

Hydrogen-based Power plant

Gas Turbine Generator Set GPB17
 Dual Fuel (100% H₂ ◀.....▶ 100% Natural Gas)

Gas Turbine Type		M1A-17	M1A-17
		Natural Gas	Hydrogen
Fuel type			
Electrical Power	kW	1,817	1,902
Fuel input	kW	6,673	6,907
Efficiency	%	27.2	27.5
Exhaust gas mass flow	kg/s	7.99	7.89
Exhaust gas temperature	°C	528	528
Generator voltage	kV	0.4 / 6.3 / 10.5	0.4 / 6.3 / 10.5
Steam mass flow 8 bar(g) saturated	t/h	5.2	5.2
Nox Reduction method		Water injection	Water injection
Emissions (NOx)	ppm	37	50
Emissions (CO ₂)	%	3	0.0

Performance at 15°C, 60% RH, at Generator Terminal
 Inlet Pressure Loss 0,98 Exhaust Pressure Loss 2,45



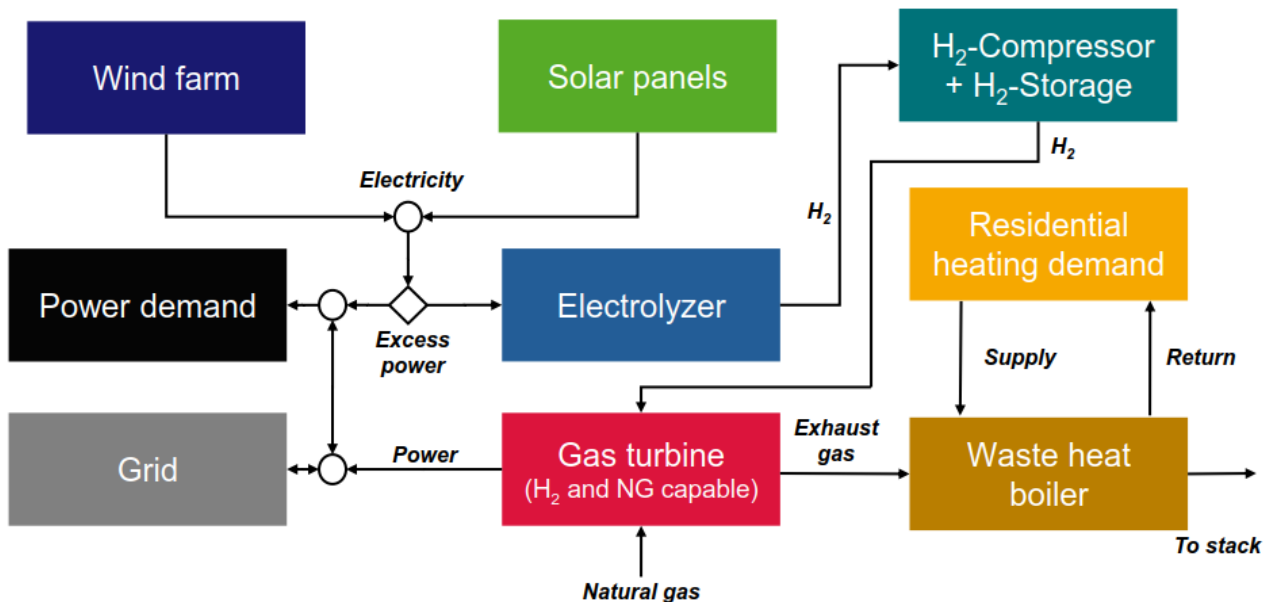
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www.kawasaki-gasturbine.de

An innovative combined heat and power plant with renewable energy supply and storage

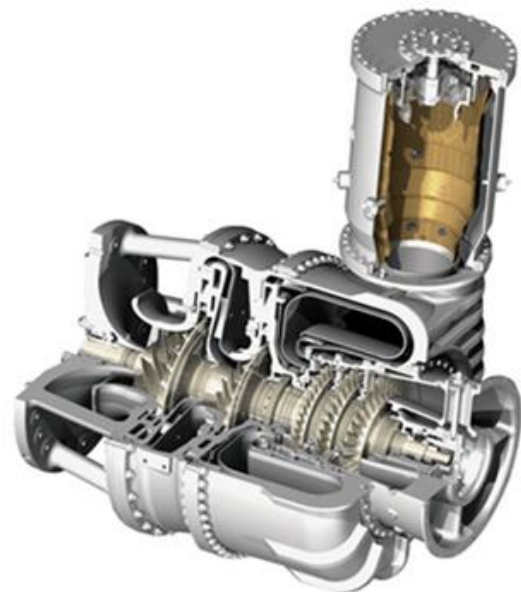


7,000 tons of CO₂ emissions reduction Annually
(1.8 MW Gas Turbine)

