The Asia Renewable Energy Hub
9GW  $20b

Stage 1: 3GW
2GW wind + 1GW solar + Transmission network through the Pilbara region
Capex ~A$5B

Stage 2: 6GW
4GW wind + 2GW solar
Subsea cable to Jakarta (& Singapore?)
Capex ~A$15B
RENEWABLE ENERGY AT OIL AND GAS SCALE
Unlock large scale renewable energy using HVDC, wind, solar, and batteries

Largest Wind/Solar Hybrid Project In the World
9,000 MW, 33 TWh pa

Low Cost Power
Lowest cost energy in the region

HVDC – technology advance
Proven method for long distance transmission. <6% loss over 2,000km.

Significant Value Creation For Australia
Over A$1.5B in annual export revenue, and over A$16B in value expected to be spent in Australia over the Project lifetime.
12 month feasibility study
COMPLEMENTARY WIND AND SOLAR RESOURCES

Wind Resources

- High
- Low

Solar Resources

- High
- Low
CURRENT PROJECT LAYOUT

1,250 wind turbines and up to 3GW of solar panel arrays.
HIGH QUALITY RENEWABLES

Wind / Solar / Battery Hybrid is Better for Grid Integration

- Relatively consistent output over the year:
  - 8.2m/s wind speed
  - 2450 KWh/m²
- Batteries integrated - optimizing transmission infrastructure and power quality, smoothing bumps and delivering nearly 24/7 renewables.
OUR CONSORTIUM
World Class Partners

InterContinental Energy
Global developer of similar large scale projects

Vestas
World’s largest wind turbine manufacturer

cwp
Successful Australian wind developer

PRYSMIAN
World’s largest subsea cable manufacturing company

SWIRE PACIFIC OFFSHORE
Major offshore contracting and installation company

Australian National University
Australian national research institution
EXPORT CABLE ROUTE

- 2 x 1,650MW capacity cables from Australia to Jakarta
- Possible 800MW cable from Jakarta to Singapore

- 3.3GW transmission capacity
- <9% loss over 3,000km
TRADITIONAL OWNERS

Nearly three years working together with Nyangumarta people

- Bi-annual consultations
- Site clearance work prior to deploying research equipment
- Rangers worked with our environmental consultants
- Indigenous Land Use Agreement (ILUA) negotiations have formally commenced
- ANU contributing research capability to implement best practice
ANU INTERIM GRAND CHALLENGES RESEARCH

6 Interim Grand Challenges projects currently underway

Project 1  Best practice Indigenous and community engagement for renewable energy projects
Project 2  Institutions and policies for renewables and storage in Indonesia and India
Project 3  International legal and policy frameworks to manage cross-border trade in electricity and renewable energy
Project 4  Economic, policy and technical challenges for exporting electricity
Project 5  Economic, policy and technical challenges for exporting renewable energy refined metals and products
Project 6  Economic, policy and technical challenges for exporting hydrogen and hydrogen vectors
PROJECT TIMELINE
Development Started in 2014

2019
To the Pilbara

Development

2021

Financial Close

Pre-Construction

Construction

2023

To SE Asia

Development

Financial Close

Pre-Construction, Supply Chain Buildout

Cable Lay and Construction

2025

Operation

2027

Operation
DIRECT CONSTRUCTION AND MANUFACTURING OPPORTUNITIES

Up to 3,000 Direct Workers over 4 Year+ Period
DIRECT OPERATIONAL OPPORTUNITIES

Up to 400 Direct Workers over 60 Year+ Period
Thank you

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