

# LNG Power Generation

For Yukon grid back up

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# Power Plant overall view



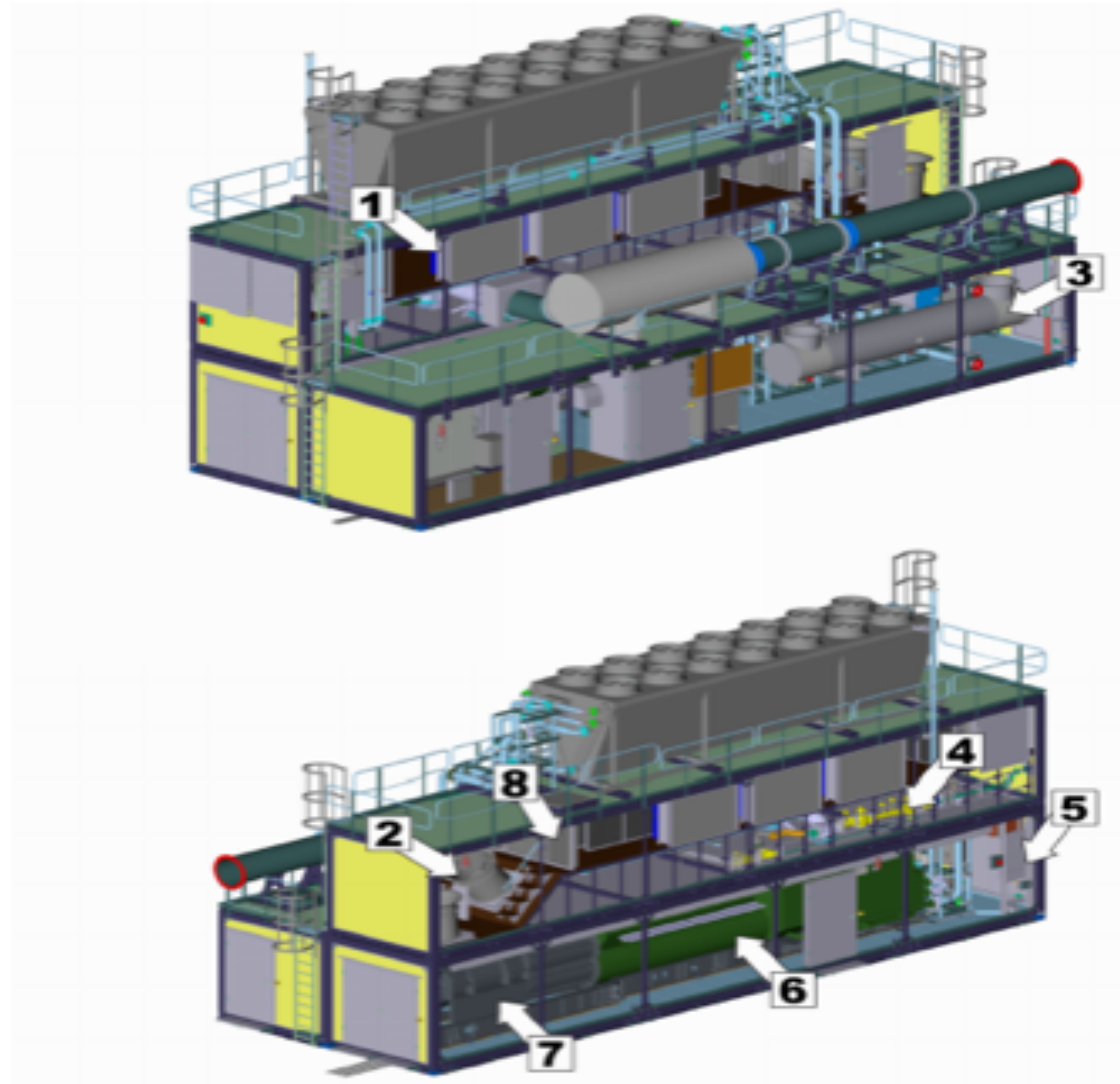
# Liquid Natural Gas (LNG), Engine capacity

- Natural gas is a type of fuel, like gasoline or diesel, used to drive engines or heat buildings. After it is removed from the ground it can be refrigerated to  $-162^{\circ}\text{C}$ ; at that temperature it turns into liquid (referred to as LNG or liquid natural gas) that takes up far less space so that it can be economically transported. It is also stored as a liquid until ready for use, at which time it is returned to a gas.
- 4.4 MW engines (presently two) makes 8.8 MW capacity, with future addition of one more engine.
- Engine genset delivers power and heat (CHP)

# Closer View of power plant



Engine container over view of components



- [1] Filter unit
- [2] Fans
- [3] Heat exchanger (optional equipment)
- [4] Gas regulating device

- [5] Oil tank
- [6] Engine
- [7] Generator
- [8] Supply air heater