



The Baxi Ecogen™ Dual Energy System
The domestic gas boiler that generates heat and electricity

The domestic heating experts

Since the founding of the original Baxi company over 150 years ago, Baxi has grown to become one of Europe's largest and most innovative manufacturers and distributors of heating systems.

We are committed to the development of innovative greener technology, reducing the use of fossil fuels and saving our customers money. The Baxi range includes award-winning high efficiency boilers and low carbon technologies such as solar, ground and air source heat pumps and biomass boilers.

Now see how the Baxi Ecogen could power your future.

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ECO GEMS

- Baxi Ecogen converts heat into cheap electricity
- Saves money and reduces CO₂ emissions



baxi group
be 1st with mCHP



The domestic gas boiler that generates electricity

Energy requirements are rapidly growing.

Think about your own home and how many lights and appliances need power. There are generally at least two or three in every room. Multiply that by every house in the UK and it's easy to see why protecting our energy resources is so important.

That's why at Baxi we have developed a new Dual Energy System. The Baxi Ecogen not only provides highly efficient central heating and hot water, it also generates electricity. Using this electricity to power your household appliances means that you need to buy less electricity from your electricity supplier, so you can look forward to lower electricity bills and a smaller carbon footprint.



Baxi Ecogen™ powers your home whilst heating it

The Baxi Ecogen is a micro-CHP boiler. CHP stands for 'combined heat and power'. This means it is a Dual Energy System, so at the same time as providing efficient **gas** central heating and hot water like any other boiler, it also produces up to 1 kW of **electricity** per hour.

It pays to have a Baxi Ecogen Dual Energy System fitted. By generating your electricity at the same time as providing heat and hot water for your home, you can expect to save up to £600 on your annual fuel bill.†

What's more, any electricity generated that you don't use, you can sell back to your electricity supplier for an agreed tax-free and inflation linked price. Electricity suppliers will pay a Feed-in Tariff (FiT) to householders for every kilowatt hour (kWh) of electricity generated and for every kWh of electricity exported back to the electricity grid.

- Generation tariff - the electricity supplier will make a fixed payment of 10p to the householder for every kWh of electricity they generate from the Baxi Ecogen.
- Export tariff - the electricity supplier will pay a fixed amount of 3p for every kWh of electricity exported from the Baxi Ecogen back to the electricity grid.

The cost of an installed Baxi Ecogen will vary depending on the size and type of your property. You can expect to pay more for a Baxi Ecogen than a SEDBUK Band A boiler, but you can get this money back through savings on your fuel bills.

ECO GEMS

- Save up to £600 on your annual fuel bill †
- Generate up to 1 kW of electricity per hour

† Based on official PAS67 and APM results, April 2010 (compared to a SEDBUK Band G rated boiler).

* SEDBUK = Seasonal Efficiency of Domestic Boilers in the UK (Band G is the highest efficiency rating and Band A is the lowest).



The new boiler that uses proven technology

Whilst it's true that the Baxi Ecogen is the first widely available wall-hung domestic micro-CHP boiler in the UK, the actual thinking behind it is very much tried and tested.

Combined heat and power technologies have long been used to reduce energy costs and carbon emissions in commercial buildings, from hospitals to hotels. Other European countries are already benefiting from the large-scale use of CHP technology in the home. In Denmark for instance, CHP incredibly accounts for 55% of all electricity generation.*

Heat and hot water are produced by the same technology that has been proven on Baxi's award-winning high efficiency boilers. The electricity is generated by a Stirling external combustion engine, which was invented by Robert Stirling, a Scottish clergyman, in the nineteenth century.



* Source: Danish energy authority
www.ambottawa.um.dk/NR/rdonlyres/...BEA9.../combinedheat.pdf

Cut your bills not your power

The Baxi Ecogen boiler produces up to 1kW of electricity per hour that can be used throughout your home. But just how powerful is 1kW?

When the Baxi Ecogen is generating 1kW of electricity, it can power your home - please see the example on the right.

Maximum cost savings can be achieved by using the electricity from the Baxi Ecogen as you generate it. For example, you could do your washing or ironing in the evening when your heating is on. Baxi Ecogen provides a cost effective alternative to using Economy 7 in the home.

You may be surprised to learn that electricity generated from a Baxi Ecogen offers greater energy efficiency than having a SEDBUK* Band A boiler and using electricity from an electricity supplier.

What can 1kW power?



