

GE Consumer & Industrial

1. Description of the project

Country: Russia
Localisation: Sakhalin Island
Customer: GE Oil&Gas-Nuovo Pignone
End User: Sakhalin Energy Investments Company Ltd.
Project: Sakhalin LNG (liquefied Natural Gas) Phase 1 & 2
Capacity: Development of two fields: Piltun, primarily an oil field with associated gas, and Lunskeye, predominantly a gas field with associated condensate and an oil rim. Both fields were discovered in the 1980's. Together the fields contain recoverable hydrocarbon volumes of over 1 billion barrels (150 million tonnes) of crude oil and more than 500 billion cubic meters (18 trillion cubic feet) of natural gas. The oil reserves equate to more than one year of crude oil exports from Russia at the current level of around 2.5 million barrels per day while the gas reserves represent nearly five years of Russian gas exports to Europe, or enough to supply current global LNG demand for four years.

2. Requirement of the customer

Provide a Smart Motor Control Centers (MCCs) Solution.
 All loads protection are electronic and all parameters are setting by a supervisor system.
 Be in accordance with SHELL DEP standards.

3. Why a GE solution

High Expertise and experiences.
 Innovative and open solutions (electronic protection relay).
 Cost competitive.

4. Key Technical Features

- 2 panel boards type SEV32-SEK, 16 columns each, arc resistant proof.
- 4 panel boards type SEV32 -SEK, 9 columns each, arc resistant proof.
- accordance with standard SHELL DEP 33.67.01.31.
- Smart MCCs :All panel boards are equipped with EPOSS: "Electronic Protection & Object Control System".
- bus connections are Profibus-DP



Phase 2, Lunskeye Platform

5. General Architecture



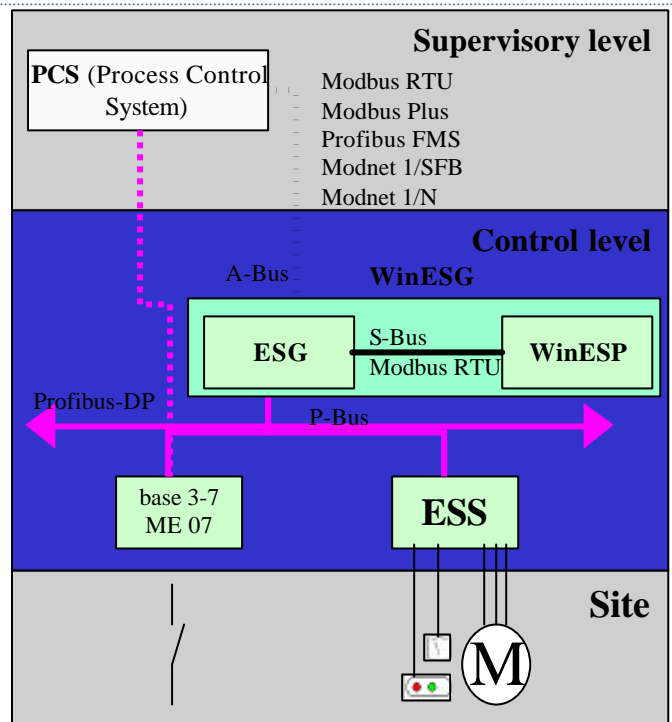
SEV panel board



EPOS



Profibus



GE imagination at work



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