

MICROGENERATION

Combined Heat and Power (CHP)



What is it?

Combined heat and power systems generate both heat and electricity simultaneously from a single fuel. A CHP system is effectively a mini stand-alone power plant that replaces the existing boiler and is usually located in an outbuilding or utility area.

How does it work?

A CHP unit works by burning fuels, such as natural gas or biomass. The heat generated is used to supply the central heating and hot water systems as usual. In addition to this, electricity is produced from the heat, which rotates a generator located within the flue.

Benefits

- > Reduce your electricity bills
- > Reduce your heating bills
- > Protect yourself against rising energy costs
- > Reduce your carbon footprint.

What are the potential savings?

Savings would be gained by using the energy you generate rather than buying it from a gas or electricity supplier.

What are the typical costs?

If you were to have this measure installed without Green Deal, this would typically cost you upfront:

> **£5,000 - £10,000 depending on the size of system**



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How can I benefit from Green Deal?

By taking advantage of the Green Deal, you can receive finance to have these energy-saving improvements installed in your home at no full upfront cost. The savings you make will always be greater than the cost of repayments on the measures installed.

Where and how is it installed?

Larger CHP units are often located in an outbuilding or utility area. Micro-CHP units are also available and are typically the same size as a conventional boiler. A CHP unit generates two forms of energy and therefore must be connected to both the existing heating and electricity systems within the home.

Will it be suitable for my home?

A micro CHP unit will be suitable for many homes as a direct replacement for a conventional boiler. However, larger CHP systems will only be suitable for larger properties with space to accommodate the unit. In some circumstances, additional space will be required for the storage of biomass fuel if no mains gas supply is available. Your NICEIC Green Deal Advisor will provide you with impartial advice on the measures most suitable for your home.

What do I need to do next?

Step 1

Get an energy assessment report completed on your home by an NICEIC Green Deal Advisor.

Step 2

Present your report to a Green Deal Provider who will assess whether to approve the finance on the measures you wish to install and coordinate your Green Deal plan.

Step 3

If approved, the Green Deal Provider can arrange for the installation to be carried out by an NICEIC Green Deal Installer.

Step 4

Once installed, your Green Deal payments will be included as instalments in your energy bill. This will be arranged for you by your Green Deal Provider and your energy supplier.

[Click here to join](#)
or call **0843 290 3518**

to find a certified **Green Deal** Advisor, Provider and Installer to start your Green Deal now.