



Power-Gen 2017: MAN solutions for the growing need for decentralized power generation

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- **Engine and turbine-based systems for conventional fuels and renewable energy sources**
- **Electricity and heat-based solutions in a modular design**
- **MAN Diesel & Turbo exhibition stand: Hall 3, Stand 3HC74**

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At this year's Power-Gen exhibition in Cologne, Germany, MAN Diesel & Turbo will be presenting the most extensive range of technologies for decentralized power generation currently available on the market. "Decentralized power plants for flexible power generation are becoming increasingly important in Germany and across Europe," explains Dr. Tilman Tütken, Regional Manager, Europe at MAN Diesel & Turbo's Power Plant section. "For example, just a few weeks ago, the German Federal Network Agency confirmed additional requirements for a total capacity of approximately 1.2 GW for southern Germany alone. The units are needed to compensate for bottlenecks in the network. Our gas engines and turbine power plants are perfect for this, for above all else these power plants need to respond quickly if network elements fail."

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MAN Diesel & Turbo has already built a large number of decentralized power plants in Europe and Germany – including extremely efficient cogeneration systems. Most recently, EnBW Energie Baden-Württemberg AG contracted the company to build a 30 MW cogeneration gas engine power plant at its Stuttgart Gaisburg site. The power plant will be operated with three MAN gas engines of type 20V35/44G and will start operations by the end of 2018. "In Gaisburg, our modular power plant concept for cogeneration systems is used," Tütken continues. "The concept works on the modular principle and can be scaled at will from 7 MW upward."

At the Power-Gen exhibition, the company will also be presenting its range of turbine-based solutions for applications where the priority is on increased



heating requirements. "Our latest gas turbine series, the MGT, is now well established in the 6 MW class," explains Holger Kube, Power Generation Sales Manager in the Turbomachinery section. "As a stand-alone solution or in combination, MAN gas turbines service above all industrial applications which require both electricity and heat energy."

With reference projects around the world, the MGT series has now clocked up over 35,000 operating hours, for example with a project in the chemical industry in Germany: At the Rheinberg site, a cogeneration system based on the MGT series reduces the customer's dependence on power from the national grid and also supplies process steam to the production site.

Applications for MAN turbine-based solutions include the paper industry, the food industry and vehicle production. The technology is subject to a continuous, ongoing development process. "We recently integrated 3D printing into the production of gas turbine components. Our customers benefit from the advantages of additive manufacturing, such as reduced costs, increased efficiency or faster development cycles," Kube stresses.

At the Power-Gen exhibition, the company will also be presenting its broad range of steam turbines. With units in the power range from 1 to 160 megawatts, MAN Diesel & Turbo steam turbines are optimized for different industrial applications. Examples include communal power generation from biomass or emissions-free power from solar thermal energy, the generation of power and district heating from municipal waste and the efficiency-boosting use of industrial waste heat potential.

Find out more about the MAN Diesel & Turbo range at **Hall 3, Stand 3HC74** at the Power-Gen exhibition 2017 in Cologne, Germany.



(MAN_PowerGen_Gas_Advanced_Technology) MAN Diesel & Turbo has the most complete portfolio of technologies for decentralized energy production, such as with gas engines and turbines.

About MAN Diesel & Turbo

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel and gas 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.