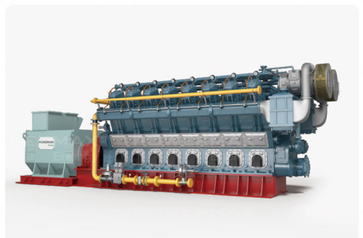
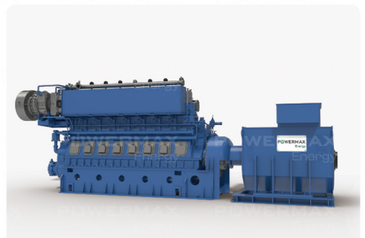
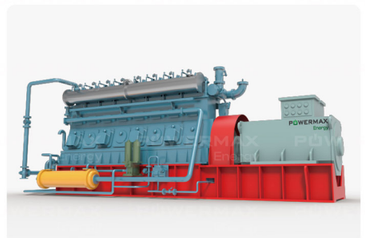
POWER SOLUTIONS YOU CAN **RELY ON**



GAS POWER
Natural Gas / Biogas / Coal Bed Methane /Propane



DIESEL/HFO/DUAL-FUEL
Reliable and Flexible Power



BIOMASS/COAL GASIFICATION/SYNGAS
Renewable Distributed Power

POWERMAX Energy

Wuxi Powermax Renewable Energy Technology Co., Ltd.

Company Address: Chuangrong Building, Danshan Road, Anzhen Street, Xishan District, Wuxi City, Jiangsu Province, China.

Factory Address: No.26 Jingrui Rd, Xibei Town, Xishan District, Wuxi, Jiangsu, China.

Office Number: +86 138 1208 3566 / +86 510 6822 9610

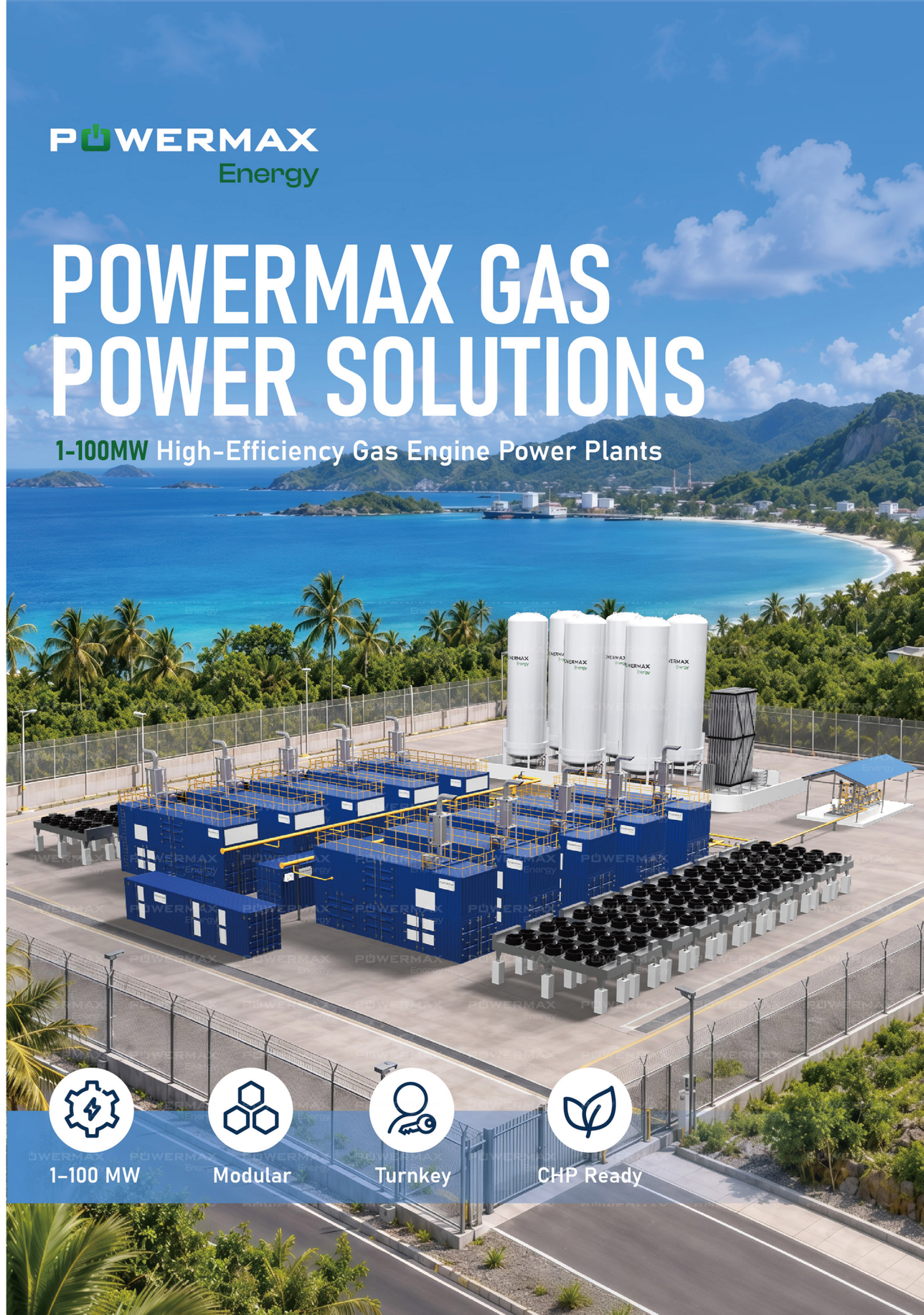
E-mail: sales@powermax-energy-global.com

