



Department of Energy, Mines,
Industry Regulation and Safety
Energy Policy WA

● Pilbara Energy Transition

Roundtable meeting 2
Port Hedland

13 September 2024

Welcome to Country

Raylene Button

Kariyarra Pirnthurruna Native Title Group



Agenda

- 01 Welcome and Apologies**
Jai Thomas, Coordinator of Energy
- 02 Competition Law Obligations**
Matt Knox, HFW Australia
- 03 Ministerial Address**
Hon Reece Whitby MLA
- 04 2024 Priorities**
Tim Bray, Assistant Coordinator, Energy Policy WA
- 05 Aboriginal Participation and the Pilbara Energy Transition**
Paul Meyerkort, General Manager, Consumer Policy Energy Policy WA

- 06 Delivery of the Pilbara Energy Transition Plan**
 - Land Tenure – Matt Darcey , Assistant Director General, Land Use Management and Terri Gartside, Project Manager, Land Use Management, DPLH
 - Electricity Modelling – Chris McKay, General Manager, Pilbara Energy Transition, Energy Policy WA
 - Regulatory Evolution - Kathryn Barrie, Director, Strategic Energy Policy WA
- 07 Question and Answer Session**
Facilitated by Jai Thomas, Coordinator of Energy
- 08 Closing Remarks**
Hon Reece Whitby MLA

● Competition Law Obligations

Attendees are to note their obligations under the *Competition and Consumer Act 2010 (CCA)*.

- It is recognised that some attendees are from organisations that may presently compete with each other and they are to note their obligations under the *Competition and Consumer Act 2010 (CCA)*.
- By attending, participants acknowledge and agree that they will, at all times during the meeting, comply with their Competition Law obligations.
- If any attendee has a concern regarding the competition law implications of any issue being discussed at a meeting, it should be brought to the immediate attention of the Chair.
- Matt Knox from HFW Australia is attending the meeting to assist EPWA and attendees in meeting obligations.
 - This presentation has been reviewed and will be sent out following the meeting.
 - The discussions will be minuted and a draft circulated to attendees for approval following the meeting.

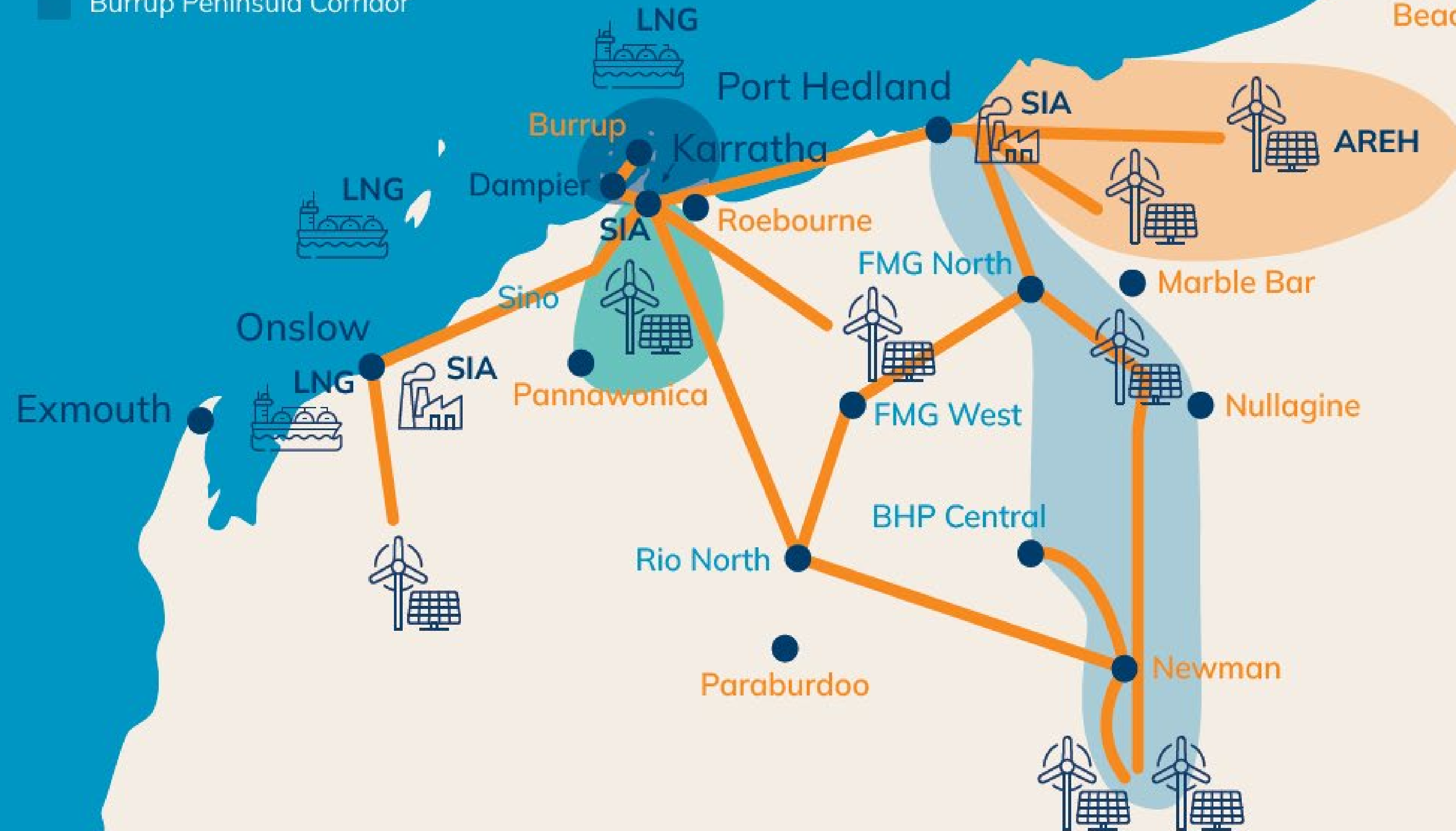


Ministerial address

Hon Reece Whitby MLA, Minister for Energy

Pilbara Energy Transition network modelling

- Hamersley Range Corridor
- Great Sandy Desert Corridor
- Chichester Range Corridor
- Burru Peninsula Corridor



