

# Coolimba Power Project

Mid West Resources Forum

July 2009



# Overview



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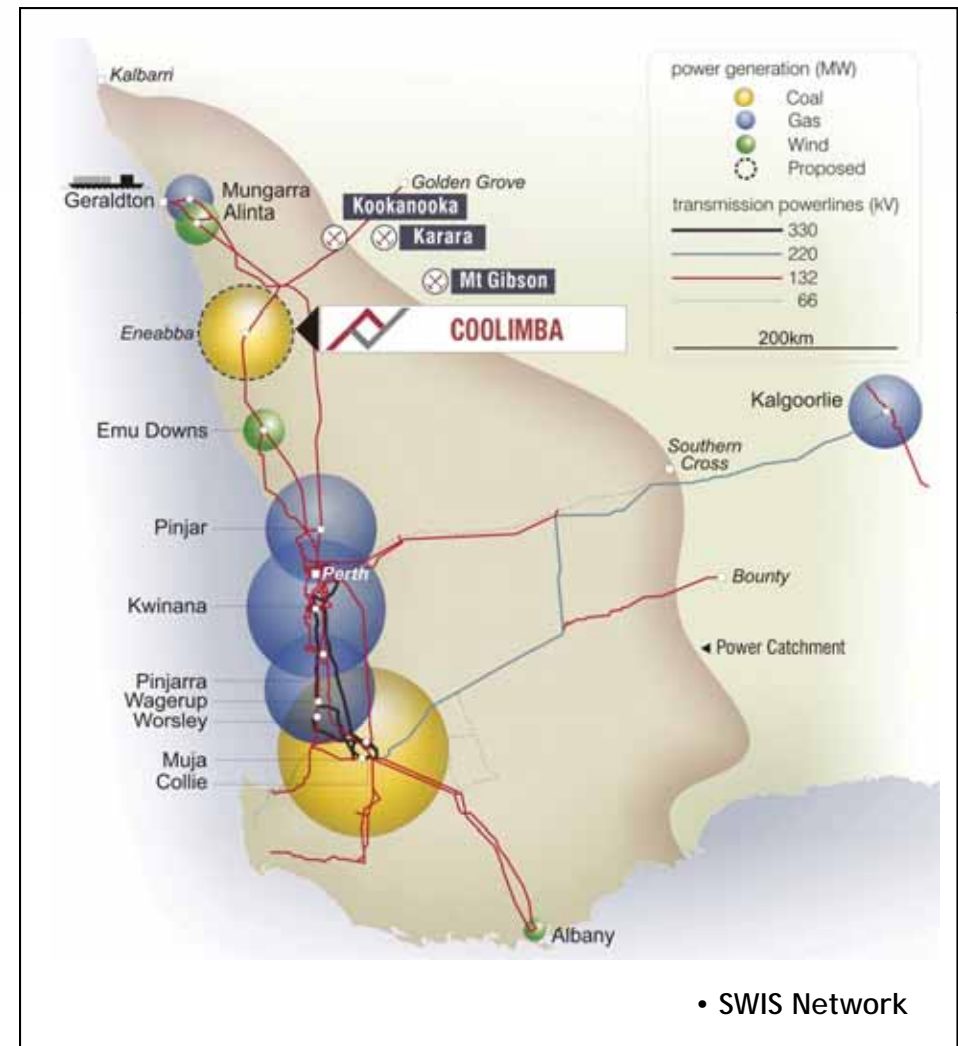
# About Coolimba Power

- Coolimba is a 400-450MW base load coal-fired power station project, located the Mid West region of WA, 20km south of Eneabba.
- Approval is also being obtained for 360MW gas-fired generation creating a Mid West energy hub.
- Connect to the new 330kV transmission line, providing better utilisation of its capacity and balancing the network.
- A new key energy source for WA – located in the heart of the Mid West.
- Best environmentally performing coal-fired power station in Western Australia.
- Best opportunity in Australia for a commercial carbon capture and storage project



# South west energy security

- Energy security is a big issue in the south west of WA as highlighted by the Varanus Island incident.
- Only Collie currently supplies coal for power generation.
- Gas mainly supplied from north west by DBNGP.
- No major generation to the north of Perth – where the growth is likely to be.
- Coolimba offers diversity in fuel and location – real energy security.
- Coolimba has the potential and location to become WA's largest gas-fired generation centre.



# Community Benefits



## Mid West Region Economic Development

Coolimba will boost economic development in the region. Coolimba will provide the following community gains:

- Provide energy security to the Mid West region and underpin power supplies to its resource projects and communities.
- Contribute at least 600 jobs during construction.
- In the long term, it will host over 100 permanent jobs for locally housed employees when commercial operation commences in 2013/14.
- Unlock the potential of the Mid West region – provide certainty and long term stability.
- Inject investment into the region, attracting skilled workforce from local towns and regional centres.
- Committed to maximising local supplies and encouraging local business.

# Coolimba: a new environmental benchmark



## A first for Western Australia.

Coolimba will set new benchmarks in environmental management for both the power station and the mine.

### **Carbon Capture and Storage Ready**

- Designed so that 90% of future carbon emissions can be captured and stored.

### **Support Additional Wind Projects**

- Coolimba will assist additional wind farms to connect to the network in the Mid West.

### **Water Conservation**

- Power station cooling water sourced from dewatering the mine.