Website: www.powermax-energy-global.com

POWERMAX Energy

POWERMAX GAS POWER SOLUTIONS

1-100MW High-Efficiency Gas Engine Power Plants



ABOUT POWERMAX ENERGY

Powermax——Your Comprehensive Energy Solutions Partner Driving the Global Green Transition

Wuxi Powermax Renewable Energy Technology Co., Ltd. (Powermax) is an international technology enterprise specializing in comprehensive energy solutions and biomass-to-energy conversion. Leveraging 40 years of profound technical expertise, we are committed to providing global clients with efficient, clean, and sustainable energy conversion technologies and innovative business models, empowering enterprises worldwide to achieve energy transition and maximize carbon asset value.

40 Years of Technical Expertise and a "Dual-Core" Global Strategy

Powermax's core technology is built upon the team's nearly four decades of deep industry engagement. Under the strategic vision of CEO Mr. Charles Qian, the company operates on a "Dual-Core Synergy" model: our domestic entity, Wuxi Teneng Power Machinery Co., Ltd., continuously refines foundational manufacturing processes, while our international entity, Powermax, fully aligns with global standards to expand overseas markets. This strategy ensures that every system we deliver combines exceptional reliability with agile global responsiveness.

40+ Years
Combined Engineering Experience

24/7
Remote Support

30,000 m²
Total Area

12–48 h
Rapid On-Site Service Response

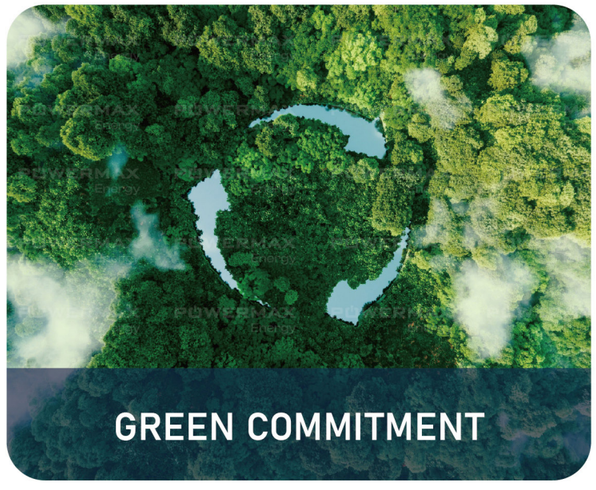
120+
Employees

1000+
Legacy Platform Installations









Why Choose POWERMAX ENERGY?

Our Services

Remote Support
24/7 telephone and video support, response available within 30 minutes

Spare Parts Supply
Provide critical spare parts throughout the full product lifecycle

On-site Service
Professional service team, on-site within 12–48 hours (depending on location)

Service Reports
Detailed reports and recommendations provided after each maintenance visit

Trusted Partners

Baudouin · SIEMENS · ABB · mtu · Cummins · HEINZMANN · STAMFORD | AvK · ComAp · LEROY SOMER · DEIF · mecc alte · Schneider Electric · MWM · MAN · DSE

Industry Compliance and Certification

Ex · CE · CCC · UL · CSA · CNEX · EPA · ISO 50001 · ISO 45001 · ISO 9001 SGS · ISO 14001 SGS

POWERMAX Energy

Why Gas Power?

High Reliability & Durability
Capable of long-term continuous operation and featuring low operating costs.

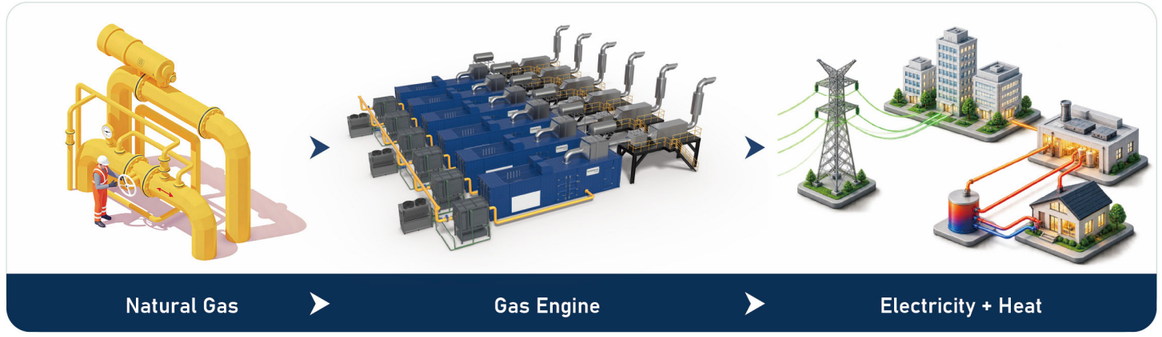
Lower Carbon Intensity
Optimized carbon emission intensity for lower carbon emission levels

