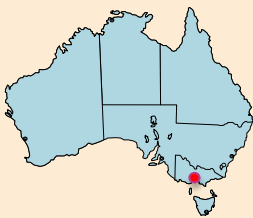


Oil & Gas, Otway, Victoria

Origin Energy: 2016 Shutdown Campaign



SHUTDOWN SERVICES, CATALYST HANDLING, CHEMICAL CLEANING



Otway, Victoria
Australia

CONTRACT SCOPE

Site: Otway Onshore Processing
Scope: Shutdown Campaign and Vessel Cleaning

CONTRACT DATA

Duration: 6 weeks

ACTIVITY SECTOR

Priority segment
Oil & Gas

EXPERTISE

Chemical Cleaning, Industrial Cleaning, Catalyst Handling, Bundle Pulling, Vessel Cleaning

The challenge

Origin Energy (Origin) is one of Australia's leading integrated energy companies. Origin has diverse operations spanning across the energy supply chain: from gas exploration and production to power generation and energy retailing. In Victoria, production from the Otway Gas Plant and Lang Lang (BassGas) processing plant is equivalent to 30% of the state's domestic gas demand.

Veolia's Solution

Minimising Downtime

In order to keep its gas plant operations in an optimal state, Origin needed an environmentally focused industrial services provider with local expertise, experience and capabilities in the delivery of large scale onshore and offshore shutdown projects. Minimising downtime during a major shutdown campaign is a primary concern for Origin. Reducing downtime through better shutdown planning, technology and practices mean operational assets are utilised for longer periods of time.

Complex Vessels – Slug Catcher Cleaning

During the 2016 shutdown at the Otway Gas Plant, Veolia was engaged by Origin to clean their slug catchers, which represented the most dangerous part of the plant. The slug catchers were also the most contaminated section of the plant as they had never been cleaned. Adding to the challenge, Veolia only had a 3 week shutdown period to develop and deliver the cleaning operation before the plant was brought back online.

Innovative technology to reduce downtime

Safety Interaction: No recordable injuries

Customised solution to suit specific needs



PLANET

Reducing environmental footprint

REGIONS AND CITIES

Supporting the customers environmental objectives.

Meeting stringent environmental regulatory obligations.



WOMEN & MEN

Management and human capital:
Comprehensive training and development of personnel



External Use

Update: 2016

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Created by:

Business Development Victoria

Current contract: ● No – for ongoing shutdown campaigns

Tailor made solution

Veolia's industrial services capability in Victoria consulted with local experienced technicians and with the company's expertise overseas to develop a tailor-made solution to clean Origin's slug catchers. Using a combination of chemical cleaning and other specialised equipment, Veolia was able to successfully empty and clean the slug catchers well within the shutdown period time. Moreover, the shutdown has improved operating efficiencies of the heat exchangers and decreased the frequency of shutdowns required at the gas plant.

A long term partnership

Since 2009, Veolia together with its alliance partner Dialog (a specialist in catalyst handling) have successfully delivered multiple shutdowns to Origin Energy's Victorian assets.

In 2016, Veolia and Dialog delivered a 6 week shutdown program at the Otway plant including the following specialised services:

- High-Pressure Water Cleaning up to 3,000 bar
- Chemical Cleaning
 - Vapour phase / Steaming
 - Liquid phase
- Bundle pulling
- Tank cleaning without confined space entry
- Catalyst handling

The benefits for our client

Increase productivity

By emptying and cleaning the slug catchers, Veolia enhanced the productivity of the downstream process equipment as the slug catchers are now performing to their full capacity. With the slug catchers performing well, Origin can now allow more time between shutdowns, meaning less downtime for the plant.

Local expertise, International knowledge

Using Veolia's services enabled Origin to have access to both local expertise and international knowledge. Origin had access to Veolia's worldwide centre of excellence for chemical cleaning with resources from the U.K and America involved to provide a customized solution to clean Origin's slug catchers.

Reduced downtime

Origin had minimal disruption to their operations with vessels returned to service earlier than scheduled. Veolia thoroughly prepared and planned the shutdown activities and effectively communicated with contractors in order to minimise downtime on site.

Safety practices

Veolia has performed all shutdown activities since 2009 without any recordable injuries or environmental incidents. To clean Origin's tanks, Veolia opted for a methodology avoiding confined space entry to optimise efficiency without taking safety risks.