



CASE STUDY

BIOMASS FUEL SUPPLIER, BRISTOL

Biomass Installation

CASE STUDY DELIVERED BY



Overview



Challenge:

A biomass fuel supplier in Bristol required an efficient system to dry wet wood chips, making them suitable for resale to customers. The challenge was to develop a system that could handle high-moisture content fuel while maximizing efficiency and profitability. Additionally, the client wanted a sustainable solution that qualified for the Commercial Renewable Heat Incentive (RHI) scheme.

Solution: MJS Energy designed and implemented a bespoke biomass heating and drying system that included:

- A 999kW Kalvis wood chip boiler from Lithuania, specifically designed to burn fuel with high moisture content, enabling the client to utilize a significant amount of waste wood efficiently.
- A large drying floor, allowing for optimal heat distribution to dry the wood chips effectively and consistently.
- A turnkey solution, including system design, full installation, and integration with existing operations.

An international quality check, where MJS Energy visited the Kalvis manufacturing facility in Lithuania to inspect the boiler during its final production stage, ensuring its quality before delivery to the customer.



Transitioning from Fossil Fuels to a Sustainable Biomass Heating System



Outcome: The installation of this biomass heating and drying system provided the client with:

An efficient and sustainable drying solution, improving the quality of the wood chips for resale.

Cost savings and additional revenue opportunities, by utilizing waste wood as a fuel source and producing high-quality dried wood chips for customers.

Qualification for the Commercial RHI scheme, offering financial incentives for the use of renewable heating technology.

Enhanced operational reliability and efficiency, ensuring long-term sustainability and profitability.

By partnering with MJS Energy, the biomass fuel supplier successfully transitioned to a highly efficient drying system, allowing them to maximize the value of their wood chip products while reducing waste and operational cost



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RHI Accreditation & Financial Incentives



One of the key advantages of installing this biomass system was that it qualified for the Renewable Heat Incentive (RHI), a UK government scheme designed to encourage the adoption of renewable heating technologies. Under this scheme, the estate received substantial financial payments based on the heat generated, offsetting installation costs and creating an additional revenue stream.