Modelled lines and hubs indicative only



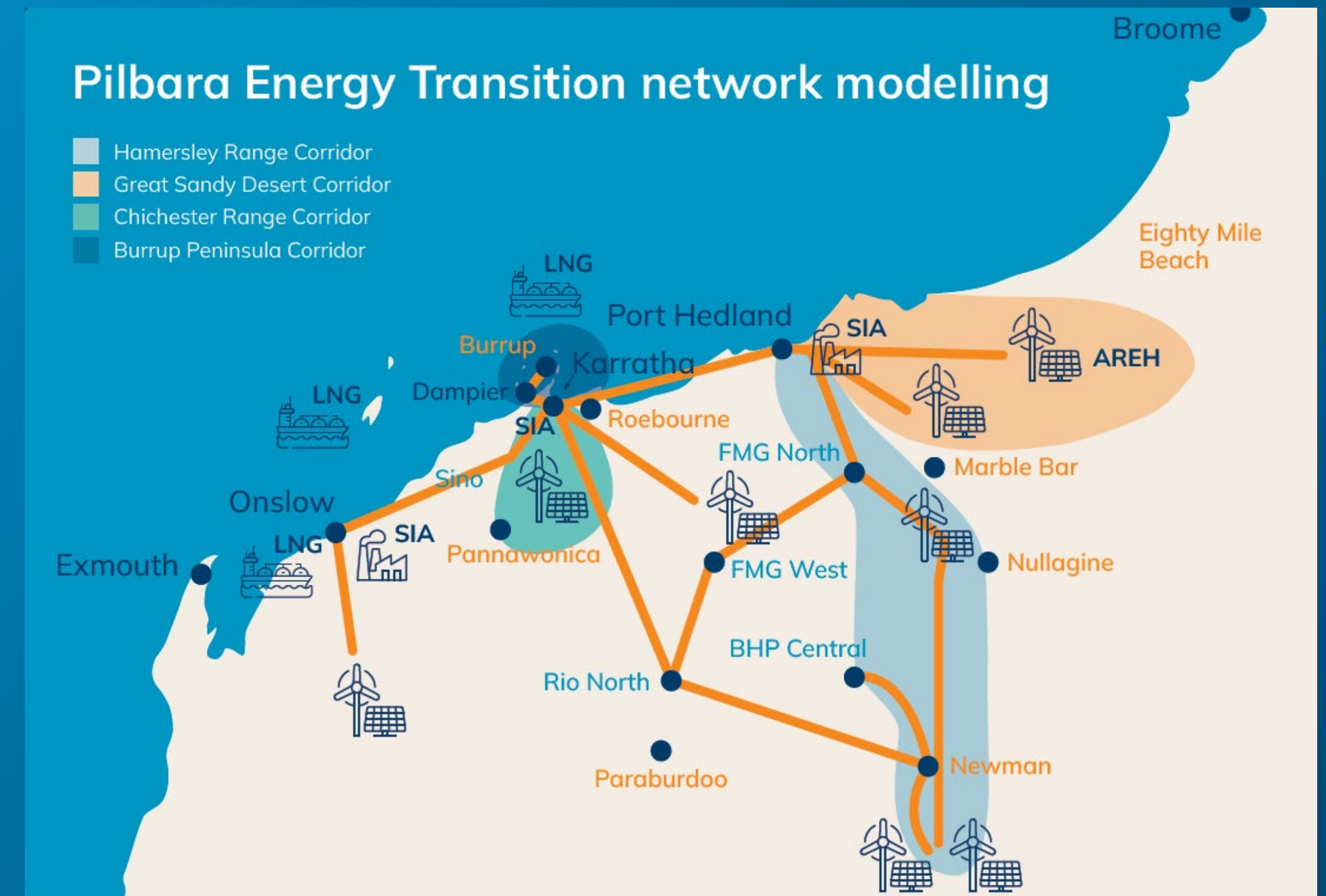
2024 Priorities

Tim Bray, Assistant Coordinator



Priority corridors

- Four common use transmission priorities form the first wave of an expanded Pilbara network
- Will allow all major load centres access to greatest diversity of high-quality wind resources in the region
- Informed by power systems modelling undertaken in 2023 and extensive stakeholder consultation in 2024
- Two in West Pilbara:
 - Burrup (Murujuga) Corridor
 - Chichester Range Corridor
- Two in East Pilbara:
 - Hamersley Range Corridor
 - Great Sandy Desert Corridor



