

Romania[®]

Water *Let's save Blue & Green*

DUAL FUEL SOLUTIONS FOR DIESEL ENGINES



COMPATIBLE FUEL GASES

- ◆ PNG - Pipeline Natural Gas
- ◆ CNG - Compressed Natural Gas
- ◆ LNG - Liquefied Natural Gas
- ◆ CBM - Coal-Bed Methane
- ◆ Bio-gas (landfill wastewater)

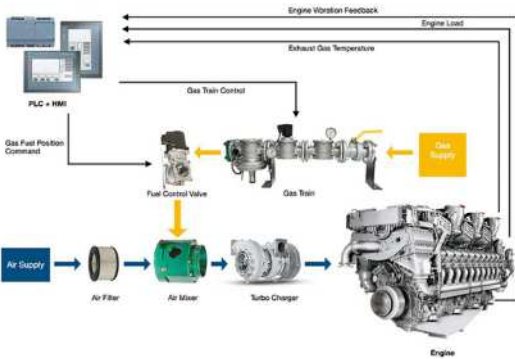
Till date we have converted over 40 engines ranging from 60KVA to 3000KVA of reputed domestic and global brands in various regions of India.



How does it work?

Natural gas is delivered to the combustion chamber of the engine using the existing air intake system of the DG sets. Hence there is no modification done to the engine or its firing/ignition system or the alternator.

The proprietary Air-Gas Mixer (AGM) is installed just downstream of the stock air filter where it dictates the air-to-gas ratio in conjunction with the Fuel Control Valve (FCV). The mixer uses the Venturi effect to draw gas into the engine. The fuel control valve has a 10-20 millisecond reaction time, allowing immediate throttle adjustment in response to changes in engine load. The fuel control valve utilizes internal software with fault detection and position control and is controlled by the Programmable Logic Control (PLC). Each kit is custom fit and commissioned for your specific engine and application.



	FEATURES	RWPE	COMPETITION
OPERATIONS	Displacement of 70% HSD with PNG	YES	YES
	No de-rating of the engine	YES	SOME
	Versatile performance in synchronized DG sets	YES	NO
	Versatile performance in DGs with jerk loads	YES	NO
	PLC based solution	YES	NO
SAFETY	Dynamic & real-time throttle position adjustment	YES	NO
	Exhaust gas temperature monitoring	YES	YES
	Engine vibration monitoring	YES	YES
SAVINGS	Adaptive gas correction (Reaction time : 10mins)	YES	NO
	Real time calculation of cost savings due to remote monitoring of fuel consumption (diesel & gas)	YES	NO
	Maximized savings due to precision throttle position control of fuel control valve	YES	NO

SYSTEM ADVANTAGES

- No loss of power
- Existing assets can be used
- Low Capital cost
- Rapid payback
- Reduced cost of generation
- Low or no maintenance cost
- Cleaner fuel improves emissions
- Improved engine condition monitoring

SYSTEM CHARACTERISTICS

- Non engine intrusive simple construction
- Available for different sizes of high speed engines
- Simple and easy to operate
- Safe engine operation
- Exhaust Temperature and Engine Knock monitoring
- Few moving components
- Fuel Flexibility
- Seamless switching between operational modes

Comparison



CONTACT US

Registered office :
Plot No. GH/01, N/31904 Erore Sam Pooram Sector-2,
Near Roja Jalalpur Chowk, Greater Noida West - 201306
Mob.: +91-8383076564

Branch office :
Flat No 1803 Platina F Casa Bell Gold,
Palaba City, Maharashtra, Dombivali 421204
Mob.: +91-7982188517

Branch office:
D127 PTPS New Market Road No 3 Ranchi,
Hazanbagh Patratu 829119
Mob.: +91-7428393469

Branch office :
H.N. 240, Adhiya Mohalla, Villi. &
Post Gotha, District Mau, Dohrighat 275303
Mob.: +91-8130181009