



CASE STUDY

LARGE NURSING HOME IN HEREFORDSHIRE

Biomass Installation

CASE STUDY DELIVERED BY



Overview



Challenge:

The client, a large nursing home in Herefordshire, sought a renewable heating solution to replace their existing oil-fuelled boiler system.

They aimed to reduce reliance on fossil fuels and take advantage of the Renewable Heat Incentive (RHI). The existing heating system was inefficient, costly, and environmentally unsustainable.

Additionally, the nursing home consisted of two separate buildings, requiring a tailored heating approach to ensure efficient distribution of heat.

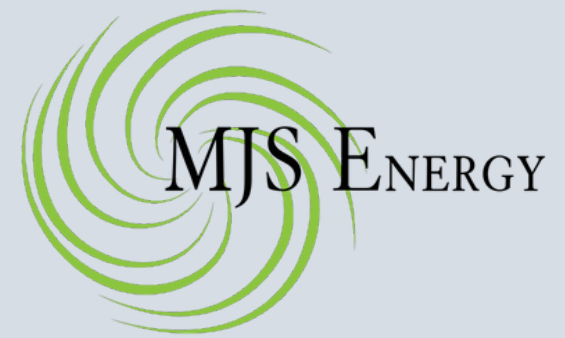
Solution: MJS Energy was contacted to design and implement a renewable heating system that would provide sustainable, cost-effective, and reliable heating for the facility. After assessing the site and understanding the client's needs,

MJS Energy proposed and installed a cascade system featuring:

- Two 99kW Lindner & Sommerauer wood pellet boilers to heat one part of the building.
- A 150kW Lindner & Sommerauer wood pellet boiler to heat the second part of the building.



Transitioning from Fossil Fuels to a Sustainable Biomass Heating System



Given the size and heating requirements of the site, MJS Energy provided a full turnkey solution that included:

Designing a renewable heating system to efficiently replace the oil-based system.

Constructing a new energy centre to house the biomass boilers.

Building a dedicated wood pellet fuel store to ensure a consistent and sustainable fuel supply.

Integrating the new system with the existing infrastructure to provide seamless heating across both buildings.

Managing the full installation process, including commissioning and regulatory compliance.

Outcome: The installation of the new biomass heating system provided the nursing home with:

- Significant reduction in carbon emissions, aligning with sustainability goals.
- Lower operational costs due to the efficiency of wood pellet boilers and the financial benefits from the RHI incentive.
- Improved heating reliability and performance, ensuring a comfortable environment for residents and staff.
- Enhanced energy security, reducing dependency on fluctuating fossil fuel prices.

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.