Burrup (Murujuga) Corridor

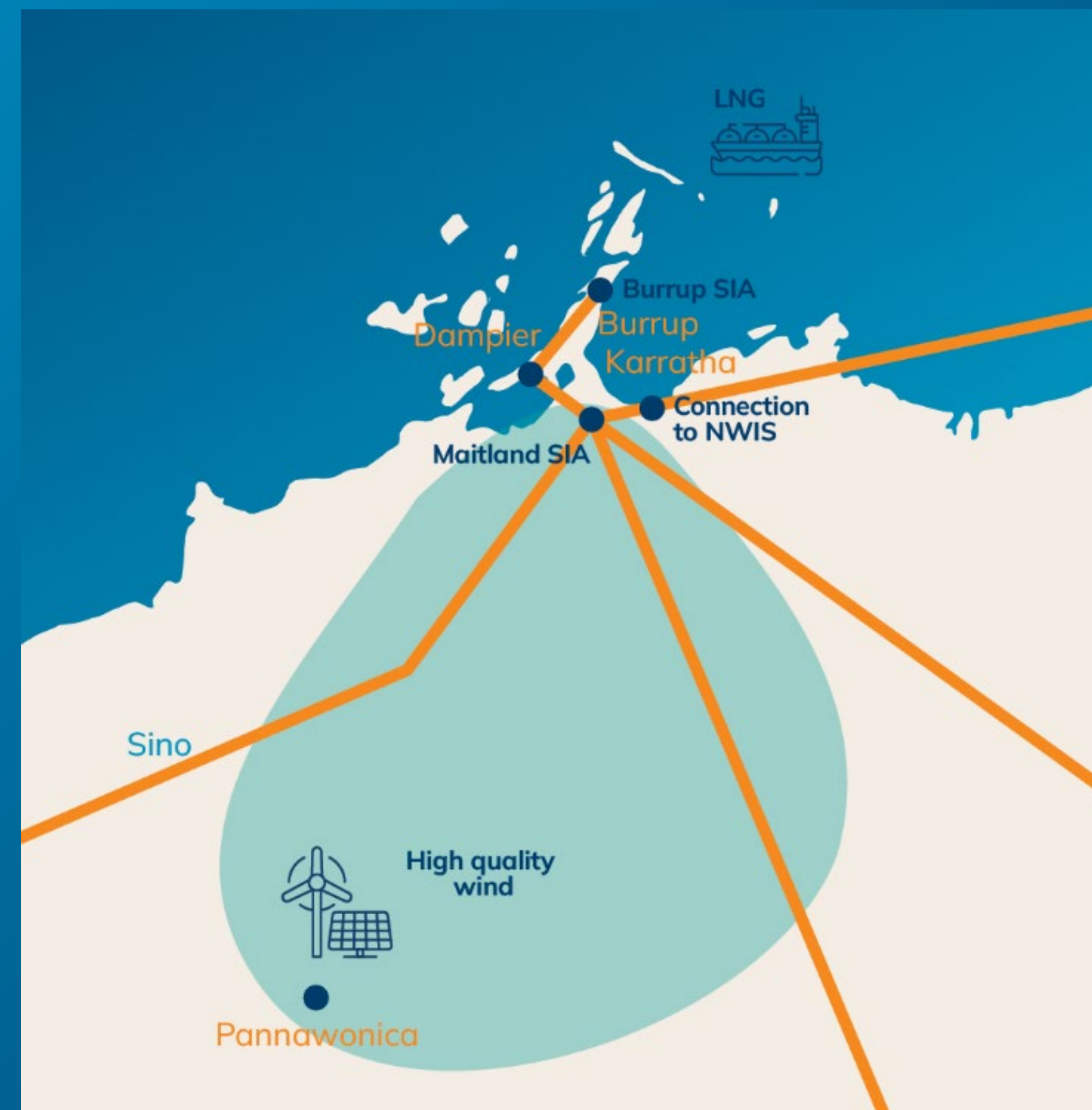
Linking Maitland, Karratha and Murujuga

- Facilitates decarbonisation of fertiliser and LNG plants on Burrup SIA, activation of Maitland SIA, and provides greater access to renewable energy across population centres on the coastal network.
- Original planning, led by Horizon Power, included a 132 kV solution to facilitate delivery of 50 MW solar farm to Pluto LNG Plant.
- The WA Government responded to Traditional Owner concerns by planning for increased capacity to limit future duplication.
- Early works (design, approvals and offtake discussions) being progressed by State in partnership with Traditional owners) with view that private sector will develop project



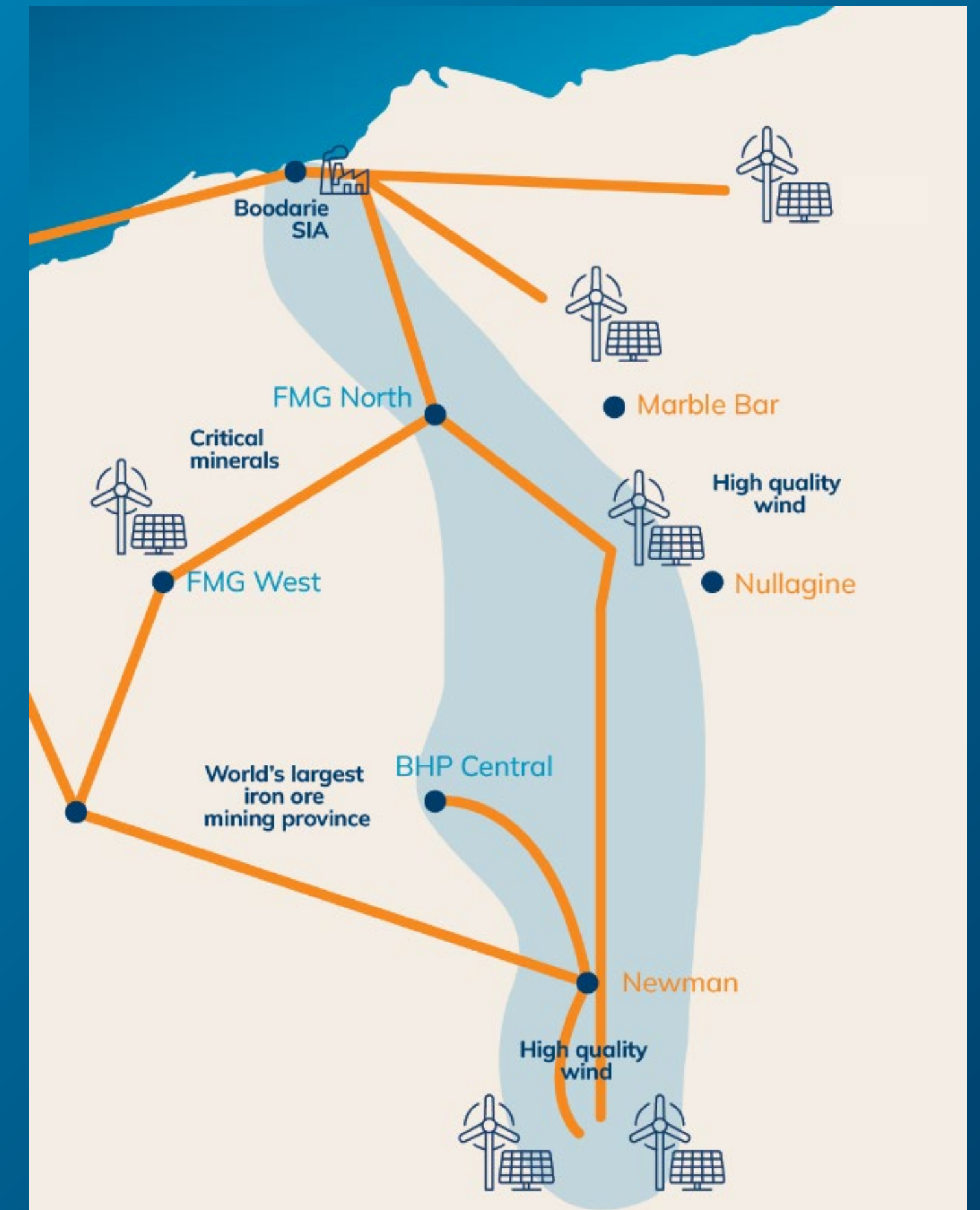
Chichester Range Corridor

- Connect Maitland SIA with high-quality wind zone approximately 50 to 100 kilometres further south, proximate to Chichester Range
- Activation of high-quality wind areas at the end of the corridor will be a valuable source of geographic diversity where most wind areas are located east and south of main demand centres



