

A 1.25MW Biomass Boiler and 65kWe Organic Rankine Cycle

Example Project

A business is expanding into new buildings to extend operations.

As the business is large and has year round requirements for heat and power, Novalux recommend that they install a combined heat and power system, comprised of a Waste Incineration Directive (WID) approved biomass boiler and Organic Rankine Cycle (ORC).

The system is able to burn low cost grade C waste wood, in addition to many other materials, giving the company flexibility when it comes to future fuel prices.

Installing an ORC at the same time means the business can use excess heat from the biomass boiler to produce low cost power.



Income & Savings

As energy corporations raise prices, more businesses are choosing to opt out of old technology and invest in their own systems so that they can determine their own fuel prices.

As renewable technology is still supported by the RHI, choosing to install now means receiving a sizeable income from the government for the next 20 years for making the switch.

Excess energy export PA: £49,184

Biomass RHI payments PA: £94,720

CHP RHI payments PA: £179,470

Payback: 3 years

Total net benefit over 20 years: £5,718,673

