

EPR: Energy Efficiency

Site Name: J & A Moon

Site Address: Yarrow Hey

Energy Audit

In order to monitor energy usage at Yarrow Hey Farm, usage of fuels and electricity will be recorded, allowing the business to track and set targets to reduce usage.

The business already uses solar panels, with approximately 30% of the business' electricity consumption coming from these, and the other 70% direct from the grid.

All sources of energy relevant to the business have been considered and reviewed, with details given in the below action plan.

Energy Action Plan

As noted above, the energy sources used by the business have been considered and recorded below, which will be reviewed annually. Where there is scope to reduce or use alternative energy sources (e.g. more renewable electricity), then targets will be set.

It is in the businesses' best interest to reduce energy consumption and dependency on fossil fuels both in terms of financial and environmental influences. The business is committed to this, and are continually looking at ways in which they can improve.

Energy Source	Use
Electricity	Lighting, heating, ventilation, computer control systems, feed augers, water pumps. In 2024, the electricity purchased from the grid equated to 71.47tCO ₂ e. The savings from producing 73520kwh from the solar is 28.7tCO ₂ e (using an emission factor of 0.04tCO ₂ e from the Farm Carbon Calculator).
Diesel	Standby generator, pressure washer and vehicles. In a typical year, Yarrow Hey uses 30,000 litres of red diesel approximately. Going forward this will be monitored in hopes of reducing these quantities.

Energy efficiency measure	CO ₂ savings
LED Lighting	Buildings all operate with LED lighting. Older buildings have been updated and LED has been implemented as this happens.
Solar Power	The farms initial source of energy comes from the solar panels on site. This is topped up by the mains but powers all buildings / lights.
Insulation	Buildings are insulated on walls or roofs.
Ventilation and heating	The farm has a mixture of ventilation types. Some are fully operated meaning they work most efficiently based on animal need and also energy consumption. Others require human input, this is monitored each day.
Appliances	All appliances are switched off when not in use to save power.