Hamersley Range Corridor

- Connect Boodarie SIA and Port Hedland with eastern edge of the Hamersley Range
- Will be integral part of future interconnected Pilbara network with a great diversity of electricity consumers and high-quality wind generation
- Some of the best quality wind resources in the Pilbara are located east and south of this proposed line
- Four of the largest iron ore mines by volume are located in close proximity, significant lithium mines, the world's largest bulk export port and Boodarie SIA



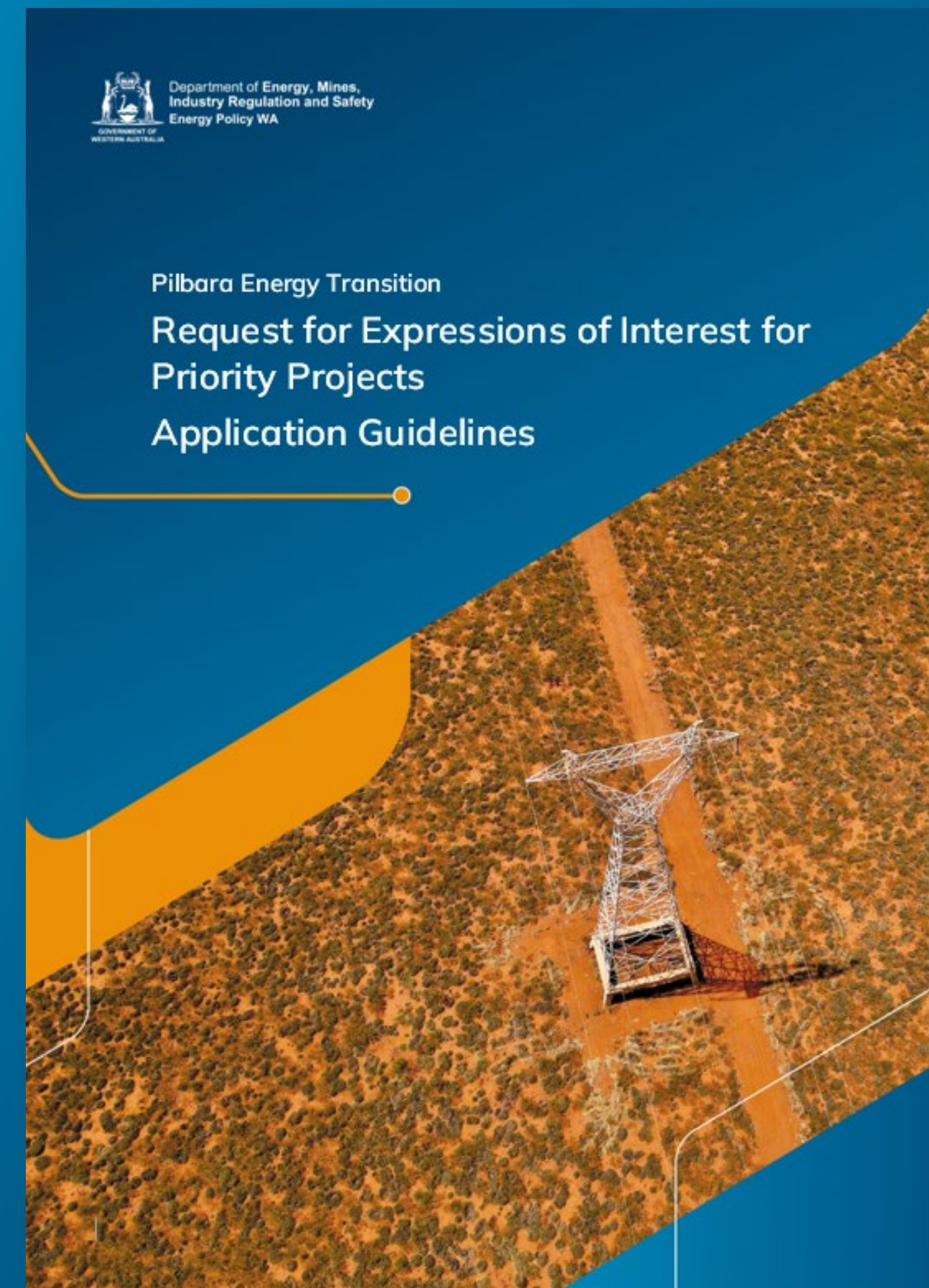
Great Sandy Desert Corridor

- Link Port Hedland with the western end of the Great Sandy Desert
- Link Boodarie SIA with the vast renewable resources that generators are looking to develop to the east
- Combined with Hamersley Corridor, will offer substantial renewable generation options to ensure competitive supply of green electricity to the eastern Pilbara.



Request for Expressions of Interest

- Submissions from project proponents to be awarded Priority Project status in one or more of the priority transmission corridors.
- Priority Project status, on a pathway to:
 - negotiate agreements with the State or State entity; and
 - receive a recommendation from the State Government to the Clean Energy Finance Corporation for the project to be considered for concessional finance from Rewiring the Nation
- Rewiring the Nation is an Australian Government program investing \$20 billion to upgrade and expand national electricity grids and provide new transmission infrastructure in support of decarbonisation efforts
- Up to \$3 billion of RTN funds available as concessional finance to support transmission projects in WA.



● Assessment criteria

- **Supports Pilbara decarbonisation**

The project is appropriately sized and supports linking of renewable generation to demand centres

- **Positive Outcomes for Traditional Owners**

The project proponent demonstrates, or commits to demonstrate, best practice engagement with impacted Traditional Owner groups and mechanisms to share project benefits with these groups.

- **Positive Outcomes for the Community**

The project proponent demonstrates, or commits to demonstrate, best practice engagement and consideration of benefits with impacted communities.

- **Provides Common-Use Infrastructure**

The project will provide credible, effective third party access to all access seekers on reasonable and equitable terms.

- **Project Viability and Timeliness**

The proponent has the capacity to progress and deliver the project in a timely fashion.