Quick Deployment
Factory prefabrication and modularization

Flexible Adaptability
Natural Gas / Biogas / Syngas/ Biomass gas

CHP /Trigeneration Ready
Power + Heat + Cooling + ORC

Modular & Scalable
Flexible expansion, modular container design



One-Stop
Gas Power Plant Solution

From Gas Supply to Grid — We Deliver the Complete Solution

Powermax delivers one-stop turnkey solutions for natural gas power plants, covering the complete project lifecycle from engineering and system integration to installation, commissioning and long-term service. Our integrated solutions combine high-efficiency gas engine generator sets with gas supply and conditioning, cooling, exhaust, electrical distribution and intelligent control systems to provide reliable, efficient and flexible power generation.

Our complete service scope covers gas receiving, pressure regulation, filtration and metering, gas engine generator sets, cooling and exhaust systems, LV/MV electrical distribution, synchronization and protection, SCADA/EMS, optional heat recovery, as well as plant auxiliary and safety systems. Modular engineering and factory prefabrication simplify on-site installation, shorten project schedules and support flexible capacity expansion.

High-Efficiency Gas Engine

High-efficiency gas engine technology delivers stable continuous power with optimized fuel consumption and reliable long-term operation.

Integrated Gas Supply System

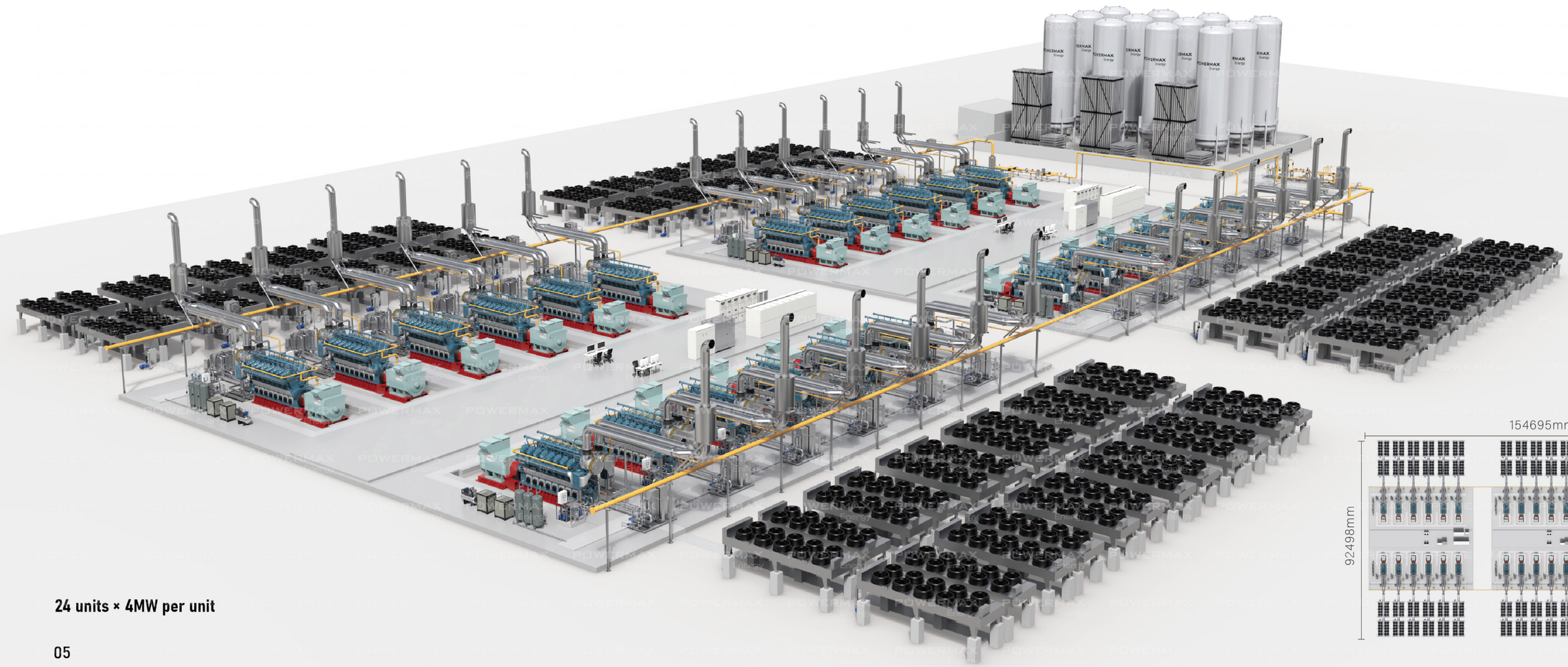
Gas receiving, filtration, pressure regulation and metering are integrated to ensure stable and safe gas supply under varying operating conditions.

