

# Domestic Heating

## Case Study

4 Bed Detached Refurbishment  
Bedfordshire, August 2007

Making a  
World of  
Difference



**RENEWABLE SOLUTION PROVIDED**  
Ecodan helped this family lower their annual fuel bills by 36%.

# Young working family wanted to be greener...

This young working couple live in Bedfordshire with their two small children and wanted to do more for the environment by reducing the amount of CO<sub>2</sub> emitted by their home.

With traditional heating systems being a major contributor to CO<sub>2</sub> emissions and in the grip of rising energy costs, the couple decided to look for a more efficient means of heating. They were keen to reduce their heating bills and the impact on the environment without compromising their comfort levels.



Air Conditioning | Commercial Heating  
Domestic Heating | Photovoltaics



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### Installation Summary

4 bed detached house built in  
2000

Total living space 177m<sup>2</sup>

Replaced existing A rated gas  
boiler with 8.5kW Ecodan

Installation took 2 days

Annual running cost of £545

Having also converted the double garage into a more useable family room, they needed a heating system that could cope with heating the new living space effectively and efficiently.

**Installing an Ecodan air source heat pump system was the perfect solution for this family.**

Able to maintain a more constant temperature in their home and able to provide all the hot water they need, the Ecodan system has proven to be a significantly more efficient alternative to the original gas boiler.

Quick and easy to install, Ecodan is quiet to run and designed to replace traditional gas or oil boilers with the minimum of cost and disruption. Using advanced heat pump technology, this revolutionary system is perfectly suited to under-floor heating and is designed to make much more efficient\* use of appropriately-sized radiators - heating the house and hot water for a great deal less.

**Ecodan helped realise this family's ambitions by reducing their CO<sub>2</sub> emissions by 50% and lowering their annual fuel bills by 36%.**

*\* For every 1kW of electricity fed into the outdoor unit of an Ecodan heating system you could get at least 3kW of heating energy. The overall system efficiency and energy savings will depend on how it compares to the heating system it replaced, satisfactory system design and installation, the operational settings and how the heating system is used.*



Changes for the Better

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Certificate Number: MCS HP0002  
Product Reference: PUHZ-W50V1A-(BS)  
PUHZ-W50V1A2-(BS), PUHZ-HW140V1A2/1A2-(BS)



www.greengateway.mitsubishielectric.co.uk  
Mitsubishi Electric's commitment  
to the environment

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