### **Current Best Practice Low Emission Technology**

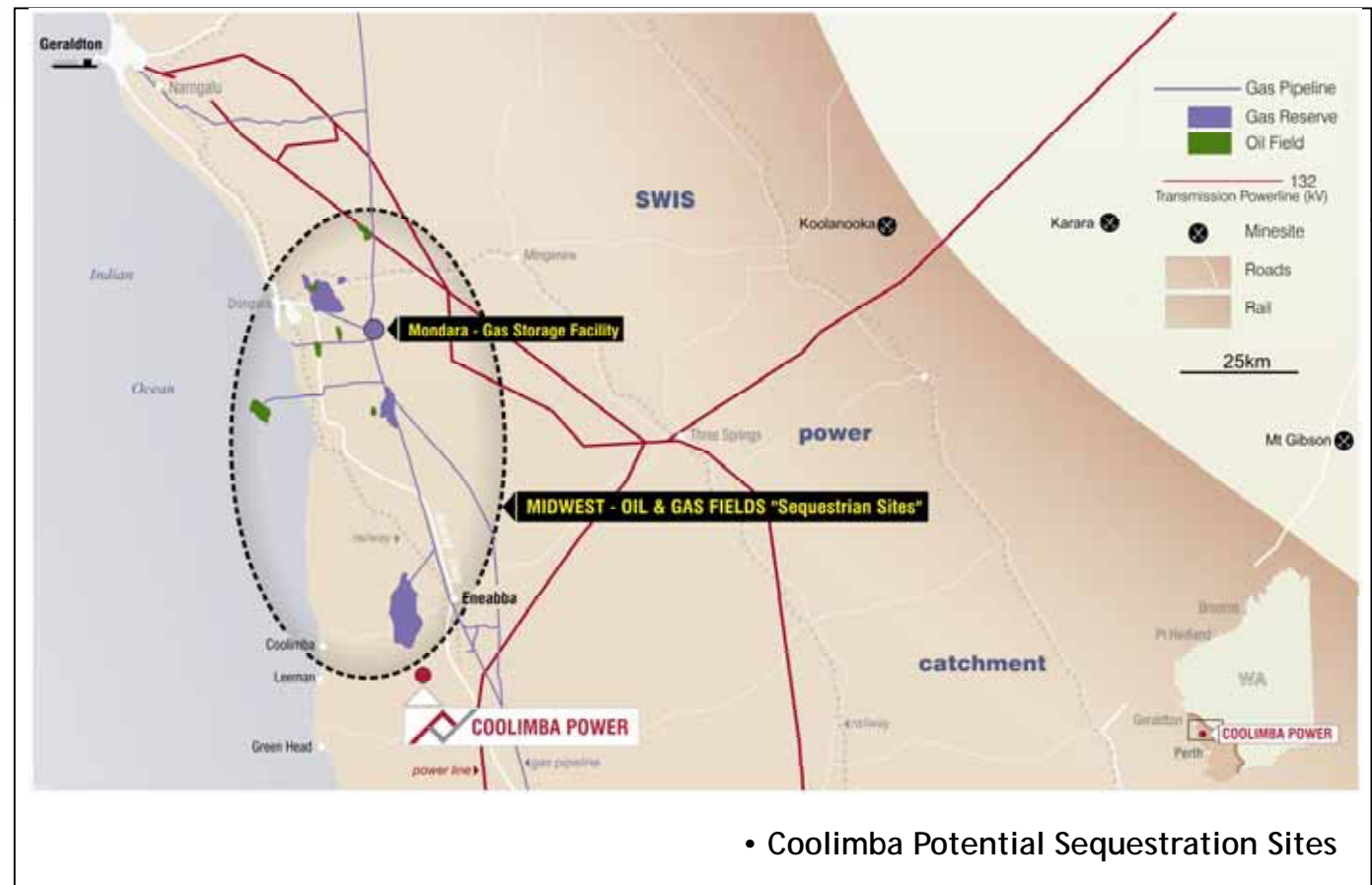
- Proven circulating fluidised bed technology for removing sulphur dioxide and NOx.

### **Low Impact Mining**

- Minimal land clearing - mainly on existing farm land, and back-fill mining technique.

# Storing CO2 - a world leader

- Aviva and Mid West oil and gas company AWE engaged leading researcher CO2CRC to locate prospective CO<sub>2</sub> storage sites – especially depleted gas reservoirs in North Perth Basin.
- The Federal Government announced \$2B in funding for demonstration CCS projects



# Project milestones



## Coolimba and Central West Coal

The PER documents for both Coolimba and the Central West Coal projects were released for an 8-week public consultation program, closing on 23 June 2009. Aviva is now addressing comments in those submissions prior to the EPA issuing its Bulletin.

- **2009** – environmental approval, off-take agreements finalised, network connection approved, EPC supplier identified, CCS feasibility studies (storage mapping and CCS pre-engineering), conditional certification by IMO and financial investment decision.
- **2010** – EPC finalised, all land and mining titles secured, financing completed, Notice to Proceed to EPC contractor, IMO certification.
- **2011 – 2013** – construction of the power station and mine – note: commitment to use “Project Connect” to maximise local content.
- **2013/14** – Coolimba Power Station operational.
- **2013 – 2020** – testing of feasibility for conversion to CCS for Coolimba, and consideration of demonstration project – participation in CCS Flagship Programme

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