Waste Heat Recovery

Exhaust and cooling heat can be recovered for heating, cooling or additional power generation, improving overall energy utilization.

High-Performance Electrical System

High-efficiency alternators and intelligent electrical control provide stable voltage and frequency for reliable grid or island operation.

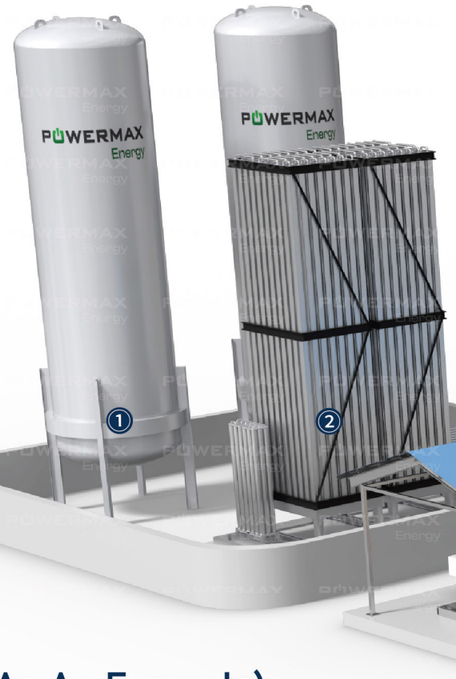


24 units × 4MW per unit

Modular Containerized Gas Power Solutions

Powermax Modular Containerized Gas Power Solutions integrate gas engine generator sets and key auxiliary systems into factory-prefabricated modules, providing a compact, flexible and rapidly deployable power generation solution. Standardized modular design reduces on-site construction, simplifies transportation and installation, and significantly shortens project delivery and commissioning time.

The system can be configured with gas supply and regulation, power generation, cooling, exhaust, electrical control and optional heat recovery modules. Multiple units can operate independently or in parallel, allowing generating capacity to be expanded step by step according to project requirements.

