle Arm Sustainable Development Precinct.

Target industries include low emission hydrocarbons, green hydrogen, advanced manufacturing, carbon capture and storage and minerals processing.

 - Precinct development >1500 ha

 - Marine terminal + MOF

 - Rail access




 - Product & feedstock corridors

 - Renewable power & water

 - Carbon capture infrastructure



# *Key actions underway*

-  Business Case Development and Assessment
-  Strategic Environmental Assessment
-  Cultural Consultative Committee
-  Planning for delivery
-  Continuing to work with Proponents

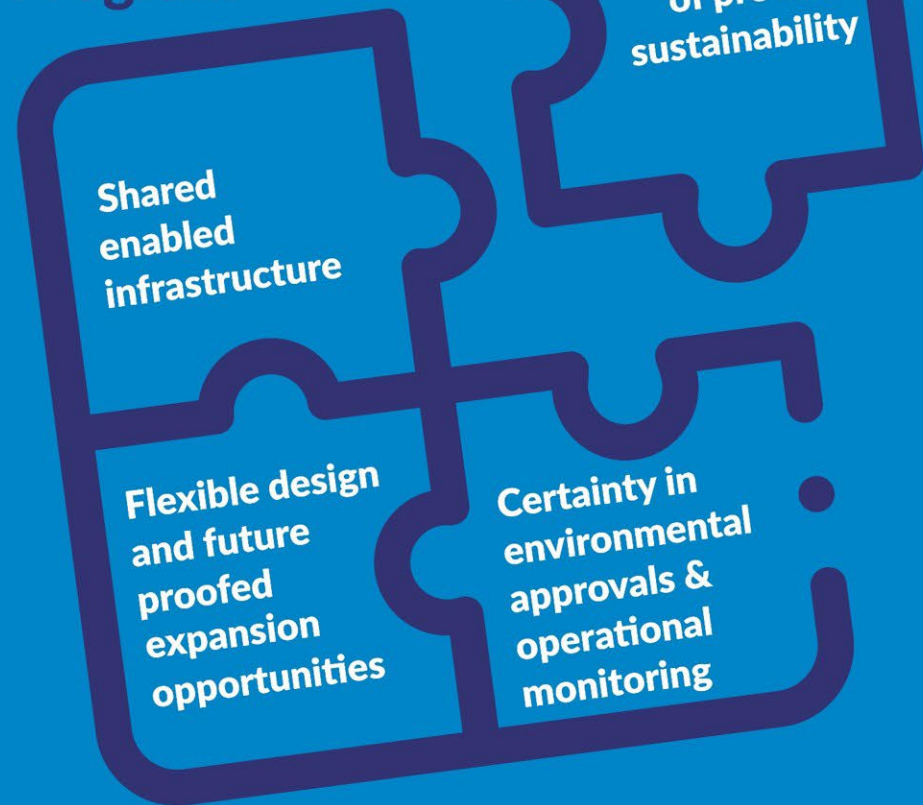
# *Cultural Consultative Committee*

- ✓ A Cultural Consultative Committee has been established.
- ✓ Representatives from Larrakia Development Corporation, Larrakia Nation, Gwalwa Daraniki Association and Northern Land Council are part of the Committee.

# Cultural Consultative Committee

- ✓ The Cultural Consultative Committee outputs will include:
  - An independent review of the cultural heritage and environmental work undertaken to date.
  - A Cultural Heritage Survey and Cultural Heritage Management Plan.
- ✓ The work will be integrated into the delivery and design of the precinct.

