

**An ISO 9001-2015 Certified Co.
A Powergen Company In Distributed Power Generation**

Green Power International is India's leading EPC Power generation company. The core competency of GPIPL includes design, engineering, supply, construction operation & and maintenance services of 32 KWe to 4500 KWe gas genset-based power plants up to 100MW capacity along with Heat Recovery and power Conditioning Solutions. GPIPL integrates design, manufacturing, and project management expertise to execute turnkey projects that are cost-effective, reliable, and custom-built to the needs of our customers. The turnkey contracts represent the Company's engineering, procurement, and construction projects business, which includes Gas and liquid fuel-based power plants along with Waste Heat Recovery solutions.



HEAD OFFICE

- E-12/A, Sector-63, Noida - 201301, U.P. (India)

THAILAND OFFICE

- **GPI ENERGY (THAILAND) LTD.**
1000/5-6, Liberty Plaza, Floor 20, Sukhumvit SOI 55 (Thonglor)
Klong Tan Nuea Wattana, Bangkok - 10110, Thailand



HEAD OFFICE - +91-120-4655400/437, Fax No.: +91-120-4655499 (Noida)

THAILAND OFFICE - +66 98 852 7675 (Thailand)



gpil@greenpowerintl.com



www.greenpowerintl.com



**What Ever Your Energy Requirement,
We Have the Solution For you**



About Us

Green Power International Pvt. Ltd. (GPIPL) having headquarters in Noida, India, and subsidiaries in Lagos, Nigeria & and Bangkok, Thailand is an Engineering, Procurement, and Construction (EPC) company specializing in gas genset-based power generation. GPIPL specializes in providing single window turnkey EPC solutions & and long-term comprehensive O&M services for MWM gas genset-based power plants up to 100 MW capacity along with Heat Recovery and power Conditioning Solutions.



INCORPORATED IN THE YEAR 2002



OVER 650 MWE MWM GAS GENSET-BASED INSTALLATIONS WORLDWIDE



450+ INSTALLATIONS ACROSS THE GLOBE



MORE THAN 10 MILLION OPERATIVE HOURS OF INSTALLED CAS GENSETS



STRONG TEAM OF 500+ PROFESSIONALS & AND TECHNOCRATS



24X7 OPERATION & MAINTENANCE SERVICES.



IN-HOUSE DESIGN, ENGINEERING, PROCUREMENT, FABRICATION, CONSTRUCTION, PROJECT CONTROLS, SAFETY, QUALITY AND MAINTENANCE SERVICES.

Association with MWM

Since its inception in 2002, GPIPL has been the sole authorized distributor of MWM Gas Gensets in India. Later with the cooperation of MWM GPIPL expanded its operation in Africa and Southeast Asia.



With more than 150 years of experience



4,900+ gensets with 5,637,000 kWe installations worldwide

MWAM is one of the renowned brands in the development and optimization of gas Gensets in the market segment of highly efficient, eco-friendly cogeneration plants for decentralized energy generation with combined heat and power (CHP). MWM has been creating and manufacturing environment-friendly gas engines and gensets in its cutting-edge manufacturing facilities in Mannheim, Germany, since 1871.

Since December 2020, Green Power International Pvt Ltd has been appointed as the Recognized Solution provider by MWM for the provision of sales and Services of the MWM product range into multiple African markets. We are proud to be among the few who were chosen from MWM's global dealer network to be a recognized solutions provider.



Our Service & Maintenance

- Design and engineering of Gas and Liquid-based Power Plants up to 100 MW.
- Co-generation & and Tri-generation Power Plants.
- Comprehensive O&M Services for the Power Plants (Gas, Liquid, Steam).
- Overhauling and Troubleshooting Services and spares for Power Plants.
- Solutions for Renewable Energy like Landfill, Biogas, Biomass, Waste to Energy etc.

Our Installations



AMUL PLANT, ANAND

PROJECT: 1 No. x 1364 KWe Natural Gas Genset-based Power Plant 9 Anand, Gujarat, India.



A-ONE PRODUCTS & BOTTLERS LTD.

