



Western Downs Major Projects 2010

An Overview

Coal projects and investment opportunities - Surat Basin



Where is the **Surat Basin?**

It covers an area stretching from Roma in the west, to Taroom in the north and east to Toowoomba.

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What are the key drivers of growth?

Thermal Coal and Coal Seam Gas









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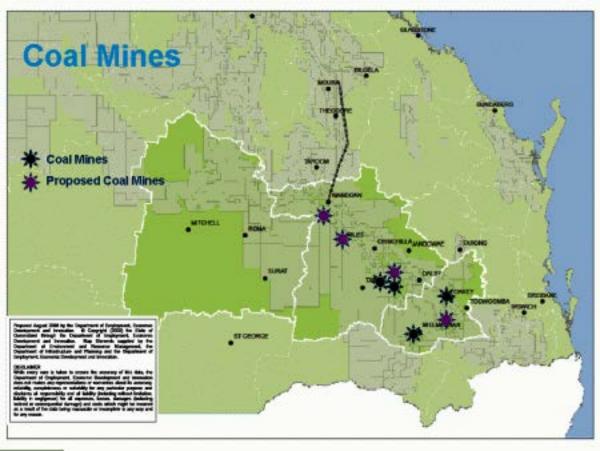


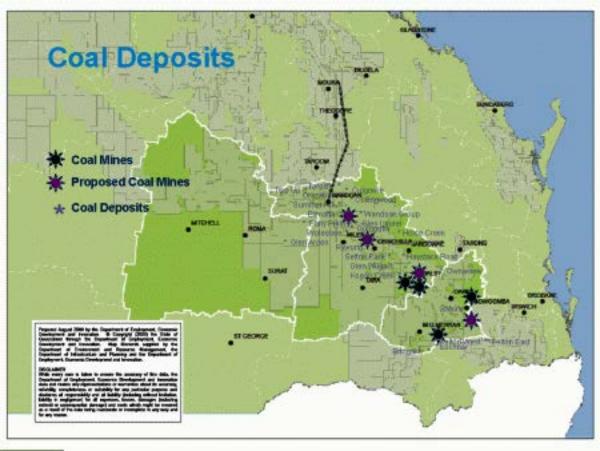
- The Surat Basin contains over 6.3 billion tonnes of thermal coal
- It is used for both export sales and local power generation.
- Upgrades and developments of road, rail and port infrastructure will be necessary to enable increased export sales.
- By converting coal to syngas, other products such as diesel, fertiliser and plastics can also be produced.











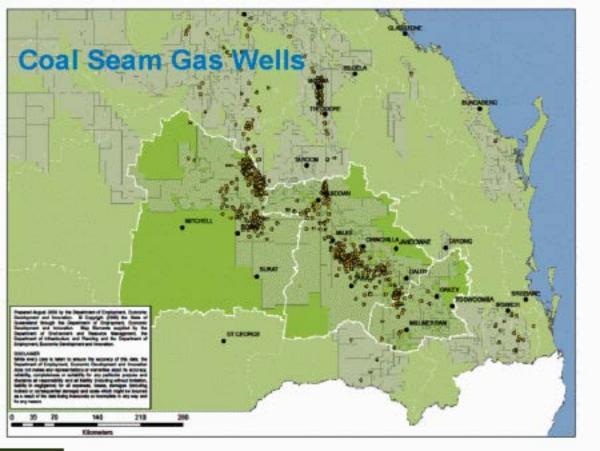


- Coal seam gas is a form of natural gas (methane) that is extracted from underground coal deposits.
- · Demand for Coal Seam Gas is driven by:
 - power generation
 - replacement of natural gas from the Cooper-Eromanga basin
 - demand from southern markets (NSW & SA)
 - and global demand.
- The supply of gas to global markets is subject to the development of LNG facilities at Gladstone.











Power stations...

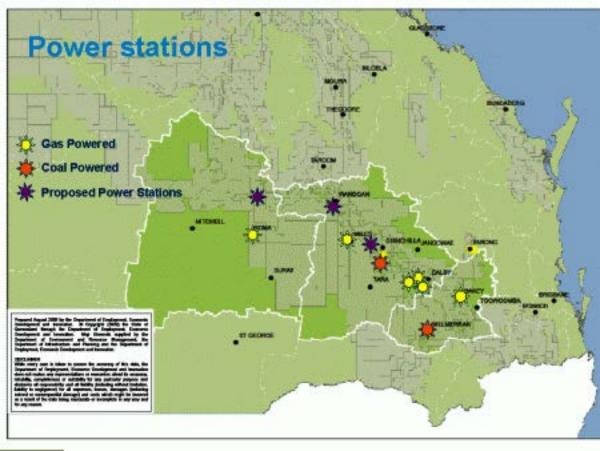
Coal

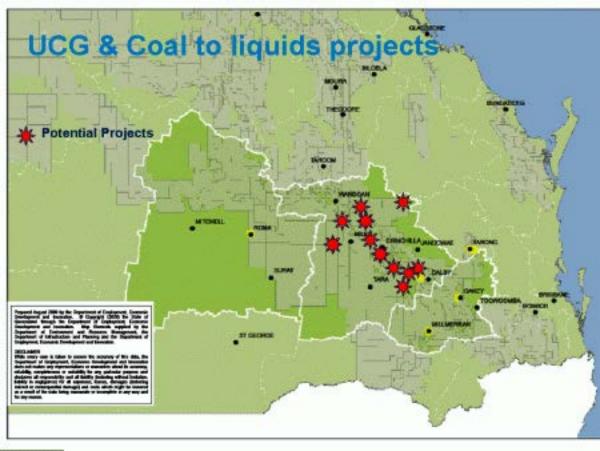
- Millmerran Intergen 880 MVV
- Tarong Tarong Energy 1400 MW
- Tarong North Tarong Energy 450 MW
- Kogan Creek CS Energy 750 MW

Gas

- Braemar NewGen Power 450 MW
- Braemar Origin Energy 630 MW
- Spring Gully Origin 1000 MW
- Oakey Oakey Power Holdings 300 MW
- Roma Origin 70 MW
- Condamine Qld Gas 140 MW

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- · LNG plants: Curtis Island, Gladstone
- Port infrastructure: Wiggins Island (north of Gladstone).
- Water: Bi product of CSM gas extraction- 166,000 ML pa.
- Rail: Southern inland missing link and other rail line upgrades.
- Roads: Upgrades are needed for efficient transportation.







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- · Power stations:
 - CS Energy, Origin, QGC and Newgen Power.
- · Coal:

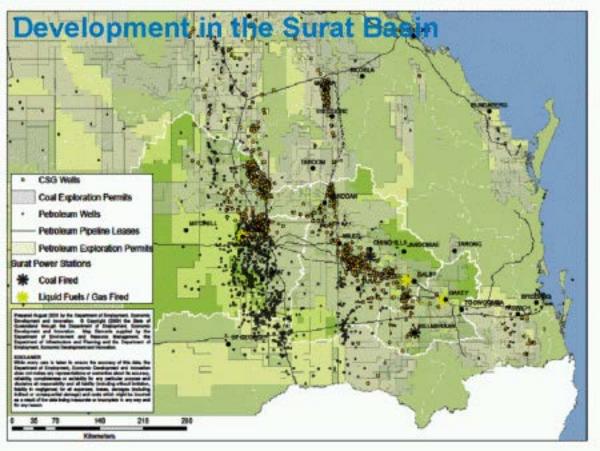
Xstrata, Anglo, New Hope, Peabody, Cockatoo, Tarong Energy.

- Coal Seam Gas:
 - Qld Gas/British Gas, Origin/Conoco Phillips, Santos/Petronas, Arrow/Shell
- Coal Gasification:

Linc Energy, Metex Resources and Cougar Energy

- Missing link Rail:
 - Qld Rail, Xstrata, Anglo and 2 private companies.
- · Drilling services:

Easternwell, Lucas Mitchell, Atlas Drilling





- Exploration & drilling services
- Earth moving contractors
- Pipeline construction
- Welding & fabrication services
- Hydraulics & auxiliary services
- Electrical services
- Transport & logistics
- Equipment repair & maintenance
- Sandblasting, painting & galvanising
 - Hospitality, cleaning & catering

- Engineering & surveying services
- Water treatment
- Scientific analysis services
- Project management services
- Security & safety system providers
- Accounting & administration
- Training & education
- Residential & commercial construction
- Health & other social services





The Challenges ...

- Development of coordinated infrastructure (roads, rail, water and gas)
- Managing social services & community infrastructure
- Up-skilling local industry to service and supply energy development.
- Attraction of new business and industries
- Attracting skilled and non skilled labour



Key messages to take home...

Major international companies are currently investing \$140 Billion in our region