

CASE STUDY

Replacing Oil - fired boiler with wi-fi Electric Heating System & P.V.



Our client Derek S, aimed for both a unique controllable and highly efficient new heating system, but also a real attractive alternative to the inefficient ugly oil fired wet system and rusty radiators that were currently in place. Cut the existing heating bills by 30% while maintaining a comfortable home, a 1970 large 5 bedrooms bungalow.

Derek:
Replacing our oil central heating systems with a low carbon heating system. My wife and I have seen and heard news that gas boilers have been phased out, and will be banned in the UK very soon, coincidentally our inefficient gas boiler reached the end of its working life, therefore we had to decide whether to replace it, or to make the change to a greener, low carbon electric heating system

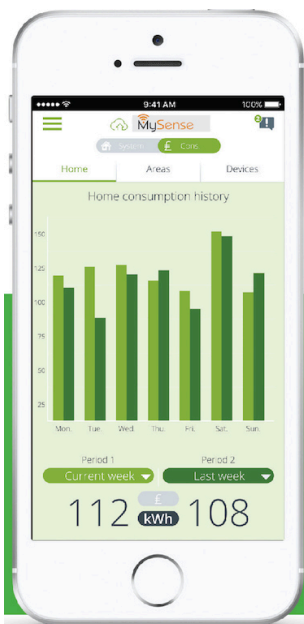
this was not a viable affordable, realistic alternative, and electric heating was a possibility we were willing to consider as a form of green heating.

Q: Can you run a heating system from solar panels?

We found Intelli Heat a local well established company, and after a telephone consultation with Simona we also discovered that Intelli Heat radiators can be powered by Solar panels which in addition to electric heating would have been the best solution to our new heating requirements and the environment.

As boilers are not the best option for the environment, we wanted to focus on a low carbon heating alternative, and with the cost of running our 5 bedroom house with oil at £ 3000/year, we were looking for greener options that not only would be kinder to the planet but could also save us money in running cost.

Installing a heat pump would have been the obvious choice, but it soon became clear that because of the fabric of our property, costs and other factors we had to consider,



Once the system was installed, we realised that electric heating is a whole world away from pumping a 35KW boiler to heat every room to the same temperature, we now have total control over every individual radiator, or zone, choose at what temperature we wish to heat individual rooms and at what times conveniently from a mobile device or web APP platform.

Choosing the right heating controls is just as important as choosing the right heating system.

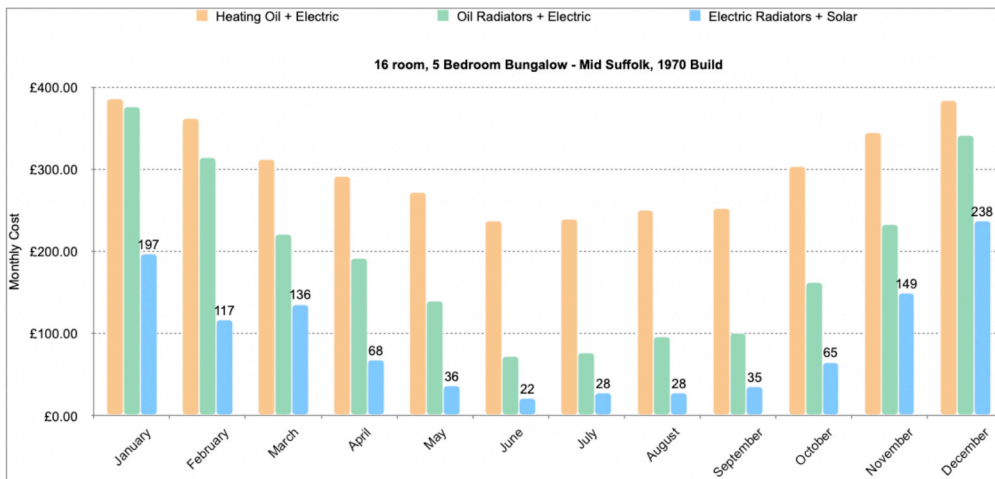
Each radiator has its own lcd thermostat and programmer, and a wi-fi connection straight to the secure APP dashboard; therefore there is no need for wires, thermostats, sensors, drilling or structural changes to the existing building, and there's no need to employ a team of plumbers for the installation and programming.

We finally settled for the Wi-Fi iSense pure aluminium range. With built in intelligent energy savings features, precise controls and a cloud base dedicated heating management APP, the iSense gives us full power to control and manage our heating expenditure* while substantially lowering our impact on co2 emissions compared to our old fossil heating system.

Conclusion

There is no need for maintenance, no subscription is needed and it comes with a manufacturer's warrantee of 10 years. I think we have made the correct choice!

* Previous oil fired boiler running costs / year = over £3000
 iSense actual running costs = around £1300
 Which is a 60 % saving on heating bills consumption, with a ROI of only 12 months and a 10 years warranty.



Site was upgraded (re-insulated, Solar Hot Water, 4KW Solar PV) in 2022. Usage data gathered from 2018, 2021 and 2023 (including projections for 2023). Comparison provided at 0.1525 per kWh = 2021 electricity price equivalent. Heating Oil calculated at Q1 2023 average prices (0.81 per litre, ONS), averaged over 12 months.



Watch the full Testimonial VIDEO

Derek S. East Anglia - UK 2023

Derek was clearly looking for a controllable heating system, with a pleasant Aesthetics, and ensure comfortable whilst avoiding wasting energy by only heating the rooms need it and enabling each room to have its own customisable target temperatures.

Derek S. East Anglia - UK 2023



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