## Benefits of the Master Planning Program



# Strategic Environmental Assessment

A Strategic Environmental assessment of the Precinct will provide:

- greater upfront certainty for developers, while also delivering better environmental outcomes for the significant environmental values in the Middle Arm Precinct and the broader Darwin Harbour
- clear environmental commitments, targets and thresholds
- greater certainty for environmental outcomes – the scope and scale of development under the program is clear





## Environmental Studies

- Environment protection is critical to project planning
- Socioeconomic & Cultural
- Air, Land & Sea
- Sustainability

# 115

Stage Deliverables



## Industry Planning

- Industrial ecology
- Precinct sustainability
- Shared infrastructure



## Land Development

- Road & Rail
- Product corridors
- Sewerage & drains



## Marine Development

- Shipping channel
- Causeway & Wharf design
- Swing basin

# 80

Stage Deliverables  
Combined

# 46

Stage Deliverables



Infrastructure  
Masterplan



Strategic  
Environmental  
Assessment



Business Case



# - First of its kind in the Northern Territory

The Infrastructure Sustainability Council (ISC) is a member-based, not-for-profit peak body operating in Australia and New Zealand with the purpose of enabling sustainability outcomes in infrastructure.

- **Infrastructure Sustainability (IS) rating scheme for planning, design, construction and operations of infrastructure assets**
- **Independent verification**
- **Recognition and rewarding best practice**
- **It's about doing things "Better"!**



