



News service MAN Group

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MAN TURBO supplies two compressor machine sets for ORYX GTL, the largest GTL plant in the world

MAN Turbomaschinen AG, Oberhausen/Germany (MAN TURBO), is supplying the compressor machine sets for two air separation plants for the construction of a new two-train Gas-to-Liquids plant (GTL plant). The purchaser is Air Products, London/GB; the site is Ras Laffan, Qatar. The end user and operator of this GTL plant – the largest in the world on a commercial scale – is the company ORYX GTL Limited (Q.S.C.), a joint venture of the companies Qatar Petroleum and Sasol Synfuels International (Pty) Ltd. The GTL plant will produce 34,000 barrels per day.

The scope of supply comprises two compressor machine sets, each consisting of an axial compressor with 55 MW and a flow rate of 700,000 m³/h, a steam turbine with 80 MW and a radial compressor with 25 MW. In addition to the complete compressor control system **turbolog**, the scope of supply also includes the entire infrastructure such as the accompanying transmission gears, couplings, piping, oil supply and steel base frames.

The axial compressors and steam turbines are built in Oberhausen, the radial compressors are manufactured at MAN TURBO in Zurich/Switzerland and at MAN TURBO in Schio/Italy and then delivered to Oberhausen where the two identical compressor trains are put together on steel base frames. One train is then tested as a complete unit on the large machine test stand. Each single modular unit weighs about 500 tons. Each compressor train compresses air for an air separation plant with a capacity of 3,500 tons of oxygen per day. The oxygen is used in the GTL process which converts natural gas into high quality sulphur-free liquid.

Order with an abundance of superlatives

After it has been put into operation the GTL plant will be the largest in the world. Both the compressor trains used and the two steam turbines will then be the largest to be operated in the world. The same applies for the two-train air separation plant each with 3,500 tons per day and train. Furthermore, the two modules each weighing 500 tons are the heaviest packages ever to be built by MAN TURBO.

The expert knowledge and competence of MAN TURBO and the ability to build and completely test such packages was an important decisive factor for granting this order to MAN TURBO. The combination of the different sites of the company (Oberhausen, Zurich, Schio/Italy) whilst building the components of these turbomachinery trains underlines the flexibility of the company for supplying these sophisticated units.