The Process



- **Overview of the Aboriginal Participation Workstream**

Paul Meyerkort, General Manager, Consumer Policy, EPWA

● Aboriginal Participation Workstream

Objective

To support Aboriginal people in and around the Pilbara region to participate in, and benefit from, the Pilbara Energy Transition.

How?

1. Establish and administer a process for Traditional Owner groups to provide input to the Pilbara Energy Transition Plan
2. Define State and Traditional Owner group expectations for proponent engagement on energy projects
3. Establish and administer programs that support Traditional Owner groups to participate in renewable energy projects
4. Develop a policy on regional benefit sharing among Traditional Owners for Pilbara transmission projects

Who we are

Tim Bray

Assistant Coordinator of
Energy

Kate
George

Consultant Adviser

Paul
Meyerkort

General Manager

Sue
Meaghan

Consultant Legal
Adviser

Patience
Lindhjem

Principal Policy Officer

Gino
Trichilo

Principal Policy Officer

Cesira
Leigh

Project Manager

Veronica
Pannell

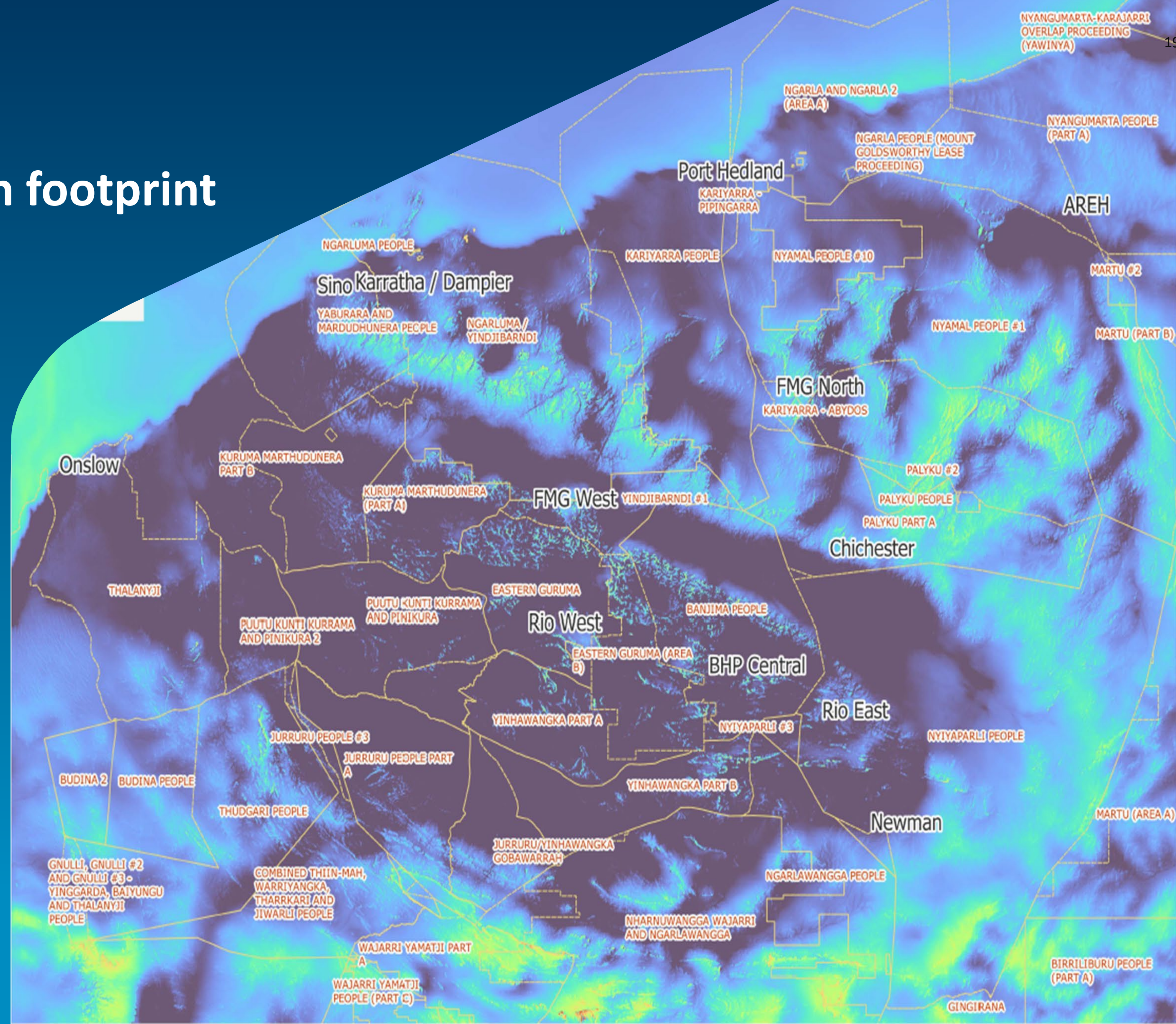
Policy Officer

Julie Ann
Slater-King

Business Support Officer

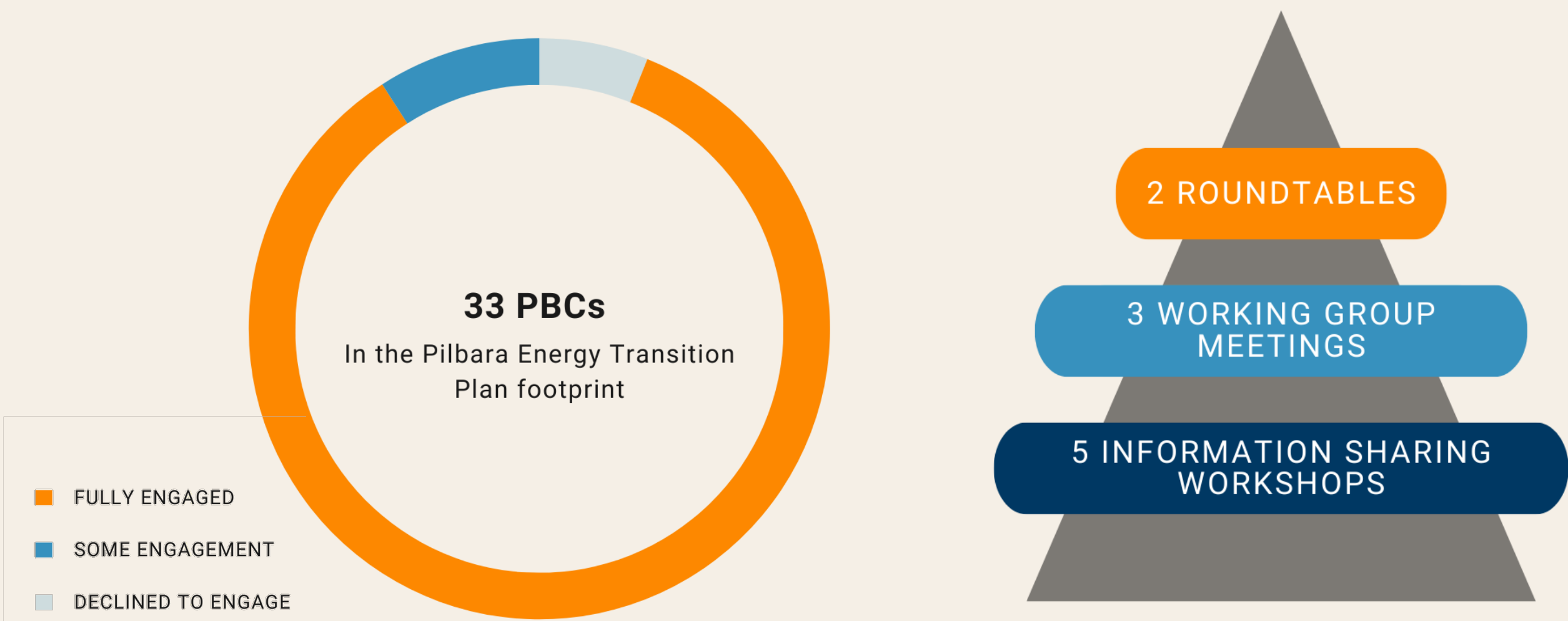
Pilbara Energy Transition footprint

33 Traditional Owner Groups impacted by the Pilbara Energy Transition



Engagement with Traditional Owner Groups

Government is engaging with Aboriginal communities directly and indirectly impacted by the Pilbara Energy Transition.



Ongoing engagement through the Pilbara Energy Transition Aboriginal Working Group – the pathway for Traditional Owner voices to be heard on the Pilbara Energy Transition



● About the PRT Aboriginal Working Group

Government is committed to working with Traditional Owners and their representatives in pursuit of our shared goal

“...to support Aboriginal people and their communities in and around the Pilbara region to participate in, and benefit from, the Pilbara Energy Transition.”

The Working Group is considering actions under the following work streams:

- Best practice engagement;
- Renewable generation opportunities;
- Land tenure; and
- Regional governance and benefit sharing.

● Current activities for the Working Group

- Developing guidance that seeks to define best practice engagement for energy projects
- Draft benefits sharing advice