Television =
0.1kW



Computer =
0.1kW



Ten 20W light bulbs =
0.2kW



Washing machine =
0.6kW

= 1kW

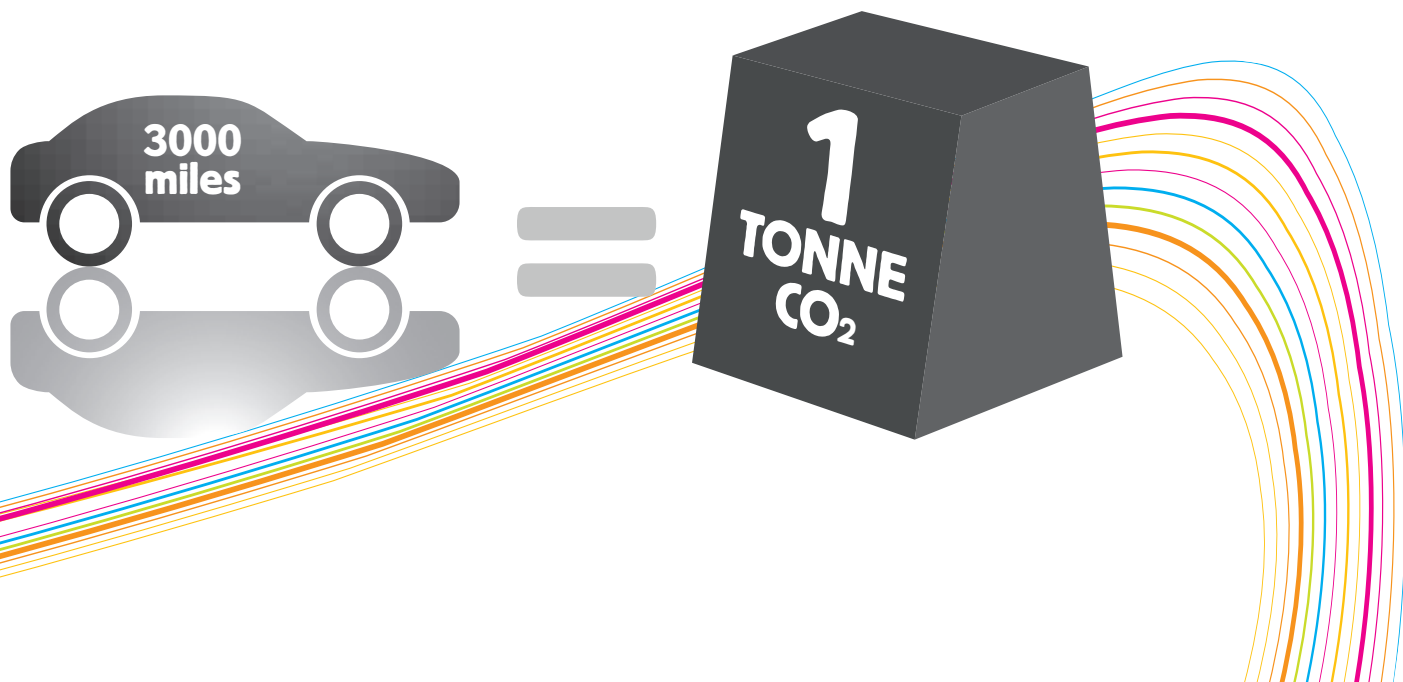


Reduce your Carbon Footprint

You could reduce your home's carbon footprint by up to 40%[†] with a Baxi Ecogen.

Baxi Ecogen produces 0.8 tonne less CO₂ a year than the combination of a SEDBUK* Band A rated boiler for heat, and power from an electricity supplier. That's the same amount of CO₂ produced by an average car on a 3,000 mile journey. That is the same as driving around the edge of England.

If compared to the combination of a SEDBUK* Band G rated boiler for heat, and power from an electricity supplier, the Baxi Ecogen produces 3.3 tonnes less CO₂ a year. That's equivalent to a 9,000 mile car journey (from Lands End to John O'Groats 11 times).



[†] Based on official PAS67 and APM results and SAP, April 2010. (compared to a SEDBUK Band G rated boiler)

* SEDBUK = Seasonal Efficiency of Domestic Boilers in the UK (Band A is the highest efficiency rating and Band G is the lowest).

Baxi provides a range of easy to use controls allowing you to set and control heating and hot water temperatures.

