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Thursday 16 September 2010

GENERAL MEETING at 14.00 hours

Followed by

Paper 580:

Stationary two-stroke low speed diesel engines running on biofuel  
by Helle Gotfredsen  
of MAN, Denmark

MAN Diesel & Turbo UK Ltd, 1 Mirrlees Drive, Hazel Grove, Stockport, SK7 5BP

### **Synopsis:**

The stationary power plant market has also been affected by the green wave. In order to meet market needs MAN Diesel & Turbo has investigated the possibilities for the two-stroke low speed diesel engines of the MAN B&W design with a positive result. The biofuel oil is delivered in a variety of qualities and for the refined biofuel types this area is already covered by the medium speed engines. Therefore, it was logical to investigate the possibilities of running on crude biofuel oil. As a result of this approach MAN Diesel & Turbo has prepared a guiding biofuel oil specification. MAN Diesel & Turbo has designed the 7L35MC-S engine type, which has already been running at Brake Power Plant in Germany for more than 6000 hours on crude palm oil. Currently, an order for two engines of the 7K60MC-S type, each developing 13.9 MW at 150 RPM, will be delivered for the locations of Beckton and Southall, UK. The diesel engines for UK will not only produce power, but also deliver heat to a gas expander unit.

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