Social/Cultural



Environment



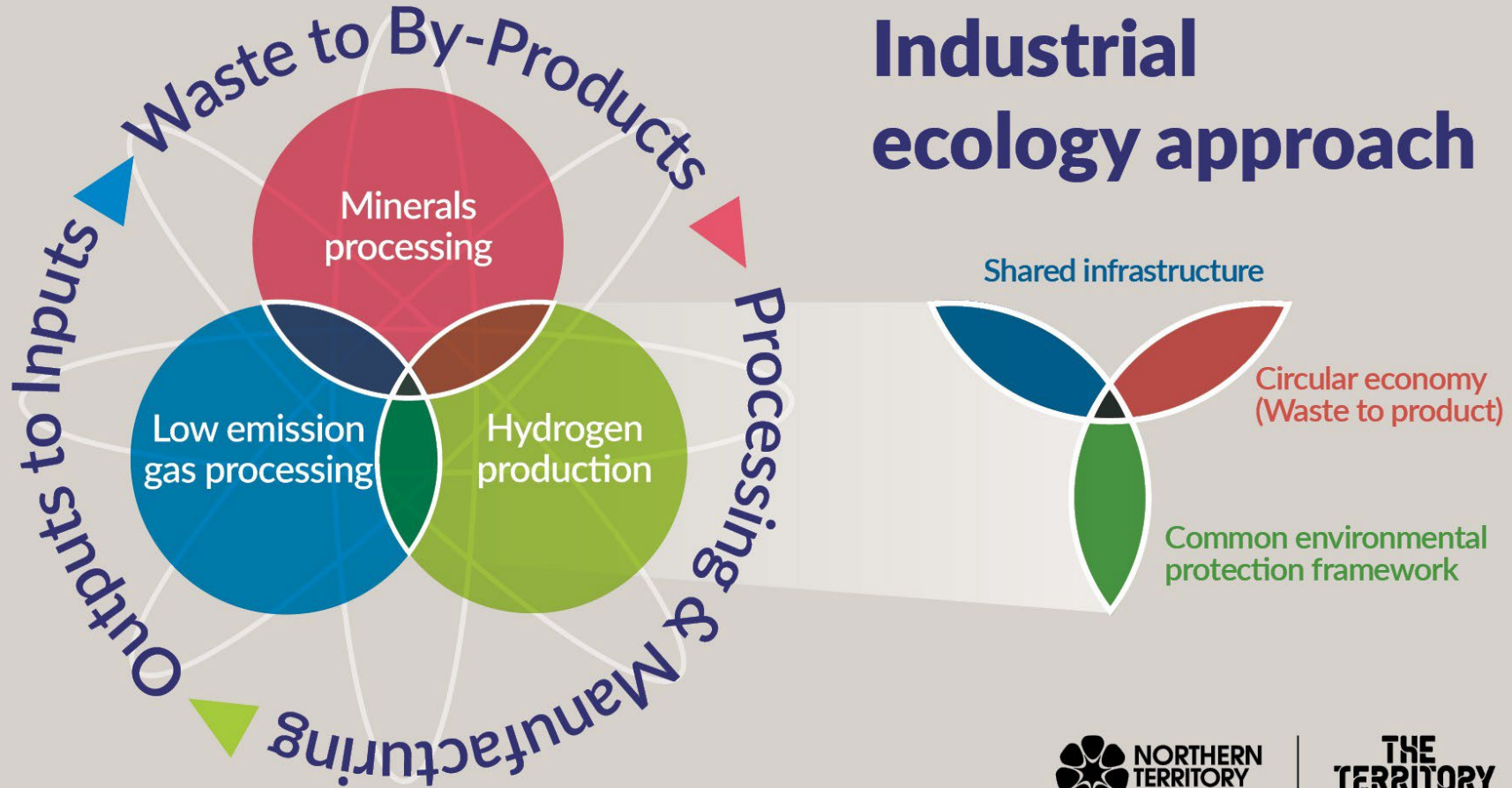
Governance



Economic



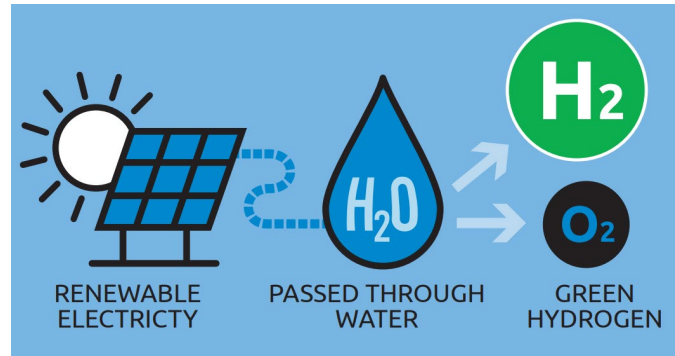
# Industrial ecology approach



# Middle Arm Proponents

## ✓ TEH2, 100% owned by Total Eren

Renewable energy: a global independent power producer, is proposing to develop a green hydrogen production facility using solar energy with the capability of producing more than 80,000 tonnes of renewables-based hydrogen per annum for domestic and export potential.

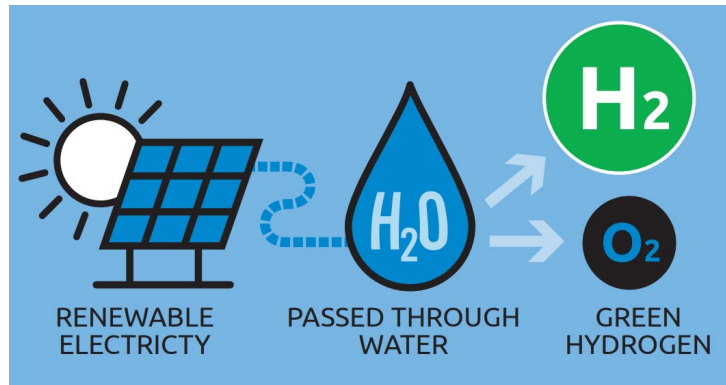




# Middle Arm Proponents

## ✔ Fortescue Future Industries (FFI)

Renewable energy: the global green energy company, is proposing to develop a green hydrogen hub, comprised of green hydrogen and green ammonia production and export facilities.



# *Middle Arm Proponents*

## Tivan

Critical minerals: is proposing to produce vanadium oxides through application of innovative downstream processing technology using feedstock sourced from Tivan's Speewah and Mount Peake Projects; titanium dioxide and iron oxide also produced as by-products. Tivan is also working to facilitate an industrialisation pathway for vanadium redox flow batteries.

