

Heating and Insulation Upgrade

The Watershed

*The Watershed is a sport and leisure facility built in 2008. The sport complex has a **large electricity, woodchip and gas demand for heating**. However, after successfully integrating a tank into the biomass boiler system and upgrading the pool cover system, the benefits and cost savings are clear. The 3 Counties Energy Agency (3CEA) through the Sustainable Energy Authority of Ireland's Better Energy Communities programme is a one stop shop for energy efficiency and renewable energy projects.*



Summary

Company name:	The Watershed
Project actions:	Integrate a Combi buffer tank into the biomass boiler system and modify the heating system. Replace current pool cover system with upgraded econo-therm cover.
Finance source:	Internal
Additional funding:	SEAI BEC 2018 programme
% funding:	30%
Grant amount:	€ 10,052
Total project cost:	€ 33,507
25-year savings:	€ 225,820
Simple payback time:	2.6 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	1,226,421 kWh	€ 412,135.97	264.8 tonnes
Imports After project	1,200,613 kWh	€ 403,103.17	259.5 tonnes
Savings	25,808 kWh	€ 9,032.80	5.3 tonnes

Benefits

Thanks to the heating and insulation upgrades, The Watershed saved money and reduced its carbon footprint through the BEC 2018 Programme.

The integration of a tank to the heating system has helped increase the thermal comfort of the watershed for its users and reduced the number of hours the heating is required.

The replacement of pool cover has led avoid the heat loss when pool not in use.