



NHS Aviemore

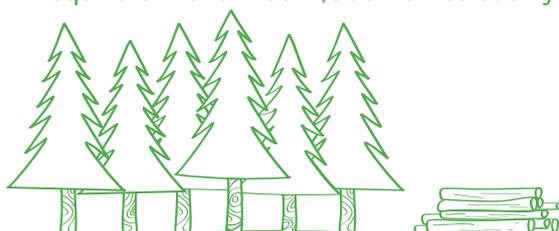
Installation of Biomass Heat Cabin at Aviemore Medical Centre as part of wider NHS Highland initiative to save £2M a year.

In 2013 NHS Highland commissioned HWEnergy to install seven heat cabins and four additional biomass systems across 10 sites as part of its ambitious carbon reduction plan.

NHS Aviemore is one of these sites. Previously paying £12,000 a year for heating and hot water using their oil based system, the new biomass installation has reduced their fuel costs to just £5,000 a year. In addition they receive an RHI income of £10,000 a year. Combined, this makes a dramatic difference to operating costs, allowing money to be ploughed back into patient care and further energy saving measures.

In addition, the new biomass system means carbon savings of 35 tonnes per annum.

In total NHS Highland aims to deliver 60% of its heating requirements using biomass, saving 9,000 tonnes of carbon dioxide per annum, the equivalent of almost 1,800 homes each year.



Facts and figures

Project	Design, Build, Operate
System and solution:	Biomass Heat Cabin with ETA Hack 90kW boiler
Fuel demand:	Wood pellet
Cost savings:	40% against oil
CO2 savings:	35 tonnes per annum
RHI income:	£10,000 per annum
Ongoing:	RHI Service Plan with HWEnergy providing ongoing service and maintenance and fuel supply.

Making biomass heat work for you



Project details

Following a detailed site inspection, the Biomass Heat Cabin was built off site and pre-equipped with boiler, fuel store and all necessary monitoring and interface equipment. All HWEnergy's Heat Cabins are configured to be essentially 'plug and play' meaning they can be moved, re-sited and re-configured as required. This provides a level of future proofing unavailable with more traditional systems. The flexibility of the technology, and the structure of the RHI payments mean that such moves have no negative impact.

Wood pellets were selected as the best fuel type due to the requirements of the building and access to the site and these are supplied by HWEnergy with fuel deliveries taking place every month at peak periods.

HWEnergy now ensures optimum performance of the system by supplying all fuel deliveries and providing service and maintenance checks and support on an agreed cycle with an emergency response mechanism in place should that ever be required. This comprehensive back up is supported by the presence of local engineers and remote diagnostics into Head Office.

"For an estate that has seen a rise in costs from £5.2M to £8.4M in the last 3 yrs, a large scale changeover to renewables is the only appropriate answer. Investing in biomass to this level generates large enough returns to provide a self-sustaining programme of change to renewables.

Our intention is that biomass will take on 60% of the heat load of NHS Highland, reducing carbon emissions by over 9000 tCO₂e a year AND providing a net financial saving of at least £2M/yr and significantly more through time. Savings will mean more of the health monies in Highland can be spent on core frontline services.

With biomass we can start to be in control of our costs and can project ahead without any uncertainty over variables in oil prices. You can't plan for fluctuations of the futures market but you can plan for something that is locally and readily available and for which there are no variables attached. Biomass works on every level."

Gordon MacDonald, Energy and Sustainability Manager, NHS Highland



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