

Equipment Source Co. is an authorized sales agency for MAN Diesel of North America, Inc. We have been selected to help market their new natural gas engine(s) and our efforts will be concentrated primarily in California, Nevada and Arizona.

MAN Diesel North America is launching a revolutionary new gas engine featuring a high-energy ignition system without spark plugs.

MAN Diesel is targeting industrial energy users and municipal utilities for peak shaving, intermediate or base load, and combined heat and power applications. It is offered in V12 and V18 versions with power ratings of 5160 and 7140 kW.

The new engine is based on MAN Diesel's proven 32/40 diesel and dual fuel engine and combines market-leading efficiencies of 46% and above, very low emissions, and very low maintenance requirements.

A pilot ignition system in which a small amount of high-pressure gas injected onto a hot body, creating a flame calculated to produce 10,000 to 100,000 times more energy than a high performance spark plug. The gas injection valve and hot body are housed in a cooled pre-chamber located in a central cylinder head bore. The power required to compress the high pressure gas is minimal. An external energy source for the hot body is only required during start-up - thereafter retained heat ensures reliable ignition.

This outstanding ignition energy level allows the system to ignite considerably leaner air/fuel ratios than spark plugs, countering pre-ignition during the compression stroke and avoiding combustion knock and misfiring. Unlike spark plugs, the long service interval of the PGI system can be matched to the service intervals of the engine as whole, saving the costs of frequent spark plug changes and associated downtime.

32/40PGI Gas Engine:

7,336 BTU/kWh

NOx emissions of 0.7 g/kWh (0.5 g/hp-hr) @ 5% O₂.

CO₂ is less than 1100 #/mWh

For those that are unfamiliar with MAN Diesel, they are the world's leading designer of large-bore diesel engines. They produce engines from 450 to 97,300 kW, two and four stroke and are manufactured in various places around the world. Their worldwide service network consists of Authorized Repair Shops and service centers, the closest of which is in Los Angeles area.

We trust you will see the advantages of the very low heat rate and emissions to your project economics. We are here to help and can offer a complete package from engine generator sets to engineering and turnkey services. Engines are available for shipment first quarter 2008.