



MAN Diesel & Turbo Presents Two Staged Gas Engine Range at Power-Gen Europe

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New line of engines offers efficiency of more than 50 Percent

MAN Diesel & Turbo will introduce its new line of two-stage turbocharged gas engines at this year's Power-Gen Europe trade fair in Amsterdam. Both of the company's gas engine models 35/44G and 51/60G are now also available with two-stage turbochargers. Two-stage turbocharging achieves excellent efficiency thanks to a low-pressure and a high-pressure turbocharger arranged in series. The new versions further add to MAN Diesel & Turbo's comprehensive line of gas engines while profiting from the company's vast experience with two-stage turbocharged engines running on liquid fuel.

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The 35/44G TS and the 51/60G TS are spark ignited two-stage turbocharged gas engines. The 35/44G TS is available in 12V and 20V-cylinder versions with mechanical outputs of 7.4 MW and 12.4 MW. The 51/60G TS can be delivered as an 18-cylinder version with outputs of 18.9 MW and 20.7 MW. While the 18.9 MW aggregate reaches a mechanical efficiency of more than 50%, the 20.7 MW machine is the most powerful gas engine currently available on the market.

Two-stage turbocharging implies major benefits: The increase in turbocharging efficiencies in comparison to single stage turbochargers is mainly related to the intercooler set.

“The two-stage versions grant additional power and efficiency and allow for a higher power density and hence a more compact plant design“, says Dr. Tilman Tütken, Vice President at MAN Diesel & Turbo and Head of Power Plant Sales in Europe. “Our gas engines are ideally suited to help plant operators master the requirements of today's transitioning energy markets, where increasing amounts of intermittent renewable energy pose new challenges to flexible plant operation. We offer operational qualities such as fast starts and stops and ramp-ups, which are necessary to qualify for the participation in regulated energy markets, e.g. balancing energy or capacity markets. Thanks to optimized settings for Combined Heat and Power applications (CHP) – depending on the project – total efficiencies of above 90% can be reached.”

“MAN Diesel & Turbo offers the most comprehensive choice of gas engines available in the market. Our portfolio ranges from 7 to 20.7 Megawatts and



covers the full operational spectrum. No matter which challenge faced in energy generation, we have the engine and power solution to tackle it. We are ideally placed to serve the growing market for gas engine-operated power plants, for power outputs of up to 250 Megawatts for grid connected power or captive power applications. Of course we also offer engine combined cycle solutions. Our customers, plant operators and industry specialists are more than welcome to visit our booth at this year's Power-Gen Europe, where we will be pleased to introduce our gas engine technology in more detail", adds Howard Barnes, Senior Vice President at MAN Diesel & Turbo and Global Head of Power Plant Sales.

The MAN Diesel & Turbo booth can be found at position 1G7 in Hall 1.

About MAN Diesel & Turbo

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel engines and turbomachinery. The company employs around 14,500 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, India and China. The company's product portfolio includes two-stroke and four-stroke engines for marine and stationary applications, turbochargers and propellers as well as gas and steam turbines, compressors and chemical reactors. The range of services and supplies is rounded off by complete solutions like ship propulsion systems, engine-based power plants and turbomachinery trains for the oil & gas as well as the process industries. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand.