Olympic Dam Expansion

Media tour
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Agenda

• Olympic Dam – expansion potential
• Major infrastructure items
• Schedule
Olympic Dam – expansion potential

- Pre-feasibility Study underway
- Open-pit preferred mining method
- Approximately doubling copper and trebling uranium capacity
- Investment – up to US$5 billion
Major Infrastructure - water

- Olympic Dam current consumption – 32 Ml/d from Great Artesian Basin

- Supply options studied include –
  - Third borefield in Great Artesian Basin
  - Seawater desalination
  - A local regional aquifer borefield and/or
  - Further on-site re-cycling
Major Infrastructure - energy

• Current 275 kV powerline from Port Augusta – av. load 105-115 MW

• Av. load for expansion ~ 400 MW

• Options
  - additional transmission line(s) from State grid
  - and/or on-site gas fired generation
Major Infrastructure - Transport

- Materials transported to and from Olympic Dam by road
- Construction of rail link between Pimba and Olympic Dam under consideration
- For expansion, ~ 2.2 mtpa of materials to be carried
- Upgrading of port facilities
- Relocation of Olympic Dam Airport
Major Infrastructure – township development

- Roxby Downs – current population 4,000

- Increase to ~9,000 after expansion – housing, community facilities (school/health/recreational)

- Construction workforce for 3-4 years – average +3,000, requiring additional camp accommodation
Timeframe

- Pre-Feasibility tollgate – end 2007
  - Planning and preliminary engineering
- Feasibility tollgate – early 2009
  - Detailed engineering
  - Contracts for construction
  - Possibly some early site works
- Execution phase – 2009-2013
  - Construction
  - Construction support
  - Pre-operations
- Operation of Expanded Facilities – 2013+