PROJECT: 2 Nos. x 3900 KWe Natural Gas Genset-based Power Plant Dar es Salaam, Tanzania.



LAMPANG AGRO CO. LTD.

PROJECT: 1 No. x 1560 KWe Biogas Genset-based Power Plant Nakhon Pathom, Thailand.



LOKMANGAL AGRO INDUSTRIES LTD.

PROJECT: 2 Nos. x 1931 Kwe MWM Biogas Genset-based Power Plant Solapur, Maharashtra, India



SAINT GOBAIN INDIA PVT. LTD.

PROJECT: 1 No. x 4300 KWe Natural Gas Genset-based Power Plant Bhiwadi, Haryana

MBH POWER LIMITED

PROJECT: 2 Nos. x 1125 KWe and 2 nos. x 2000 KWe Natural Gas Genset-based Power Plant, Nigeria



MWM Product Range



MORE SAVINGS TO CUSTOMER

The optimized maintenance concept with a cylinder unit simplifies accessibility and along with the reduction of the number of different parts minimizes the time required for maintenance. This saves up to 20% in service costs. At the same time, you profit from up to 30% less lubricating oil consumption compared to other engines.



OPTIMUM EFFICIENCY

State-of-the-art technologies, such as the optimized gas mixer and TEM (Total Electronic Management), ensure efficient operation even with such complex gases as mine gas, landfill gas, or sewage gas. This is also true when the gas composition is fluctuating - thanks to fast response times due to the temperature monitoring of each cylinder. TEM not only controls the engine but the entire system including heat extraction.



OPTIMUM EFFICIENCY

The particle-free combustion with pre-chamber combustion spark plugs extends the service intervals for the exhaust gas heat exchanger and reduces service costs compared to other combustion methods.



LONGER RUNTIME

Thanks to the extended service intervals, the TCG 2032 runs up to 200 hours longer per annum than Comparable products.



FULL TURBO POWER

The new high-pressure turbocharger A140 in combination with optimized gas exchange allows the engine to run at full power, even under tropical conditions.



Technical Data - MWM Gas Gensets

Technical Data - MWM Gas Gensets

TCG 3016

Engine Type		TCG 3016 V08	TCG 3016 V12	TCG 3016 V16
Electrical Output	KW	400	600	800
No. of Cylinders	Nos.	8	12	16
Electrical Efficiency	%	43.1	43.3	43.5
Thermal Efficiency	%	43.6	44.6	44.6
Speed	RPM	1500	1500	1500
Bore / stroke	mm	132/160	132/160	132/160
Displacement	dm3	17.5	26.3	35
Length	mm	3100	3830	4200
Width	mm	1780	1780	1780
Height	mm	2150	2150	2150
Dry Weight Genset	kg	5720	7000	8070

TCG 2020

Engine Type		TCG 2020 V12(1.0)	TCG 2020 V12K*	TCG 2020 V12
Electrical Output	KW	1000	1125	1200
No. of Cylinders	Nos.	12	12	12
Electrical Efficiency	%	43	41	43.7
Thermal Efficiency	%	45.4	45.6	43.3
Speed	RPM	1500	1500	1500
Bore / stroke	mm	170/195	170/195	170/195
Displacement	dm3	53.1	53.1	53.1
Length	mm	4660	4790	4790
Width	mm	1810	1810	1810
Height	mm	2210	2210	2210
Dry Weight Genset	kg	11200	11700	11700

TCG 2020

Engine Type		TCG 2020 V16K*	TCG 2020 V16	TCG 2020 V20
Electrical Output	KW	1500	1560	2000
No. of Cylinders	Nos.	16	16	20
Electrical Efficiency	%	40.9	43.3	43.7
Thermal Efficiency	%	45.7	43.8	43.3
Speed	RPM	1500	1500	1500
Bore / stroke	mm	170/195	170/195	170/195
Displacement	dm3	70.8	70.8	88.5
Length	mm	5430	5430	6200
Width	mm	1810	1810	1710
Height	mm	2210	2210	2190
Dry Weight Genset	kg	13300	13300	17900

