



The Terra Nova Oilfield is the second largest oilfield discovered on the Grand Banks off the Coast of Newfoundland, Canada. Terra Nova will be developed using a steel floating production vessel and the first oil production is scheduled for late 2000.

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The Terra Nova FPSO is being built by Daewoo Heavy Industries Ltd. for Petro Canada. It is 291 meters long and 45.5 meters wide and has an oil storage capacity of 960,000 barrels. The Terra Nova shuttle tanker is being built by Samsung Heavy Industries Ltd. for the Ugland shipping company of Norway.

Terra Nova

- another FPSO

and a Shuttle Tanker

with ABB

Electric

Power Systems on board

The Terra Nova oil field was discovered in 1984. The floating production facility, together with sub-sea wells and gathering systems, will be used for the development of the field. The FPSO will have a tandem offloading system for transfer of crude oil to a shuttle tanker. The offloading system is designed for connection and disconnection to shuttle tankers in up to five meter significant wave heights.

ABB has delivered electric power systems to both the Terra Nova FPSO and shuttle tanker. The systems meet the CSA (Canadian Standard Association) requirements in accordance with ABS class standards.

Electric Power Systems

- Terra Nova FPSO:

- 2 8.125 MVA, 13.8 kV, key service generators
- 2 Generator control panels
- 5 5 MW thruster drives:
 - 7.2 MVA transformers
 - SAMI PWM converters

Electric Power Systems

- Terra Nova Shuttle Tanker:

- 2 Main switchboards 6.6 kV
- 2 Main generators 3750 kVA
- 2 Main generators 2813 kVA
- 2 Two-speed cargo oil pump motors 1770/750 kW, 6.6 kV
- 2 Bow thruster motors 2100 kW, 6.6 kV
- 2 Stern thruster motors 1200 kW, 6.6 kV
- 1 C.O.W. motors, 6.6 kW
- 2 Starting transformers 2100 kW
- 2 Starting transformers 1770 kW