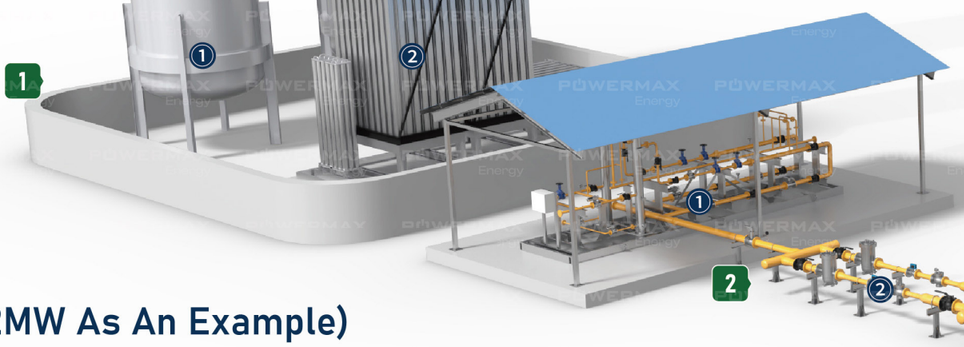


1 LNG Fuel Storage & Vaporization Area

① LNG Storage Tank (Total Volume: 100 m³)
② Main Air-heated Vaporizer

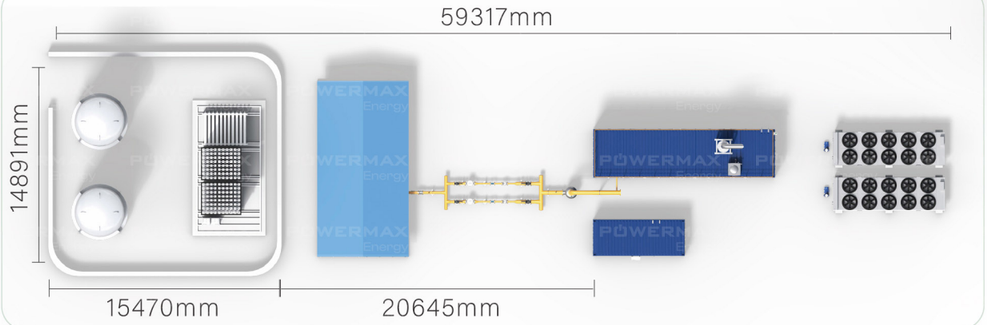
2 LNG Pressure Regulating Station

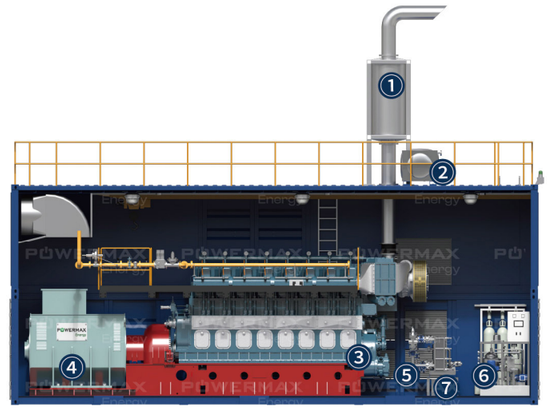
① Primary Gas Pressure Regulating Station
② Secondary Gas Pressure Reducing Skid





(2MW As An Example)

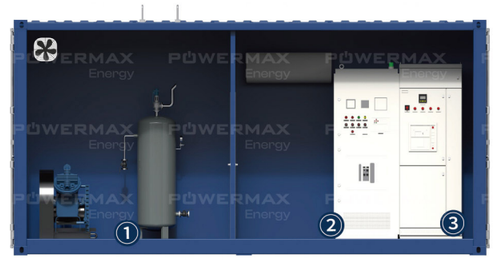




3 Power Module

① Silencer
② Expansion Tank
③ Engine: TNJD G8320T
④ Alternator: Siemens IFC6/2MW
⑤ Cooling Module
⑥ Lub-oil Separation Module
⑦ Lube Oil Tank

Overall Dimension(L × W × H):
Non-standard container
11600 × 3210 × 5044mm



4 Electrical Module

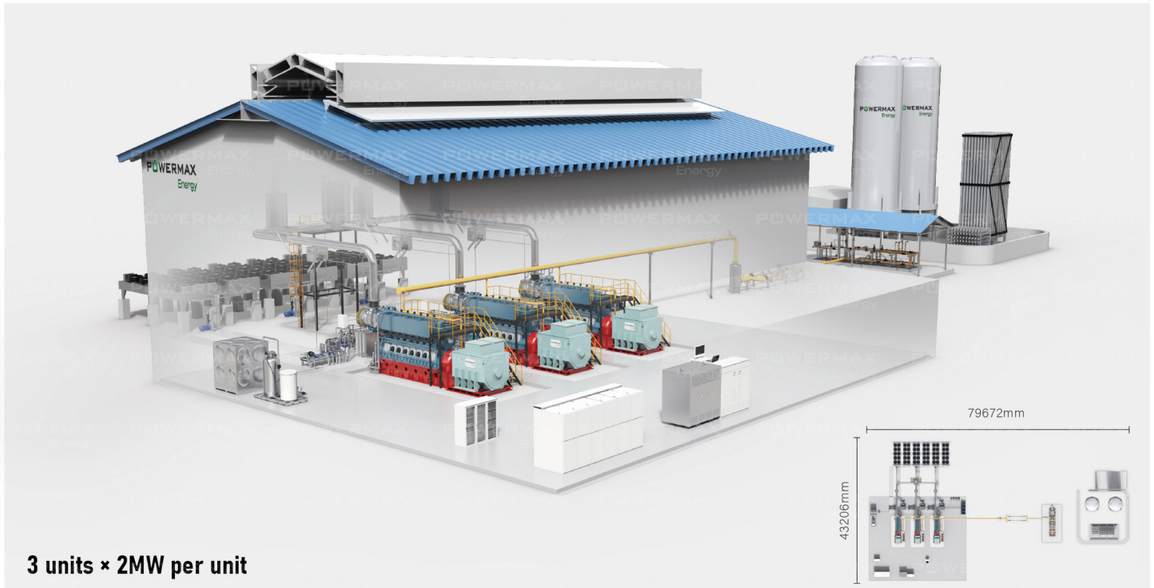
① Compressed Air Module
② Power Station Control Cabinet
③ Power Output Cabinet

