



Sustainable home extension



Ian and Liz Bowen had decided on a complete renovation and wanted to increase their living space as the family was growing.

Detached 1840'S Georgian House

Ian and Liz Bowen contacted Ashgrove in December 2015. Their architect, Robert Cummins of Cummins and Voortman Architects, recommended Ashgrove as they had worked together on several projects before.

The project was one of a kind. It is a 5,600 square foot (520 m^2) period house built in 1840. The couple had moved into the house in 2005 and the previous heating system was gas and an Aga-kerosine stove which heated the ground and first floor.



Thermia Atec 18 kW air source heat pump



Thermia Atec Plus unit

Previously, the basement hadn't been renovated or heated. The couple had decided on a complete renovation and wanted to open up the basement area to increase their living space as the family was growing.

The household comprises of two adults and three teenagers. One of their main concerns was the size of the house. Incorporating

the third floor was really going to expand the living area.

To overcome this, it was decided that the original gas boiler could be linked in to assist the heat pump. The ball was set rolling by their architect. A site visit was arranged and both Mike and Conor O'Brien assessed the project. Work began from there. The house was fitted with new aluminium

radiators. The 18 kW Thermia Atec heat pump was installed in October 2016 with a 500 litre water cylinder and outdoor sensor. The clients were overwhelmed with the work done by the O'Brien Brothers and Ashgrove.

"We have no regrets! It has been a smooth process. This is an efficient and effortless source of heating. Dealing with Mike and Conor O'Brien was a pleasure and were always available if needed." - says Ian

Fact Box

Before

- House size 520 m² heated with oil & coal
- Annual heating cost € 6,500.00

After

- 18 kW Atec air source heat pump with Plus unit & 500 litre cylinder & 200 litre buffer tank

TOTAL HEATING COST IS NOW ONLY € 1,860.00 PER YEAR!



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