

15 MWE MICROGRID CONTROLLER LINKED OIL PLATFORMS OIL AND NATURAL GAS CORPORATION LTD. INDIA

OWNER
Oil and Natural Gas Corporation Ltd. India

LOCATION
Northwest of Mumbai, India

PRODUCT
Microgrid Controller

CUSTOMER VALUE
Integrated Control of Two Platforms

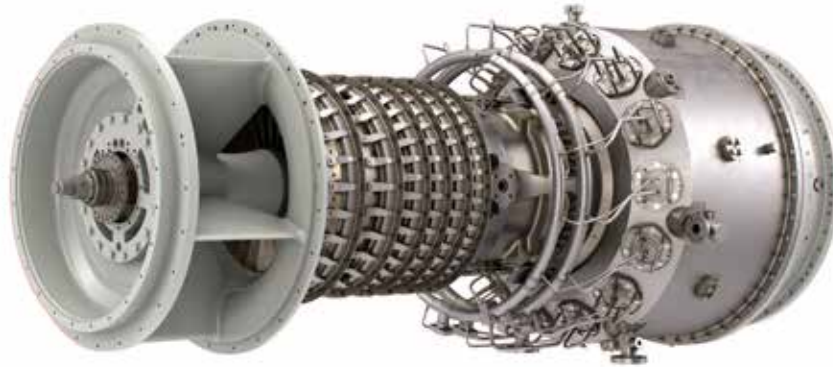
When ONGC decided to link two existing oil platforms with a 300 meter bridge, Solar made the complex electrical connection without interrupting power for platform operations.

Each platform had its own power station consisting of Solar® gas turbine generators and control panels. By installing a slave panel in parallel with an existing control panel, Solar was able to pre-wire the connection, energize the slave panel, and then energize the connection without cutting power to the platforms.

A new Solar microgrid controller provides integrated control of the unified system.

Solar Turbines
A Caterpillar Company

15 MWe Microgrid Controller - Linked Oil Platforms



PLANT DATA

Master Control of Two Linked Platforms

Solar Gas Turbine Generator Sets on Each Platform

Synchronization of Split Bus Via Two Breakers

Start Permissives for 16 Large Loads

Automatic Load Shedding for 60 Loads

OUR PRODUCTS & SERVICES

Microgrid Controller

Innovative Design and Hardware Configurations

Centaur[®] 40 and Taurus[™] 60 Gas Turbines

Microgrid Controller Programming

Installation, Startup Assistance and Testing

**ELECTRICALLY LINKED TWO PLATFORMS
WITHOUT POWER OUTAGE**

AUTOMATIC LOAD SHEDDING

SYNCHRONIZE SPLIT BUS SYSTEM

COST EFFICIENT SOLUTION

The microgrid controller allows the power stations on each platform to operate independently or in parallel with one station backing up the other. This system ensures adequate spinning reserves and includes automatic load shedding per a customer-defined priority list. Starting permissives are included for large loads such as gas compressors and superheaters. Synchronization between the two systems can be manual or automatic.

The microgrid controller can easily accommodate additional loads, turbines and engines in the future.

Solar Turbines Incorporated

Tel: +1 619 544 5352

Mail: infocorp@solarturbines.com Web: www.solarturbines.com

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