

POWER – SIMPLE CYCLE CATALYST SYSTEMS

EMISSIONS CONTROL GUARANTEE



A CANADIAN COMPANY A LEGACY OF TRUST

As a Canadian company we understand the trust our clients place with us. It is something that is earned and we never lose sight of.

INNOVA Global was selected by Siemens to design, fabricate and install a CO \ NO_x reduction system into an existing RB211 system. The project required that Innova model the existing gas turbine & waste heat boiler system to determine the optimal location to locate the new distribution grids, CO catalyst, ammonia injection and NO_x catalyst components.

CLIENT: SIEMENS UK
PROJECT: SPIRIT ENERGY (CENTRICA) CO \ NO_x REDUCTION RETROFIT
LOCATION: BARROW IN FURNESS, UK

SCOPE OF WORK

Innova designed and fabricated the entire system in the UK to minimise risk to this project. Innova's hot catalyst system scope consisted of:

- CFD and Physical Flow Modelling
- CO Reduction System
- Ammonia Vaporization System
- NO_x Reduction System
- CEMs Monitoring Probes
- CEMs Analyser System
- Urea Forwarding Skid
- Site Demolition and Installation
- Commissioning

GAS TURBINE PERFORMANCE

- Operating Conditions – 50% to 100% load
- Mass Flow – 320,400 kg/hr
- Bulk Temperature – 500 °C Design
- NO_x Emissions – 140 mg/Nm³
- CO Emissions – 300 mg/Nm³

STACK EMISSION REQUIREMENTS

- NO_x Emissions – 35 mg/Nm³
- CO Emissions – 40 to 60 mg/Nm³
- NH₃ Slip – 3 mg/Nm³

