

Thermo Efficiency System (TES) Reduces Fuel Costs and CO₂

Copenhagen, 20 July 2005. MAN B&W Diesel's original TES concept of combining a power turbine and a turbo generator has been updated and optimised for today's larger MC and ME range of engines. TES offers owners an efficient method of generating electricity, via waste heat recovery and efficiency utilisation, while providing savings in both fuel consumption and a reduction in CO₂ emission – all without affecting shaft output.

A new technical paper from MAN B&W Diesel entitled 'Thermo Efficiency System (TES) for Reduction of Fuel Consumption and CO₂ Emission' details how owners can save over \$1,000,000 a year on fuel costs with the TES system. The payback time of down to five years for larger vessels makes this updated system even more attractive.

Two versions of the environmentally-friendly power generation system are available. The total output of the TES system with dual pressure boiler and steam turbine will have an output as high as 11.2% of the engine shaft power. A single pressure TES version offers a unique opportunity to owners to utilise all the advantages of TES a in simple, reliable and cost-effective system. Up to 7,500 kW of electricity can be generated from MAN B&W Diesel's simple TES with a 12K98ME-C.

Confirmation tests were successfully completed in early July 2005 on a 10K98MC engine at Mitsui in Japan. The results verify calculations and expectations related to heat load, emission data and performance figures.

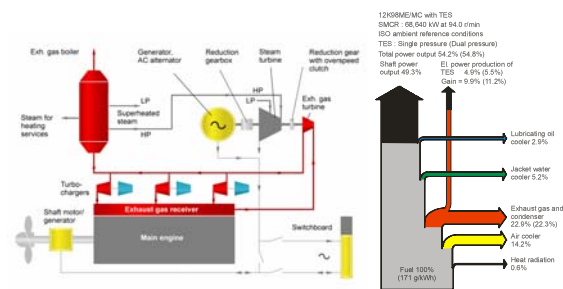


Image text, from left:
TES schematic
Heat balance diagram with TES

Note to the editor. A complete version of the paper, together with all text and images, is available by contacting MAN B&W Diesel A/S, PR & Information Dept., Teglholmegade 41, 2450 Copenhagen SV, Denmark. The full paper can be obtained at: www.manbw.com/press

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