

Bioenergy in Use

Beaulieu National Motor Museum – Providing Efficient Heat across a Commercial Complex

The national Beaulieu Motor Museum replaced their 600 kW oil boiler for a 400 kW woodchip biomass boiler in 2015. The system, installed by Dunster Energy, provides water and space heating across the museum complex, which includes the main museum, the vehicle collection, restaurant, archive with learning centre and main JMB offices. Biomass now provides 90% of the commercial complexes heat demands throughout the winter.

The system design includes a sophisticated building management system combined with energy efficient distribution pumps, allowing for weather compensation across the whole site and individual control of each building. This has meant an efficient heating system that uses less heat and fuel.

The switch from oil to biomass provides savings on heating bills, while support through the non-domestic RHI has helped return on the capital expenditure. The museum has also made significant carbon savings, with an estimated annual saving of 385 tonnes of CO₂ equivalent per annum.

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