



Bluestone Resort Wales

Two ETA 500kW woodchip boilers

Scheme Heating the Blue Lagoon waterpark

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Boiler and plant	Two 500kW ETA Hack wood chip boilers, each with 15,000 litre accumulator tank.
Fuel	The boilers use wood chip and produce in excess of 5,600,000 kWh of heat.
Chip storage	The chip is ordered and delivered by PBE Ltd depot opposite.
Grant / Funding	The project was self-funded and is accredited as a Renewable Heat Incentive installation.
Savings / Investment	Income from RHI substantially exceeds fuel costs .
Commissioned	The two boilers were commissioned in April 2016.



Project overview

Bluestone Resort Wales is a luxury holiday park, set in 500 acres of rambling woodland in Pembrokeshire. They wanted an environmentally friendly, sustainable, and reliable heat source for their large Blue Lagoon waterpark and Adventure Centre. We fitted two ETA 500kW woodchip boilers in an energy centre, to supply sufficient heat for their demand. The boiler installation was eligible for the commercial RHI tariff thus greatly improving the financial attractiveness of the scheme.

System Design and installation

PBESCO Ltd designed the biomass system and energy centre layout. They constructed the centre, the fuel hoppers, and installed the boilers, accumulator tanks and associated fittings and pipework.

PBESCO Ltd continue to maintain and service the boilers and energy centre. They also supply the woodchip for fuelling the energy centre.

PBESCO Ltd
7 Merlin's Court,
Winch Lane,
Haverfordwest,
Pembrokeshire,
SA61 1SB.

info@pbe.org.uk
01437 761320