 - Benchmarking practices for benefits sharing with Traditional Owners
 - Traditional owner partnership in projects
- Advice on regional benefit sharing being prepared
- Engage DPLH to provide advice to the group on land tenure pathways



Traditional Owner Participation Support Fund



Is open to all Prescribed Bodies Corporate impacted by the Pilbara Energy Transition Plan



Provides up to \$100,000 in grant funding for advice and support relating to renewable energy projects



Is open until 30 June 2025, or until grant funds are fully committed

- \$3 million total funding available.
- So far five grant applications have been approved, with another five in progress. This equates to approx. \$863,000 funding approved or committed.

Next steps

- Engagement on the Pilbara Energy Transition Plan
 - Next PRT Aboriginal Working Group - 16 October 2024 (tentative)
 - Next round of Information Sharing Workshops - Dec 2024
- Capacity Building and Benefits Sharing
 - Finalise benefits sharing advice – Oct 2024
 - Draft TO Agreement Making Guide and supporting materials – Dec 2024
 - TOPS Grants open until 30 June 2025
- Regional benefit sharing for transmission
 - Draft options advice - Oct 2024
- Best practice engagement for energy projects
 - Draft guidance - Dec 2024



• Delivery of the Pilbara Energy Transition Plan

- Land tenure: Matt Darcey, Assistant Director General, Land Use Management and Terri Gartside, Project Manager, Land Use Management, DPLH
- Electricity modelling: Chris McKay, General Manager, Pilbara Energy Transition, EPWA
- Regulatory evolution: Kathryn Barrie, Director, Strategic Energy Policy, EPWA

● Land Tenure Landscape Pilbara

- Land tenure in the Pilbara can be a very challenging landscape
- Key is working together and relationship making
- Important to have transmission and generation on Land Administration Act tenure
- DPLH working closely with Energy Policy WA

● Pilbara Energy Transition Team

- The team is specifically funded within DPLH to work with Energy Policy WA and provide bespoke land tenure advice to deliver the Pilbara Energy Transition Plan
- Four staff members in the team, recruitment underway for two more
- Currently developing tenure model for transmission with EPWA, to align with the proposed CorridorCo structure
- Providing land tenure advice to key stakeholders

• Any questions?