TCG 3020

Engine Type		TCG 3020 V12	TCG 3020 V16	TCG 3020 V20
Electrical Output	KW	1380	1840	2300
No. of Cylinders	Nos.	12	16	20
Electrical Efficiency	%	45	44.7	45
Thermal Efficiency	%	42.3	42.6	42.3
Speed	RPM	1500	1500	1500
Bore / stroke	mm	170/195	170/195	170/195
Displacement	dm3	89	89	89
Length	mm	5080	6100	6600
Width	mm	1710	1710	1710
Height	mm	2190	2190	2190
Dry Weight Genset	kg	12900	17400	21400

TCG 2032

Engine Type		TCG 2032 V12*	TCG 2032 V16*	TCG 2032B V16*
Electrical Output	KW	3333	4300	4500
No. of Cylinders	Nos.	12	16	16
Electrical Efficiency	%	43.9	44.1	44.6
Thermal Efficiency	%	42.6	42.7	43.1
Speed	RPM	1000	1000	1000
Bore / stroke	mm	260/320	260/321	260/322
Displacement	dm3	203.9	271.8	271.8
Length	mm	7860	9271	9272
Width	mm	2660	2790	2790
Height	mm	3390	3390	3390
Dry Weight Genset	kg	43100	51200	51400

Note

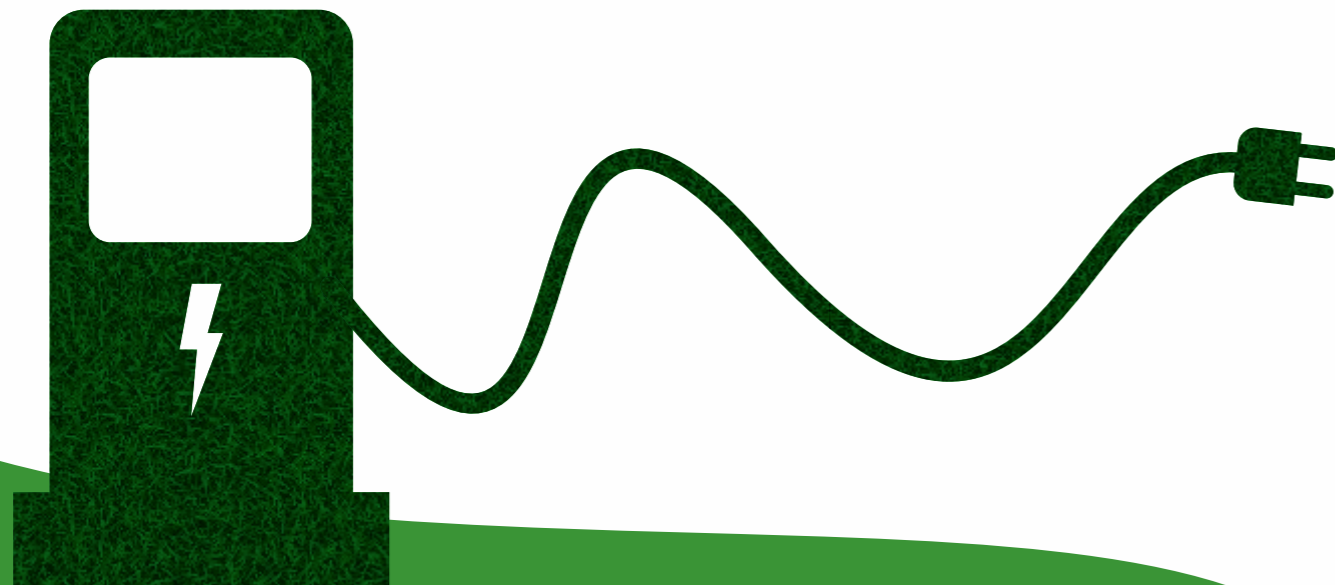
- 1.*Not available in Biogas
2. Engine power rating according to ISO 3046/1.
3. The Power output is rated for continuous duty.
4. The engine ratings are at standard operation and environmental conditions.
5. The electrical output is at 415 Volts / 11kv and Pf = 1 as per OEM specifications
6. The engine output is based on natural gas with a minimum methane number as per the Recommendations of OEM.
7. The dimensions and weight are approximate and for reference purposes only.
8. The data/figures given above are for information purposes only and are not binding. The information given in the offer is decisive.

