OIL & GAS INDUSTRY
Wärtsilä provides pre-engineered power generation equipment and mechanical drives systems for pump and compressor drives for the oil and gas industry.
- Gas engines 4100-9000 kW
- Diesel, crude oil or residual fuel oil engines 1000-17,550 kW
- Dual-fuel engines 6300-17,550 kW
Prefabricated and pretested modules guarantee consistent quality and performance and make on-site installation simply a matter of assembling and connecting the modules.

GAS POWER PLANTS
Wärtsilä gas power plants are designed for optimal performance in a wide variety of decentralized power production in both peaking and intermediate applications, giving full output at high altitudes and in hot ambient conditions.
The 4-150 MW plants are based on 4-17 MW engine units operating on natural gas or in dual-fuel mode (natural gas/liquid fuel oil).

OIL POWER PLANTS
Wärtsilä oil power plants range from 1 to 300 MW. High efficiency, low emissions and proven long-term reliability make the plants suitable for stationary and floating baseload, as well as stand-by applications.
The modular design of Wärtsilä oil power plants enables fast-track delivery anywhere in the world. For example, a Wärtsilä 100 MW power plant can be in commercial operation in as little as nine months from order placement.

LIQUID BIOFUEL PLANTS
Liquid biofuel plants operate on vegetable oils, for example palm oil, but also other vegetable oils may be exploited.
Green certificates provided by local authorities according to EU-directives and the Kyoto Protocol, boost the introduction of liquid biofuel-fired plants.
Combined heat and power generation with no sulphur or CO₂ emissions make the Wärtsilä solution for green energy increasingly attractive.

COMBINED HEAT & POWER
Wärtsilä’s 4-100 MW combined heat and power (CHP) plants incorporate both power and heat generation. Wärtsilä CHP plants run on various natural gas and liquid fuel qualities, while maintaining low emissions and high efficiency. The total plant efficiencies in CHP may rise to more than 90%.
The system for heat generation, producing either low-pressure steam, hot water or both, is designed according to the customer’s needs and requirements.

BIOPOWER
The BioEnergy or BioPower plants, in the 1-17 MWth power range, produce either thermal energy for district heating or for drying and other industrial processes, or they can serve as combined heat and power plants.
Wärtsilä’s patented rotating BioGrate combustion technology is especially suitable for wet biomass, such as wood residues, wood chips, bark and sawdust.