

Market Update Note



7 June 2019

New ME-GA dual fuel gas engine

MAN Energy Solutions develops low-pressure two-stroke gas engine

The ME-GI and ME-LGI engines have now been in the marine market for 6 years and have accumulated more than 500,000 service hours. More than 280 ME-GI/ME-LGI engines have been ordered for different applications and for different fuels.

The ME-GI/ME-LGI engine designs are based on the Diesel combustion principle, which offers by far the most superior fuel consumption, low greenhouse gas emissions, and the most fuel-flexible dual fuel technology on the market. We will therefore continue to develop and design-optimize the ME-GI/ME-LGI engines, and new emission reducing fuels such as ammonia will be introduced when the market demand arises. The ME-GI/ME-LGI engine design will continue to be available for the entire engine portfolio.

Twin engine LNGC vessels currently represent the biggest market for the ME-GI engines. This market segment has shown a strong interest in low-pressure dual fuel gas engine systems where first cost is prioritized. The main reason is the relatively high first cost of the fuel gas supply system including the high-pressure compressor for boosting up the pressure of the boil-off gas to the 300-bar injection pressure needed for the ME-GI. A compressor and an investment only used for the LNGC application.

We are therefore launching the ME-GA (gas admission) low-pressure dual fuel gas engine to cover this specific segment. The ME-GA engine will be a supplement to the existing, successful dual-fuel ME-GI engine that is used on LNGC vessels today. The project is done in close coopera-

tion with Hyundai Heavy Industries, Engine and Machinery Division (HHI-EMD) who will be a valuable partner in the development of the new ME-GA low-pressure dual fuel gas engine.

The ME-GA engine will initially become available in the 70-cm bore engine size. The designation of an ME-GA engine would then be, for example: 6G70ME-C10.5-GA.

The first ME-GA engine can be installed in an LNGC vessel in the first half of 2022.

Questions regarding this Market Update Note should be directed to our Two-stroke Sales & Promotion department at kjeld.aabo@man-es.com

See also press release of 22 May 2019: [MAN Energy Solutions Announces Development of Low-Pressure, Two-Stroke, Gas Engine](#).

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