Energy-Efficient and Environment-friendly Power



100% GAS GENSETS.

E2P Gas Gensets are a Leading brand of GEGs designed to cater to the power requirement of 40 KVA to 125 KVA for standby and continuous applications. The Gas Gensets are equipped with CPCB II IL-approved highly efficient and reliable Ashok Leyland Gas Engines. These gensets are suitable for Malls, residential & commercial buildings, hospitals, Food outlets, factories, CNG Stations, Oil and gas fields, CBM assets, etc. These machines can be used almost everywhere. E2P gas gensets offer better fuel efficiency in their class with minimal operation cost.



Advantages Of E2P Gas Gensets



FEATURES OF E2P GAS GENSETS

- Ready To Use (RTU) & rugged gas gensets.
- Designed for continuous operations as per prime power rating.
- Suitable for Island mode operations.
- The engine has a fuel kit comprising a Regulator, Mixer, and valves available to give optimum fuel efficiency.
- The engine has an Electronic Governing and alternator supplied with AVR thus having fast recovery during transient Load changes with +/- 1% Voltage Regulation.
- Provide a Gas connection at one end and take out Power from the MCB panel for use at the other end.
- Dynamically balanced closed coupled Engine - Alternator for least vibration operation.
- Aesthetically designed weatherproof & soundproof Acoustic Enclosure.
- Maximum safeties incorporated for reliable and safe operations.

E2P Gas Gensets Available on Natural Gas

Natural Gas Gensets Specifications

Genset Data

Gas Genset Model	Unit	E2P40(c)	E2P62.5(C)	E2P125(C)*
Fuel		Natural Gas	Natural Gas	Natural Gas
Power Rating**	kVA	40kVA	62.5 kVA	125 kVA
Electric Power	kWe	32	50	100
Voltage/ Frequency/ Phase/ P.F.			415V/50 Hz /3Ph/0.8	
Rated Current	Amp	55.65	86.95	173.91
Inlet Gas Pressure (Site conditions apply)	mBar/Bar		300 mBar - 4 Bar	
Dimensions(incl. acoustic enclosure) (Lx W x H) (approx.)	mm	2900 X 1300 X 1580	3500 X 1500 X 1900	3500 X 1500 X 1200
Dry Weight of gas Genset (approx.)	kg	2200	2500	2800
Battery Voltage	V	12	12	12
Battery Capacity	AH	150	150	150

Engine Data

Engine Make			Ashok Leyland	
Engine Model		AL4DNGIN	AL6ENG2/2	ALEDTING3/2
Aspiration		NA.	N.A.	TCIC
Gross Engine Output	BHP	53.02	80.21	156.35
Gross Engine Output	kWm	39	59	115
Rated Speed	RPM	1500	1500	1500
No. of Strokes		4	4	4
Displacement	Ltrs.	4.01	6.014	5.759
No. of cylinders and configuration		4 Inline	6 Inline	6 Inline
Bore x Stroke	mm	104X118	104 X18	104 X M3
Compression ratio		12.0(x 0.5):1	12.0(x 0.5):1	11.5(+05):1
FUEL SYSTEM				
Fuel Consumption at 75% load***	SCM/Hr	11	13.3	26.5
Governor Type & Class		Electronic-Integrated ECU controlled / ISO 8528 G1		
LUBE OIL SYSTEM				
Lube Oil Filter / Lube Oil Change Period	Hrs.	1000	1000	1000
Lube Oil Consumption	Ltrs/Hr	<0.15%	<0.15%	<0.15%
Alternators make		Leroy Somer/Equivalent		

Note

- *Genset models are not available in Biogas Fuel.
- Power Rating is as per ISO8528 standard under standard reference conditions.
- A tolerance of +5% will be applicable on fuel consumption. Different makes of alternators will also impact fuel efficiency.

The above data is subject to change without notice, as product improvement is a continuous process.

Our Installations



GULSHAN CHEMICAL

Project: 4 x 125 kva sets with syn mode
Location: Bhiwadi



Some of our Customers

