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## **MAN compressor technology for offshore gas production in China**

**MAN Diesel & Turbo Schweiz AG**  
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**CNOOC China Limited Zhanjiang Branch has commissioned MAN Diesel & Turbo to supply a total of six compressor trains for the DONGFANG 13-2 Gas Fields Development Project in the South China Sea.**

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"We are delighted that a renowned company such as CNOOC Ltd. has demonstrated its confidence in our compressor technology", states Ronnie Su, Head of Sales & Contracts Turbomachinery of MAN Diesel & Turbo in China. "This order for Dongfang emphasises how the market is developing: the growing focus lies on reliable gas supply, which supports China's efforts to optimize its energy mix toward cleaner sources and reduce its reliance on coal. MAN Diesel & Turbo has the right technology to fully support this goal."

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The compressor trains from MAN Diesel & Turbo Schweiz AG are to be used in gas reinjection and export on new platforms in the Dongfang 13-2 gas field, located in Yinggehai Basin of the Beibu Gulf with an average water depth of approximately 70 meters.

The total order comprises three wet gas and three dry gas compressor trains with intercooled barrel type compressors – all driven by electric motors with variable frequency converter. The wet gas compressor trains will be built as standardized and modularized Upstream Packages (U-Pac<sup>®</sup>).

"Today's oil and gas industry is asking for best value solutions to tackle the cost constraints and for fast delivery times to start production as soon as possible," explains Basil Zweifel, Head of Oil & Gas Upstream at MAN Diesel & Turbo in Zurich, "MAN's standardized Upstream Packages address these requirements to the full extent without compromising on safety and reliability. The modular approach of these packages makes it possible to cut lead time and costs considerably. Size and weight of the compressor packages are also significantly reduced, resulting in additional benefits especially for our offshore application customers."

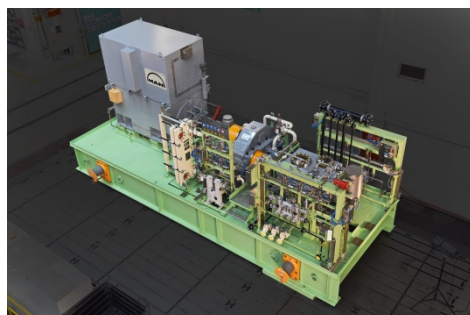
CNOOC Ltd. is the biggest producer of offshore crude oil and natural gas in China and one of the largest independent companies worldwide in this industry. The group mainly engages in exploration, development, production and sale of crude oil and natural gas.



The South China Sea is home to vast reserves of crude oil and natural gas. CNOOC Ltd. has initiated a further development stage of the Dongfang natural gas field. Additional gas exploitation in the area is part of the country's long-term goal to satisfy its growing energy consumption.



Visualization of a platform in CNOOC's Dongfang 13-2 gas field



MAN's standardized and modularized U-Pac<sup>®</sup>  
(Upstream Compressor Package)

**About MAN Diesel & Turbo**

Based in Augsburg, MAN Diesel & Turbo is the world's leading supplier of large diesel engines and turbomachinery. MAN Diesel & Turbo employs around 14,900 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, India and China. The product portfolio includes two- and four-stroke engines for maritime and stationary applications, turbochargers and propellers as well as gas and steam turbines, compressors and chemical reactors. Complete solutions such as ship propulsion systems, engine power stations and turbomachinery sets for the oil and gas and process industry round off the scope of supply and services. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand.