



# contract report



**Customer:**  
Moss VT



**Location:**  
Ostfold, Norway

**Boiler Type:**  
2.4 MW Firetube

**Burner Model:**  
LCO21/36

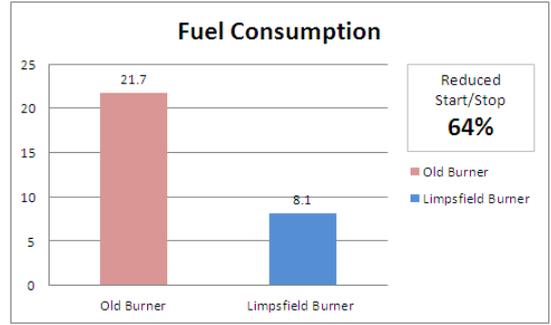
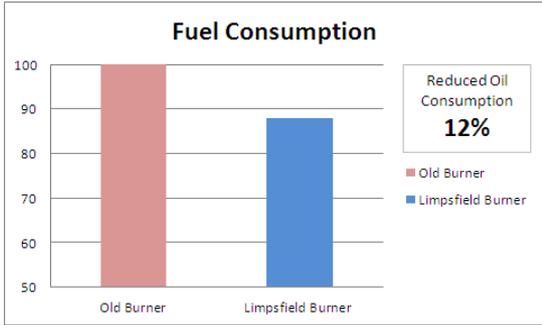
**Fuels:**  
Light Oil

**Fuel Savings:**  
12 %

Moss Varmeteknikk, a Limpsfield Technology Centre located in Norway, implemented a project for a client in early 2013 where a highly efficient Limpsfield LCO21/36 Burner was retrofitted to 2.4 MW (8.5 MMBTU/hr) Termo Trading Boiler.

The Limpsfield burner was required to fire Light Oil (#2 Oil) @ 3% O<sub>2</sub> throughout the firing range, and to meet local performance codes. These specified a NO<sub>x</sub> emission of 250 mg/Nm<sup>3</sup> (121ppm) and a noise limit of 85 dB(A). The Limpsfield Burner met the required NO<sub>x</sub> emissions without the need for FGR, and a Limpsfield sound attenuator was fitted to the combustion air fan to help meet the acoustic limit.

The Burner was to be controlled using the Autoflame Mk7 combustion management system, which works effectively with the Limpsfield Burner to provide guaranteed performance across the firing range. Fuel savings for this project were estimated to be 8 -10%.



Since the installation of the Limpsfield Burner, Moss have reported a reduction in oil consumption of 12% when compared to the old burner. When coupled with a previous fuel usage of around 200 kg/hr, this translates to significant savings for the client.

Another benefit of the Limpsfield Burner against the old burner was the reduction in "start/stops" per day, where the burner was turned off due to minimal demand. The stopping and restarting of a burner is an inefficient way to operate, but with Limpsfields higher turndown ratios (6:1 for this project), the need for shutting down the burner was reduced by 64%, leading to better efficiency and contributing to the great fuel savings.



For more information on the Limpsfield burner range, please do not hesitate to contact us.

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