



Above Water Treatment plant

Arrow Energy: Water Treatment Facility

Arrow Energy operates the Moranbah Gas Processing Facility in Queensland's Bowen Basin region. It is one of the largest operating coal seam gas (CSG) projects in Australia and the gas is used in electricity generation by Moranbah and Townsville Power Stations and by mineral refining facilities in North Queensland.

Ausenco Rylson provided Consulting Services for Arrow Energy and delivered Operational Expenditure (OPEX) Budgets and Critical Spares recommendations for the Water Treatment Facility at Moranbah.

Utilising Ausenco Rylson's proprietary software, Rylson8™, the existing plant hierarchy and maintenance strategy was documented. Material and labour resource requirements were identified and an activity based OPEX budget developed taking account of current component age.

On completion of the maintenance strategy a risk based critical spares assessment was completed to

determine the recommended holding for all critical spares over the asset lifecycle.

This was achieved by building strong relationships with suppliers and ensuring accurate lead times, costs and location data was captured in addition to the cost and probability of repair against the business downtime cost.

Achievements

The project delivered the following benefits:

- Complete alignment between the existing CMMS Asset Register and Rylson8™
- Fully documented maintenance strategies
- Activity based OPEX budgets for the life of the facility
- Forecast Materials Usage Plans for the life of the facility
- Forecast Labour profiles (FTE) required to deliver the strategy
- Critical Spares report recommending holding levels and costs for the life of the facility based on criticality and risk to the business.

Project
 OPEX and Critical Spares Analysis

Location
 Moranbah, Queensland, Australia

Business line
 Optimisation

Timeframe
 2013

Contract type
 Optimise

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