Combustion Mode:
Diffusion Flame

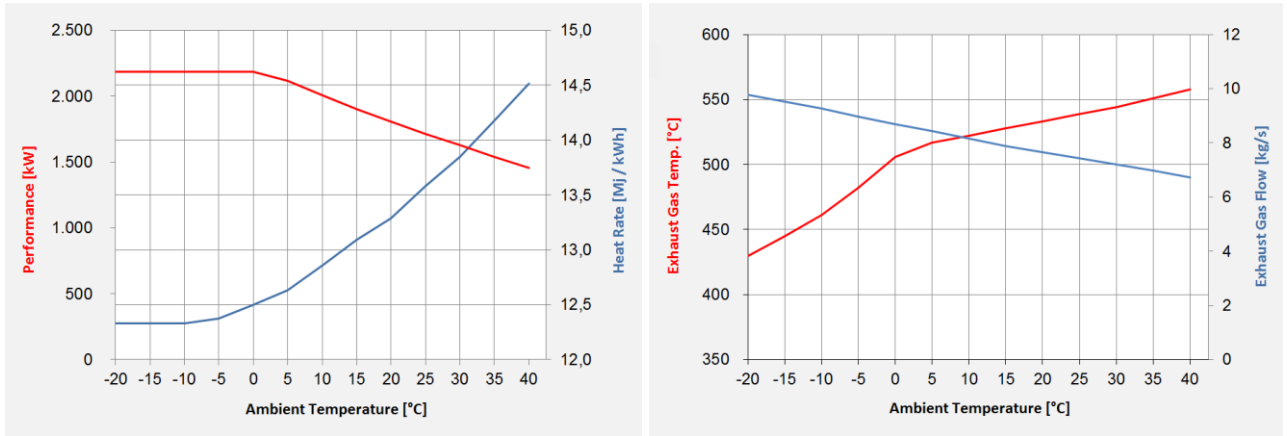
Fuel Modes:

- 100 % H₂
- 100% Natural Gas
- Blend Gas

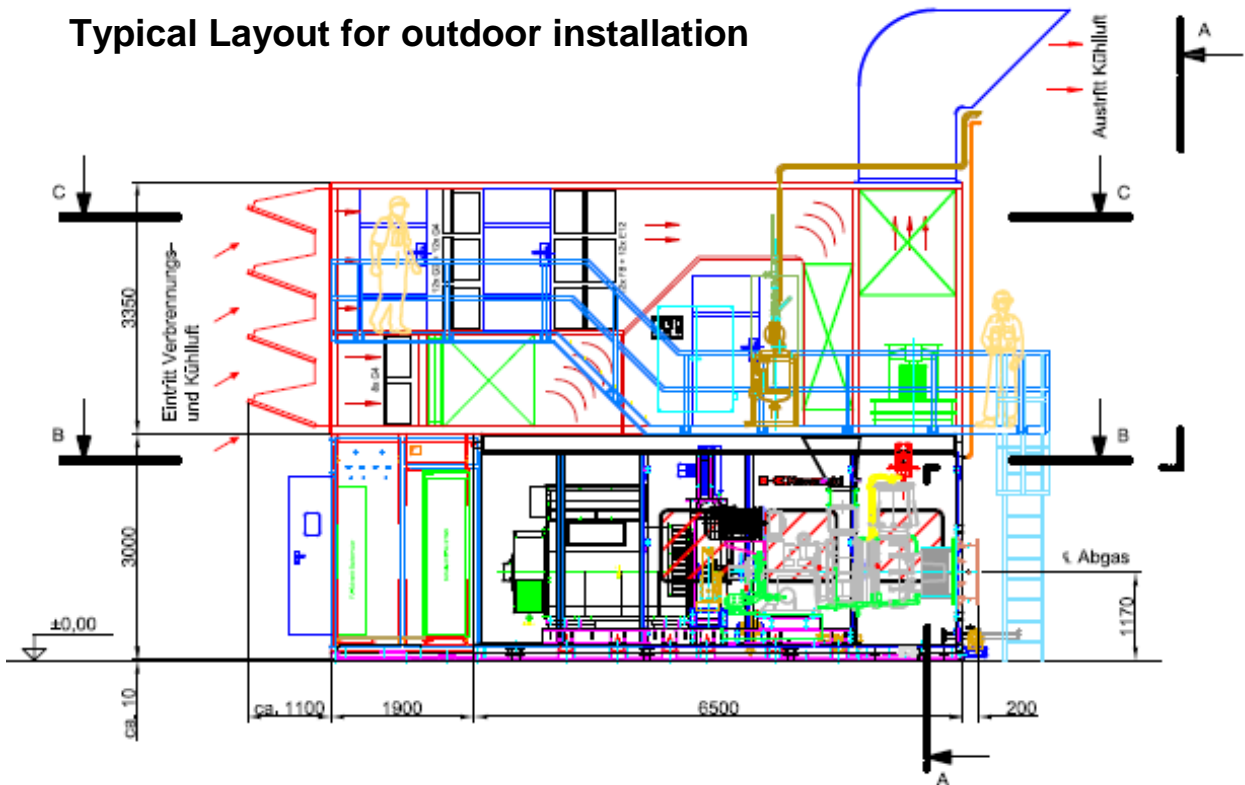


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Performance Diagrams at ISO conditions (Hydrogen)



Typical Layout for outdoor installation



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