Overall Dimension(L × W × H):
20' HC ISO Container



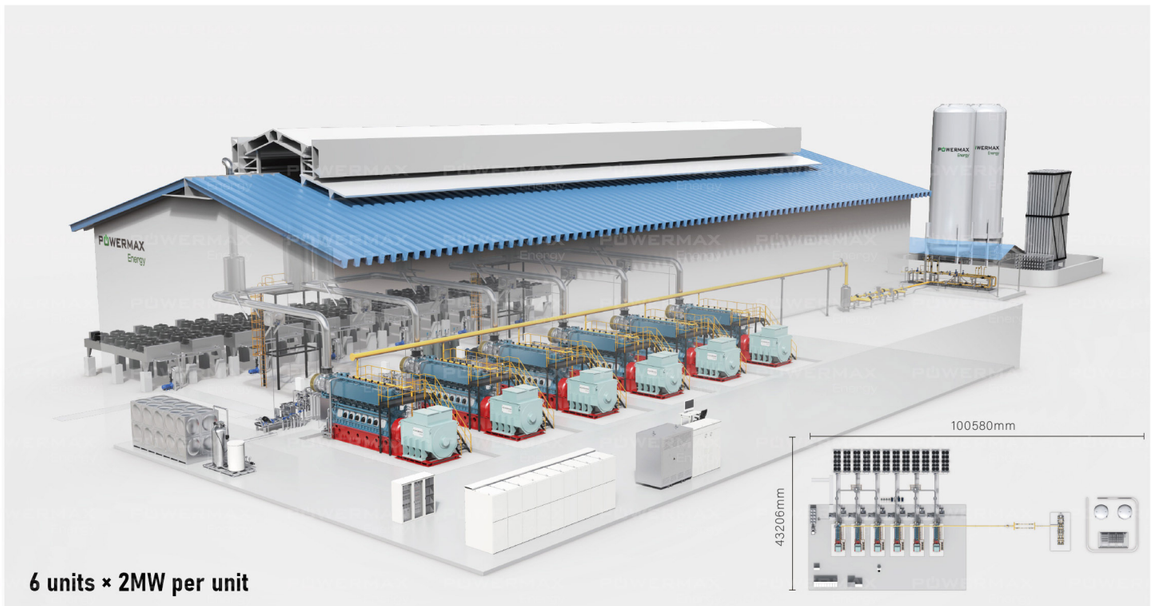
Power Station Solution

| 6MW Natural Gas Power Plant



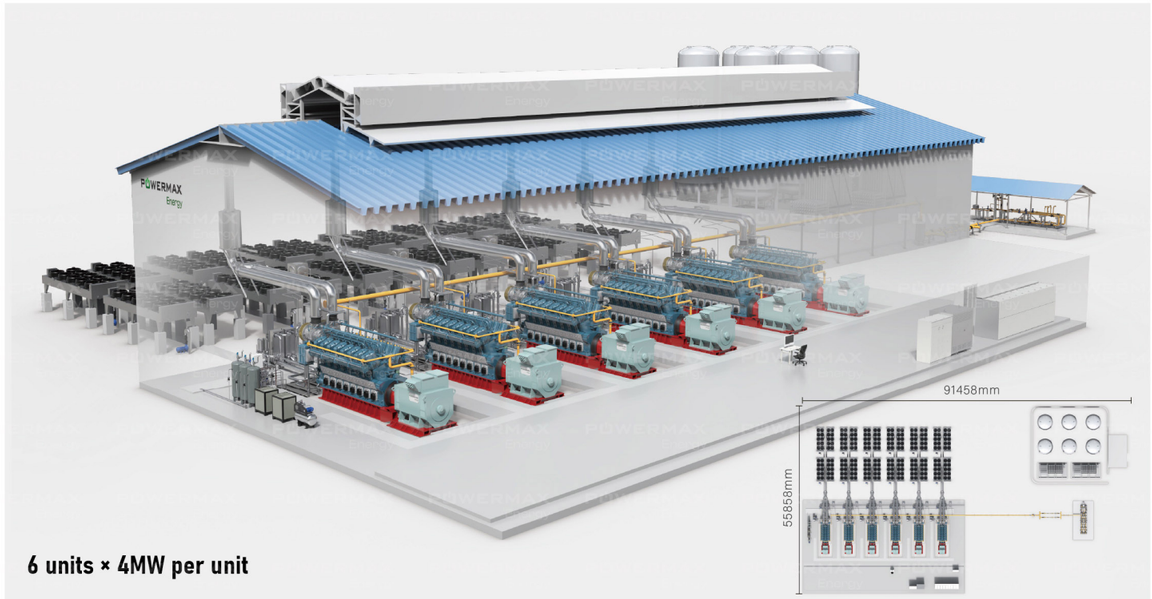
3 units × 2MW per unit

| 12MW Natural Gas Power Plant



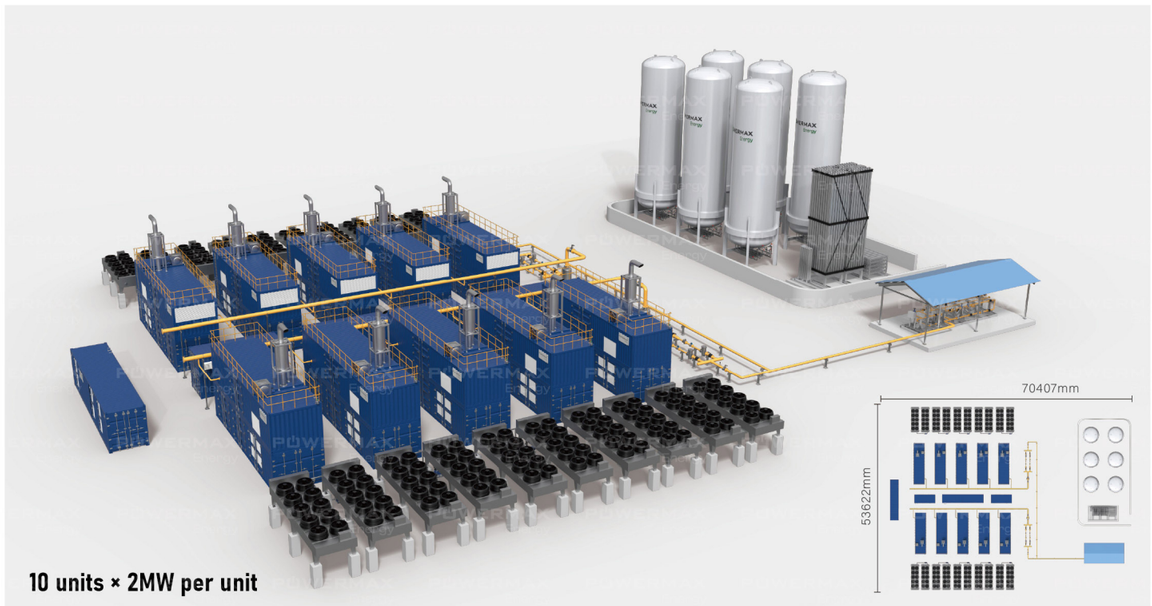
6 units × 2MW per unit

| 24MW Natural Gas Power Plant



6 units × 4MW per unit

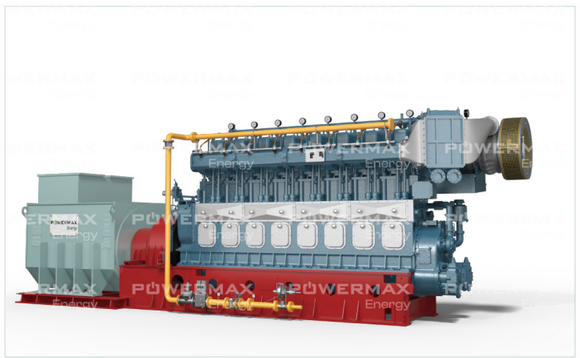
| 20MW Modular Containerized Power Plant



10 units × 2MW per unit

Natural Gas Generator Set
- 300 Series

The 300 series heavy-duty natural gas power generation sets offer a power range of 1500kW to 4000kW. Key advantages include stable and reliable operation, high output power, low maintenance costs, and rapid site deployment. These units are suitable for large-scale industrial plants, remote island power stations, major mining operations, and main power supply systems for data centers.



TNJD G8300T



TNJD G16V300T

Technical Parameter

ITEM				
Gas Genset Type	1500GFLS	2000GFLS	3000GFLS	4000GFLS
Rated Engine Power	1650kWm	2200kWm	3300kWm	4400kWm
Rated Electrical Power	1500kWe	2000kWe	3000kWe	4000kWe
Engine Model	TNJD G8300T	TNJD G8320T	TNJD G16V300T	TNJD G16V320T