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Project Manager

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PET Team email

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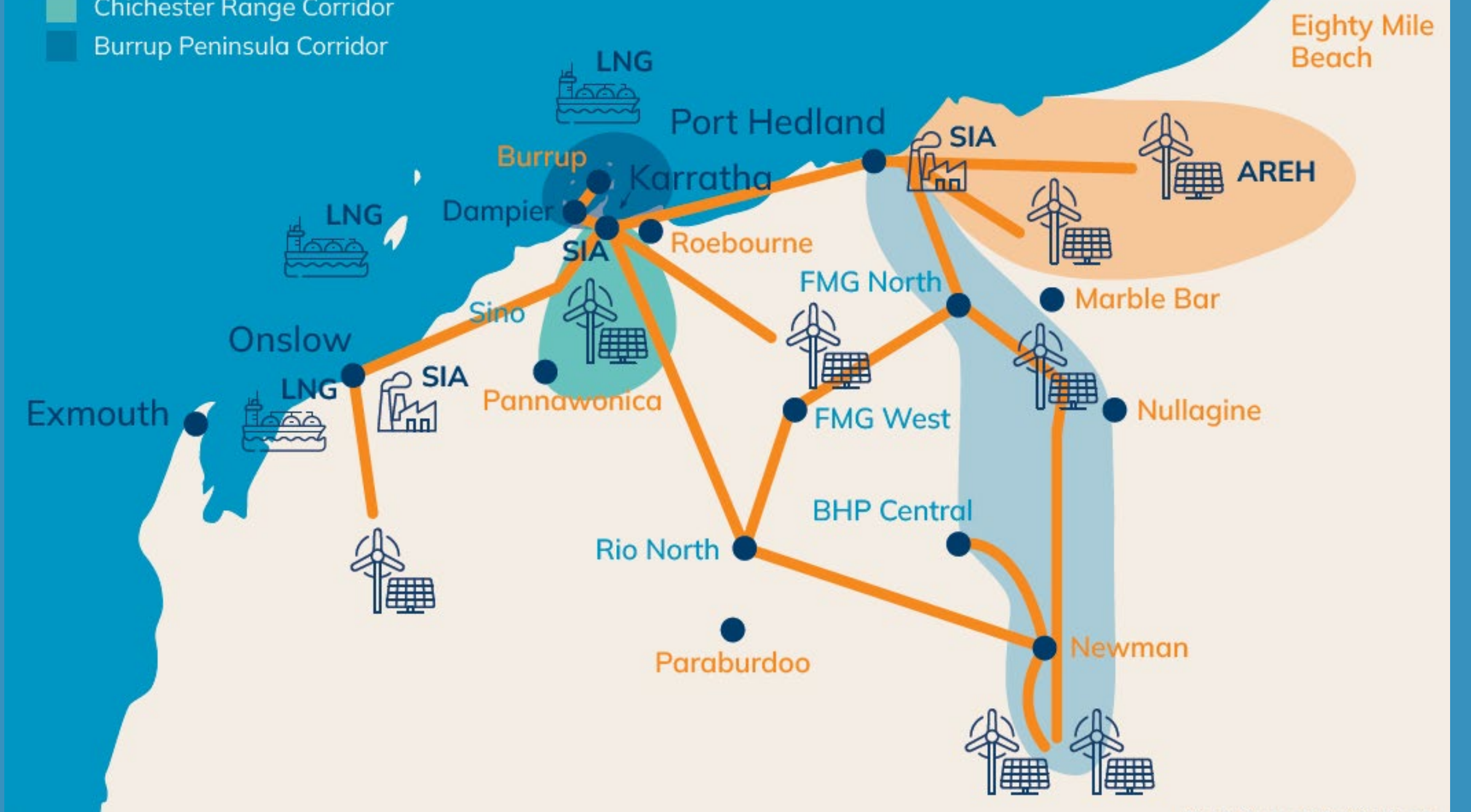
Electricity Modelling

Priority Transmission Corridors

- The plan is to build a system which will meet the needs of the Pilbara today and in the future by creating new 'common use' transmission infrastructure.
- This will give the region greater access to diverse renewable energy sources, support reliability for industrial loads such as mining, and reduce the Pilbara's overall environmental impact.

Pilbara Energy Transition network modelling

- Hamersley Range Corridor
- Great Sandy Desert Corridor
- Chichester Range Corridor
- Burrup Peninsula Corridor



Modelling insights

Expected approach to accessing renewable energy – 2030 a key date

Now – 2030

Miners will access solar from existing mining tenure near operations.

2027 +

Miners will seek access to high quality wind to complement solar to reach targets.

From 2030+

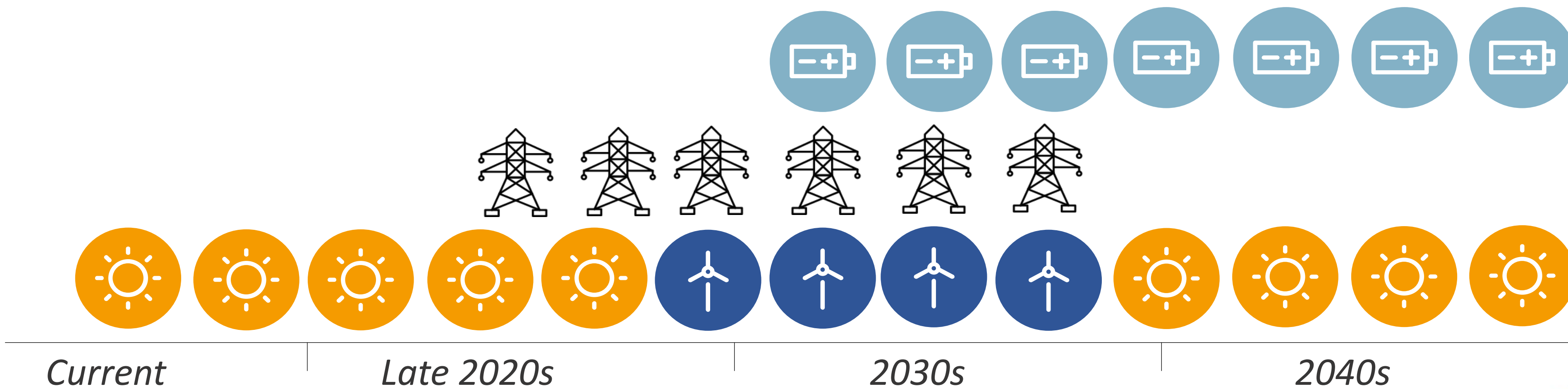
New loads at the coast will seek firmed renewable energy from RGHs.