Baxi Ecogen controls are more intelligent than standard heating controls, designed to reduce your fuel bills and carbon emissions even more.

To benefit from the highest potential cost and carbon savings, you can choose from four Baxi Ecogen controls options.

Programmable room thermostat

- Energy meter displaying electricity generated
- 7 day programmable central heating + hot water
- Hot water boost
- Central heating advance
- Easy menu for any daily adjustments
- Large backlit display
- Automatic summer/winter time adjustments
- Service due display

Control options	Product	Efficiency
 <p>Option 1</p>	Programmable room thermostat	✓
 <p>Option 2</p>	Programmable room thermostat and outdoor sensor for weather compensation	✓✓
 <p>Option 3</p>	Programmable room thermostat and cylinder sensor* for hot water control	✓✓
 <p>Option 4</p>	Programmable room thermostat, outdoor sensor for weather compensation and cylinder sensor* for hot water control	✓✓✓

ECO GEMS

- Easy to use controls
- Intelligent system optimises performance



Baxi Ecogen fits your home and your lifestyle

The Baxi Ecogen is not only advanced in its performance, but also in its looks. Elegantly designed, it will complement the style of your home, while, of course, adding value to it through its excellent energy efficiency.

It can be sited almost anywhere in your home, from the kitchen to the utility, or garage. (The Baxi Ecogen is 920mm high, 426mm wide and 425mm deep).

Professional support

The Baxi Ecogen should be installed by an installer who is certified under the Microgeneration Certification Scheme (MCS). MCS Certification provides you with the reassurance that the person carrying out the installation has received appropriate training and is professionally qualified. Baxi works closely with key partners, including British Gas, who are MCS certified installers.



BAXI Frequently Asked Questions

Q Why should I invest in a Baxi Ecogen instead of a conventional boiler?

A A conventional boiler will only provide gas central heating and hot water. The Baxi Ecogen will provide all this plus cheap electricity to power your home. You could save up to £600 on your annual fuel bill and cut your carbon emissions by up to 40%.†

Q Who can install and service Baxi Ecogen?

A Baxi is working with key partners, including British Gas, who are MCS certified and fully trained to install and service the Baxi Ecogen.

Q What can I use my electricity for?

A The Baxi Ecogen produces up to 1kW of cheap electricity per hour to power most of your home's energy needs, from your lights and fridge to your phone and TV.

Q Where can the Baxi Ecogen be fitted in my home?

A The Baxi Ecogen is wall-hung and can be fitted in a range of locations including your kitchen, utility or garage.

Q What is FiT?

A Electricity suppliers will pay what is called a Feed-in Tariff (FiT) to householders for every kWh of electricity generated and exported back to the electricity grid. And best of all, it is tax-free and inflation linked.

Q How does the Baxi Ecogen connect to my electricity supply?

A The Baxi Ecogen uses one electricity connection. Electricity is supplied through this wire and is either used in the home or exported back to the electricity grid.

Q How is the electricity used?

A Any electricity generated will be used in the home as needed. Surplus electricity is then automatically exported back to the electricity grid.

† Based on official pA567, OApM results and SAP, April 2010. (compared to a SEDBUK Band G rated boiler)

* SEDBUK = Seasonal Efficiency of Domestic Boilers in the UK (Band A is the highest efficiency rating and Band G is the lowest).



At Baxi we pride ourselves on being the home heating experts.

We are committed to the development of innovative greener technology, reducing the use of fossil fuels and saving our customers money. The range of award-winning, high efficiency, low carbon and renewable technologies that we provide is truly unrivalled by any other single supplier in the market.



- Baxi high efficiency boilers - including the UK's only high efficiency back boiler.



- Heatrae Sadia Megaflo™ cylinders - the brand leader in invented domestic water heating.



- Baxi Ambiflo™ - air source heat pumps take the latent heat from outside air, using this energy to provide heating within the home.



- Baxi Geoflo™ - ground source heat pumps transfer stored thermal energy from the earth into water heating systems.



- Baxi Biomass - provides carbon neutral heating and hot water, by burning wood pellets or logs.



- Baxi Solarflo™ – solar thermal water heating devices make use of free energy from the most abundant source we have - the sun.

visit www.baxiecogen.co.uk

Contact us

Speak to the home heating experts to find out more about the benefits of the Baxi Ecogen. Call

0844 871 1525

or visit www.baxiecogen.co.uk

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