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Gas to Power

Key Benefits



Economical

Efficient solution with favourable gas price Saves cost and benefits end users Provides higher returns for local participants



Flexible

Facility can be re-deployed to another location



Facility that can be moored near-shore that is not at direct sight from the local community



Eco-Friendly

Environmentally friendly fossil fuel Almost zero PM and Sox Very low Green House Gas emissions.



Security of Supply

Various power generating equipment suitable for gas or liquid fuel operations Providing options for continuous operations



Quick-to-market

Shorter project lead time than conventional land-based power plant



Permitting

Fewer permits requirements than land-based facility.



Low Execution Risk

Limited in-country scope. Facility built and tested in our yard.



Various Solutions Available

Reciprocating Engine Configuration

Capacity range typically: 30MW ~ 150MW

Efficiency of Plant: approx 47%

Gas Turbine Configuration

Capacity range typically: 150MW ~ 600MW

Efficiency of Plant: approx 56%



Reciprocating Engine Power Barge







Demand-driven

Cost-optimized

Quick-to-market



HV Transmission with high degree of automation



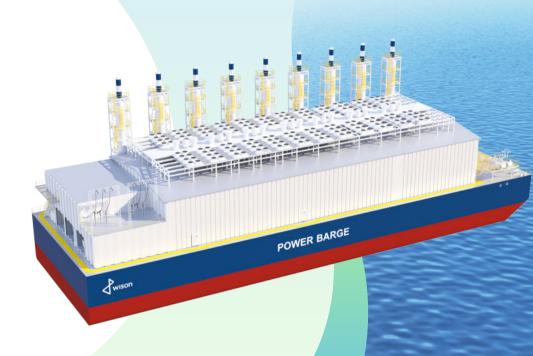
High-efficiency dual-fuel engines provide flexible power output while maintaining low fuel usage



Integrated hull with power plant utilities



Shore-compatible natural gas receiving manifold





Combine Cycle Gas Turbine Power Barge

- Once Through Steam Generators (OTSG)
- Beck House with Central Control Room, Offices
- 2 Steam Turbine Hall
- In Hull Machinery Space with Pumps and Auxiliary Equipment's

- 5 By-Pass Stack (Option)
- 7 Aux. Transformers, Gas Insulated Switchgear(GIS) & Transmission Gantry

Gas Turbines connected to OTSG

Fuel Sources: pipeline system or

re-gassed from an LNG source.



Distributed Energy System (DES)

Distributed Energy System (DES) is a complete technology and management system that integrate multi-energy including renewable energy, energy storage and combined heat and power to form a resilient microgrid system.

DES - an artificial intelligence (AI)-based power management, and control of renewable energy systems (RES) can effectively overcome issues related to integrating variable renewable energy with power system, such as solar and wind forecasting, power demand profile analysis, power system frequency analysis and control, and transient stability assessment and to facilitate generation-to-demand control.

DES provides a breakthrough in integrating power system with multi renewable energy system and diversity energy storage system, and thus improve the applicability, efficiency, reliability, and economic viability of these systems.









Synergy of Renewable and Clean Energy



Accelerate the synergy of energy storage, renewable energy and clean fuel power generation through DES by overcoming the intermittency and fluctuation challenges in renewable energy.

CO₂ Reduction



Optimal sizing of power generation capacity with maximizing the utilization of renewable energy and energy storage.

Improve Power Quality & Stability



The power quality & stability of multi-energy system are improved through optimal power flow algorithm, energy forecasting, system monitoring, control strategies, and grid integration.

Improve Security of Supply



The availability and reliability of power supply is enhanced with integration of multi-energy system and managed under DES.