



MAN is "ready for gas"

Munich, June 3, 2014

Presentation of innovative solutions for decentralized energy supplies at the "Power-Gen 2014" exhibition

MAN will be presenting its innovative and diverse production portfolio for decentralized power generation at the international energy exhibition Power-Gen 2014, to be held in Cologne from June 3 to 5. This year, everything is pointing to natural gas as an eco-friendly and efficient source of energy.

In the form of several exhibits, the company will be displaying its portfolio of natural-gas-powered engines and turbines and showing that it is well positioned in this field. At the MAN SE Annual General Meeting held two weeks ago in Hanover, Chief Executive Officer Dr. Georg Pacht-Reyhofen described the energy transition in Germany and the resulting trend towards decentralized energy supplies as a great opportunity for MAN: "In future, electricity must be generated where and when it is needed. Based on our power-plant solutions – notably our engines as well as gas and steam turbines – we can offer the perfect products for this. To be used for instance by larger enterprises for co-generation plants."

MAN will be showing its 35/44G gas engine, which offers a capacity of 10.6 MW, is highly flexible in reacting to load changes and can reach full-load operation within four minutes. This makes it ideally suited for use as a standby engine to take over whenever regenerative energy sources, such as wind or solar plants, are unable to supply adequate power. The engine is aimed at both industrial bulk consumers and power producers and can be used in combined heat and power plants. It is also extremely effective, its electrical efficiency reaching 47 percent and even exceeding 50 percent in combined operation with an MAN steam turbine. In the case of combined heat and power plants (CHP), total efficiency levels of up to 90 percent are possible. This type of engine forms the core of the gas power plant which MAN is currently constructing for Volkswagen in Braunschweig.

The steam turbines produced by MAN Diesel & Turbo are likewise strong partners for renewable energy and decentralized power generation. These are for instance used in Shams 1 in Abu Dhabi, the world's largest solar thermal power plant generating 125 MW, in a waste-heat generator set for

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the smelting works belonging to Finnfjord AS in Norway and for current waste-to-energy projects. MAN Diesel & Turbo is especially well-positioned in the sector of thermal waste treatment, with reference projects in Bremen (50 megawatts), Turin (66 megawatts) and London (80 megawatts).