Cylinder Arrangement	L8		V16	
Displacement	215L	244L	430L	488L
Bore × Stroke	300 × 380mm	320 × 380mm	300 × 380mm	320 × 380mm
Compression Ratio	10:1			
Air Intake System	Turbocharged and intercooled			
Cooling System	Radiator or heat exchanger with cooling tower (Optional)			
Governor Type	Hydraulic mechanical / electronic (Optional)			
Gas Pressure	≥2.5 kPa			
Gas Inlet Temperature	≤40°C			
Heat Consumption*	≤8780 kJ/kWh			
Lubricating Oil Consumption	≤ 1.0 g / kWh			
Starting Mode	Compressed Air			
Exhaust Temperature	≤450 °C			
Frequency	50Hz/60Hz			
Rated Speed	500 /514 rpm	600 rpm		
Alternator Rated Voltage (V)	400 / 440 / 6300 / 6600 / 10500 / 13800 V			
Phase and Connection	3 Phase 4 Wires /Y Type connection			
Power Factor	0.8 lagging			
Excitation Mode	Brushless			
Alternator	Siemens /Leroy Somer(Optional)			
Overall Dimensions (mm)	9100 × 2360 × 3286	9100 × 2360 × 3286	10540 × 2750 × 3100	10540 × 2750 × 3100
Net Weight (kg)	40000	45000	61500	65000

*Performance data are based on reference gas and standard ambient conditions. Final output and heat rate are subject to gas composition, altitude, ambient temperature, cooling system and project configuration.

Natural Gas Generator Set
- 190 Series

The 190 Series Natural Gas Generator Set is designed for reliable, efficient and low-emission power generation. Featuring high-pressure turbocharging, lean-burn combustion and closed-loop air-fuel ratio control, it delivers optimized fuel efficiency, stable output and dependable performance for continuous operation.

Built on a proven heavy-duty platform, the series combines robust construction with flexible system configurations to meet diverse project requirements. It is suitable for power plants, oil & gas fields, compressor stations, industrial facilities and data centers, supporting both grid-connected and standalone applications.

With its high reliability, long service life and optimized operating efficiency, the 190 Series provides a practical and cost-effective solution for continuous and mission-critical power generation.

Robust Performance
400–2000 kWe Power Output
Stable Performance at 50/60 Hz

Advanced Technology
Proven 190 Series Platform
Efficient Turbocharged Performance

Easy Maintenance
Designed for Easy Service & Maintenance

Reliable Operation
Low Operating Costs
Built for Continuous Power Supply

Technical Parameter

ITEM						
Gas Genset Type	400GFLS	500GFLS	600GFLS	700GFLS	1200GFLS	2000GFLS
Rated Engine Power	440kWm	550kWm	660kWm	770kWm	1320kWm	2200kWm
Rated Electrical Power	400kWe	500kWe	600kWe	700kWe	1200kWe	2000kWe
Engine Model	TNJD 12V190		TNJD 12V190T		TNJD 16V190T	TNJD 20V190T
Cylinder Arrangement	V12				V16	V20
Displacement	71.4L				97.5L	144.6L
Bore × Stroke	190 × 210mm				190 × 215mm	190 × 255mm
Compression Ratio	8:1		10:1			
Air Intake System	Naturally aspirated		Turbocharged and Water-Cooled			
Cooling System	Closed cycle water cooling					
Governor Type	Mechanical/Electronic					
Gas Pressure	≥2.5 kPa					
Gas Inlet Temperature	≤40°C					
Heat Consumption	≤11000 kJ/kWh				≤10000 kJ/kWh	≤9000 kJ/kWh
Lubricating Oil Consumption	≤1.0 g/kWh					
Starting Mode	Compressed Air/Electric start(Optional)					
Exhaust Temperature	≤650°C					
Frequency	50Hz/60Hz					
Rated Speed	1000 rpm/1200 rpm					
Alternator Rated Voltage (V)	400/6300/6600/10500/13800					
Phase and Connection	3 Phase 4 Wires /Y Type connection					
Power Factor	0.8 lagging					
Excitation Mode	Brushless					
Alternator	Siemens /Leroy Somer(Optional)					
Overall Dimensions (mm)	5120 × 2040 × 2195		5120 × 2040 × 2780		6350 × 2040 × 2960	9100 × 3890 × 2790
Net Weight (kg)	12000	12500	12800	13000	23550	31000

Application Case

01 2MW Power Plant

Location
Indonesia

System
BlOWATT Biomass Gasification System
Biomass Gas Generator Sets

Contract Signed
2025

Electrical Output
2MW



PROJECT HIGHLIGHTS

The project converts locally available wood residues and coconut biomass into clean producer gas for power generation, providing reliable renewable electricity for grid-connected operation.

02 12MW Power Plant

Location
Myanmar

System
Rice Husk Gasification Power Plant / Biomass Gas Generator Sets

Contract Signed
2023

Electrical Output
12MW



PROJECT HIGHLIGHTS

The 12 MW rice husk gasification power plant converts locally available agricultural residues into producer gas for continuous power generation.

- **Mining & Industrial Sites**

  On-site power supply for large mining areas, including gold, iron and coal mines



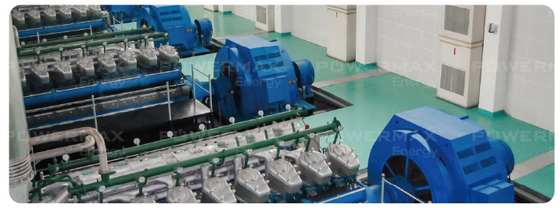
- **Islands & Offshore Facilities**

  Power supply for island development, offshore platforms and marine engineering projects



- **Overseas Projects**

  Power infrastructure for off-grid or weak-grid regions across Africa, Southeast Asia and the Middle East



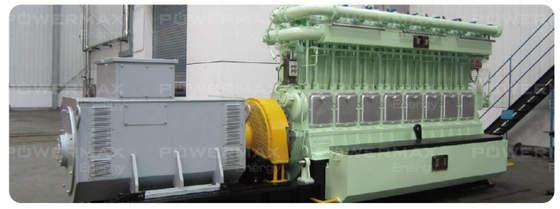
- **Industrial Parks**

  Self-operated power stations and main standby power for large manufacturing facilities



- **Emergency Power Supply**

  Continuous uninterrupted power supply for regions with unstable grid conditions



- **Remote Infrastructure**

  Temporary and long-term power supply for highway, railway and water conservancy projects