# *Middle Arm Proponents*



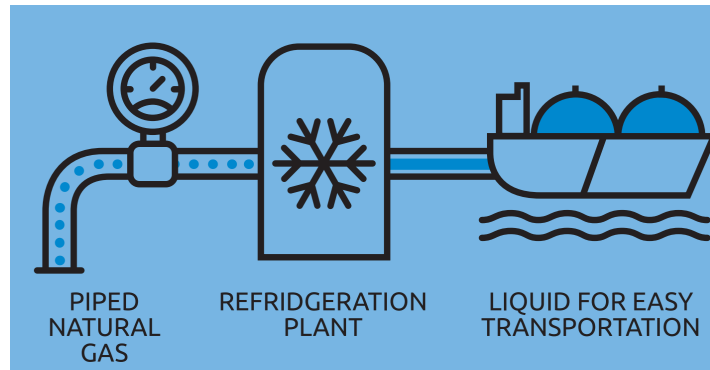
## **Avenira**

Critical minerals: is proposing a lithium-ferro-phosphate (LFP) cathode manufacturing facility, which will manufacture pre cursor battery cathode materials from critical minerals, including phosphate sourced from the Wonarah Project in the Northern Territory.

# Middle Arm Proponents

## ✓ Tamboran

Natural gas: a lower CO2 emissions liquefied natural gas (LNG) export facility. Gas from this export facility will play an important role in the decarbonisation plans of our neighbours and trading partners in Asia and beyond.



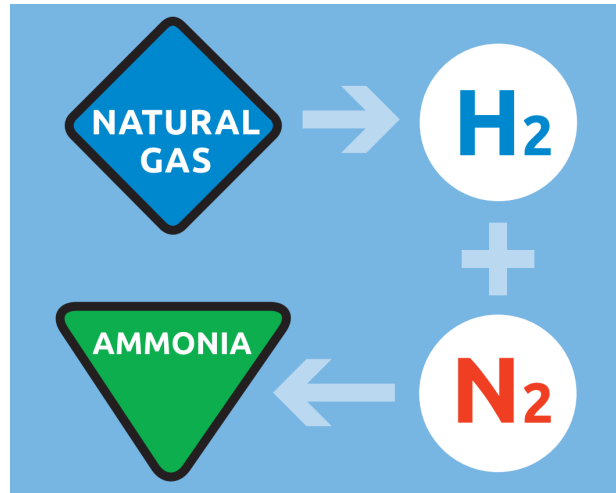


# Middle Arm Proponents

✓ Memorandum of Understanding

Larrakia Energy, KOMIPO, Progressive Green Solutions

Large Indigenous owned solar farm to power a green ammonia project.