2032+

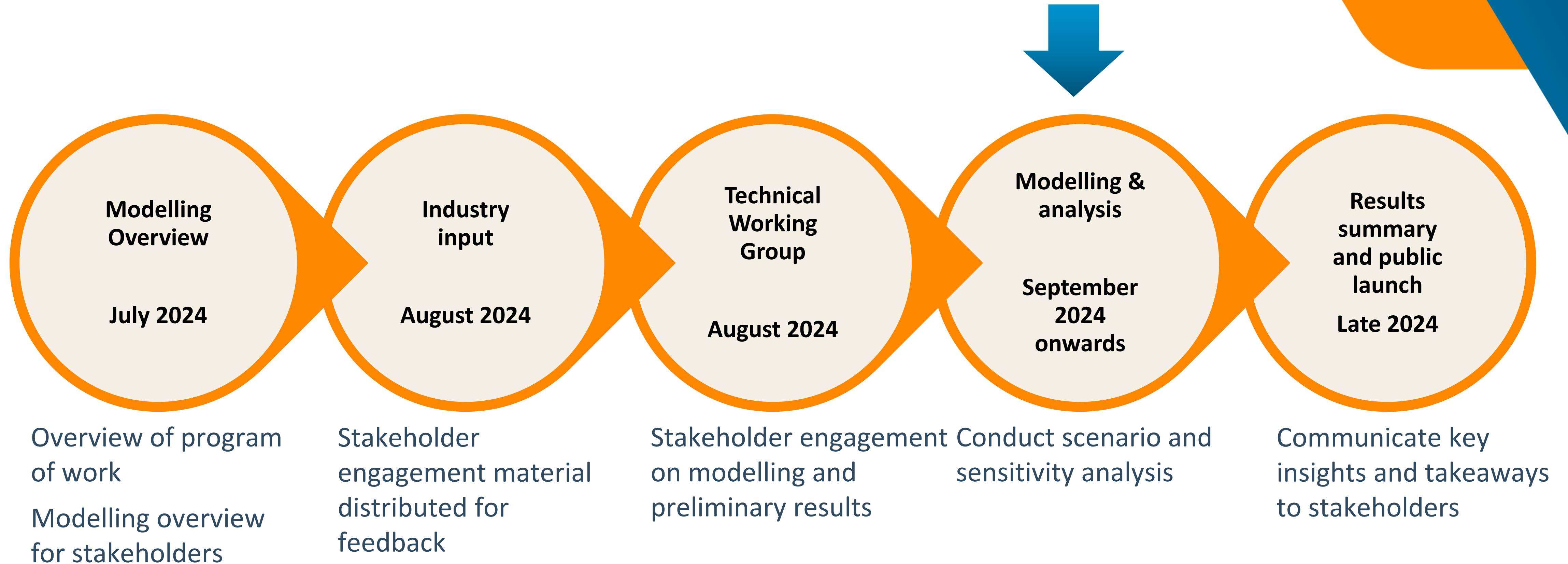
Once transmission to high quality wind is developed, more solar will be developed at RGHs.

2035+

Storage will be added to firm VRE.



● Modelling Workstream Timelines

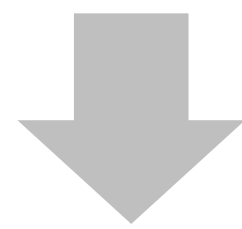


Regulatory evolution

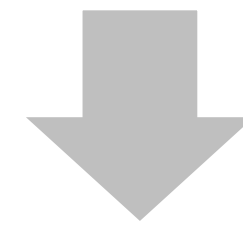
Getting it right builds confidence for:

- Access seekers (new loads and generators)
- Customers
- Investors

Without becoming too heavy handed



Evolution of Pilbara
Networks Rules



Evolution of Pilbara
Networks Access Code



● Pilbara Networks Rules (PNR) evolution

PNR review

- Consider if fit for purpose in low carbon future
- In conjunction with Pilbara Advisory Committee (PAC)
- PAC formed a working group to progress

Modelling exercise

- Completed in July 2024
- Potential efficiencies of 20 to 30% in generation capex savings from increased integration

Design initiatives

- 23 design initiatives relating to PNR
- 34 issues relating to HTR
- To facilitate renewables entering system and encourage sharing of resources

Consultation Paper

- Working group developing options
- Consultation paper to be released in December for two month period
- Implementation Plan Q1 2025

Pilbara Network Access Code (PNAC) evolution

Current thinking

Third party access

- Transmission lines which form part of the core meshed interconnected system will be 'covered'.
- Early transmission projects will be required to opt in to regulation and not opt out.

Contracting for access

- Under current arrangements, access contracts are negotiated between the NSP and access seeker. Failing agreement, parties may arbitrate.
- No proposal to change.

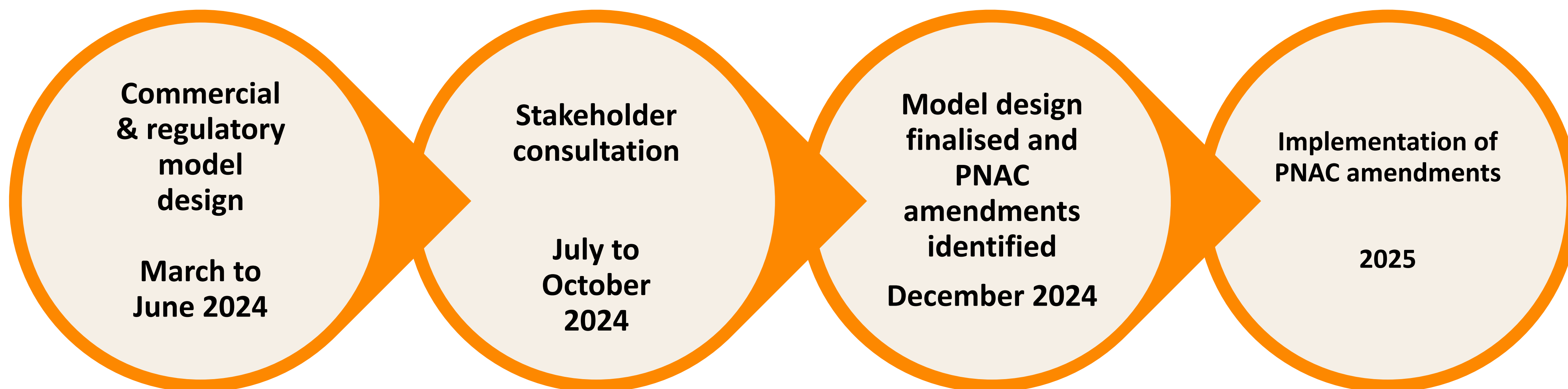
Foundation contracts/users

- The evolving regime must balance competing objectives.
- Intend to develop a regime that prioritises reliability for foundation customers while ensuring access seekers have confidence in their ability to connect.

Access pricing

- Under current arrangements, each NSP may design its own revenue and tariff methodology within the bounds set out in the PNAC. No proposal to change.
- But may introduce faster and more effective accountability measures.

PNAC evolution timeline



Through ILC and via one-on-one targeted stakeholder meetings

Including public consultation process as required by *Electricity Industry Act 2004*

● Question and Answers

Facilitated by Jai Thomas, Coordinator of Energy



Closing remarks

Hon Reece Whitby MLA, Minister for Energy



Thank you

For additional information, contact
Energy Policy WA on:
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