# *Key infrastructure enablers*



Marine infrastructure



Transport network upgrades



Renewable industrial scale energy



Workers – accommodation, land supply, transport



Carbon Capture and Storage



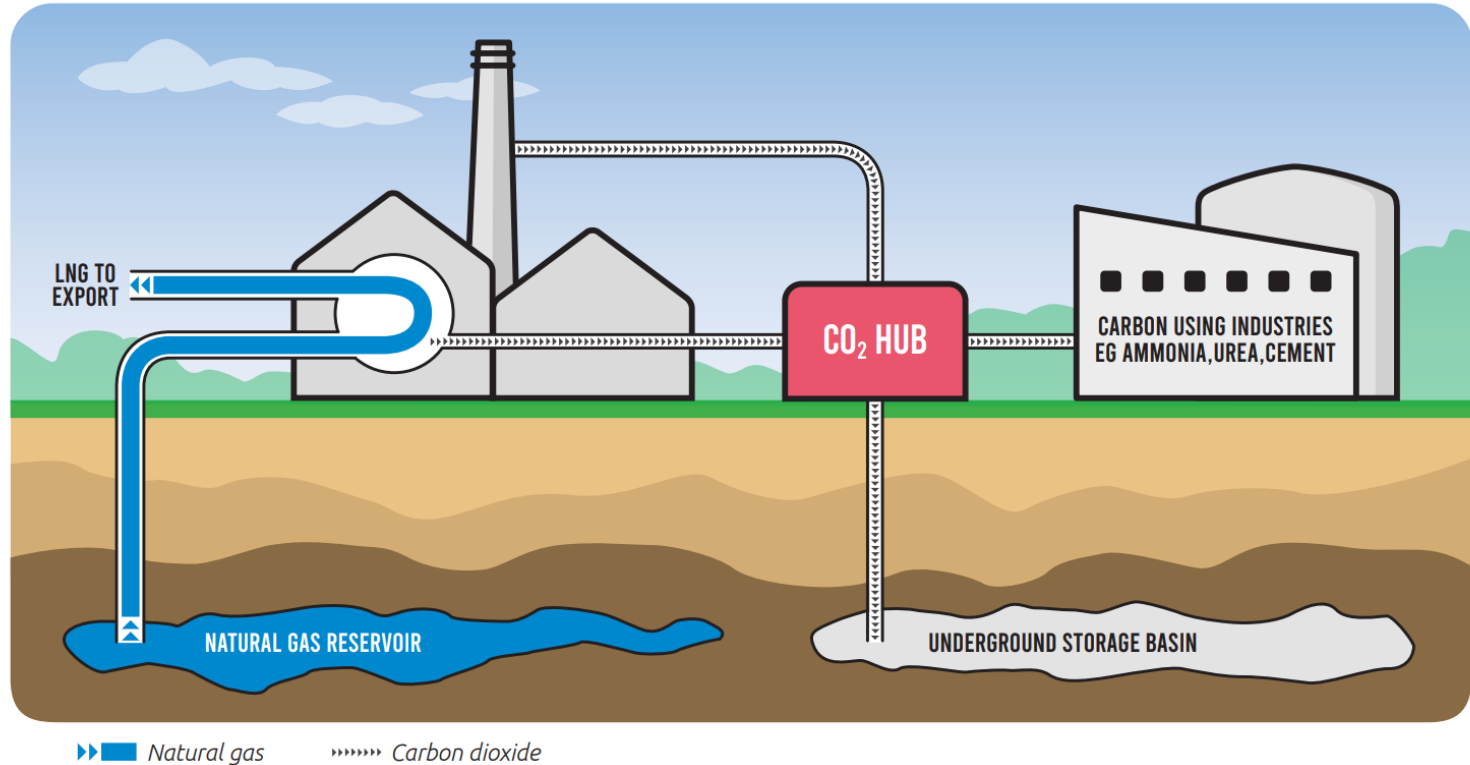
**Modular Offloading Facility  
(MOF)**

**Product Jetties**

# *Modular Transfer*



# Carbon Capture and Storage





# Timelines

## Middle Arm Sustainable Development Precinct Timeline

### MID 2022

- Precinct planning and concept design commences
- Baseline environmental studies commence
- Engagement commences to inform the draft Environmental Impact Statement

### LATE 2022

- Commence Strategic Environmental Assessment (this includes the MASDP\* Program and draft Environmental Impact Statement)

### LATE 2023

- Strategic Environmental Assessment submission for Commonwealth adequacy review

### LATE 2024

- MASDP Program and draft Environmental Impact Statement goes on public exhibition for 60 business days (seeking feedback – for NT and Commonwealth regulators)
- Commence supplementary Environmental Impact Statement to address feedback

### EARLY 2025

- Supplementary Environmental Impact Statement goes on public exhibition for 15 business days (seeking feedback – for NT and Commonwealth regulators)

### SUBJECT TO APPROVALS

### FROM 2026

- Proponents (including DIPL) prepare approval notice applications to construct and operate in the Precinct
- DIPL to submit approval notice applications with NT Environment Protection Authority for approval
- Construction of enabling infrastructure



\* Middle Arm Sustainable Development Precinct

Detailed design activities are subject to progression of the environmental approval processes and procurement strategy.



*For more information*

**[middlearmprecinct.nt.gov.au](http://middlearmprecinct.nt.gov.au)**

