
tepeo
tepeo
Heat your home, not the planet

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An introduction to tepeo

tepeo was founded in 2018 to give customers a cleaner, smarter, and more cost-effective heating solution that would help the switch away from their existing polluting boiler.

After several years of tireless research and innovation we launched the ZEB heat battery boiler - an efficient heat battery solution that uses affordable off-peak electricity to supply heating to the whole home.

The ZEB was launched in 2021 and with the rapid growth of our network of tepeoPRO installers, we're now able to supply this British made technology to millions more customers across the UK, increasing the options available for low-carbon heating solutions.

tepeo is here to help homeowners upgrade their existing boilers with a cleaner alternative so they can **heat their home, not the planet**.

MADE IN BRITAIN

10 YEAR GUARANTEE

Certified B Corporation



Discover the ZEB

Cleaner, Smarter Heating

The ZEB heat battery boiler is a cleaner, smarter alternative to a traditional gas or oil boiler. Powered by electricity, it works like a battery to store energy as heat and, thanks to our patented heat-management technology, cleverly releases it to radiators, underfloor heating and hot water stores whenever the thermostat calls for it. It replicates the functionality of a traditional boiler but without any emissions at the point of use.

Cost-Effective & Convenient

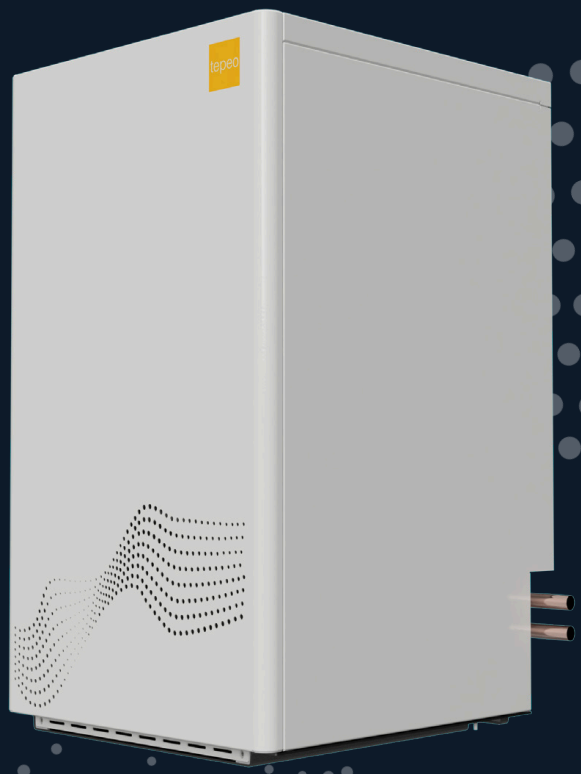
Unlike traditional electric boilers, the ZEB is internet-connected and uses intelligent controls to store the right amount of heat each day, tailored to usage, weather, and your electricity tariff. By charging mainly during off-peak periods, it keeps energy bills low while ensuring heating is always ready when needed. The tepeo App puts customers in control from anywhere, offering clear insights into energy use and carbon savings.

Easy to Install, Use & Maintain

Designed as a straightforward heat-only boiler replacement, the ZEB works with the radiators, underfloor heating, and hot water cylinders already in place. Typically, a ZEB can be installed in just 1–2 days with minimal disruption to the home. Where the ZEB replaces a combi-boiler, new compact heat batteries for hot water can be installed alongside the ZEB, saving space often lost when installing a cylinder.

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How the ZEB works

Scan to watch the ZEB in action



- The ZEB is powered by electricity from the grid
- An innovative core stores 40kWh of heat that can be used on demand
- 15 kW peak heat output with 9 kW sustained charge/discharge rates
- Works with existing heating controls
- Delivers heat to radiators and underfloor systems with flow temperatures from 35–80°C
- Provides heat to a hot water tank / thermal store

The ideal home for a ZEB

Scan to find out if your home is suitable

Est. annual gas consumption **12,000 kWh** (roughly 1,100L of oil) or less

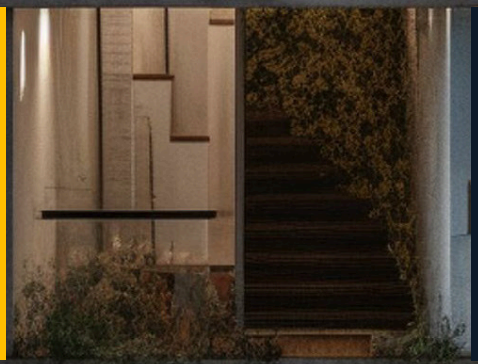


Whole home heat loss of **5 kW** or less

Winter daily heat consumption of **60 kWh** or less

An existing ‘wet’ central heating system with radiators or underfloor heating

Space for the ZEB indoors on an accessible, solid and level surface*



A hot water tank / thermal store, or space to fit one

*Installation within the heated envelope of the home rates a ZEB® at 100% efficient at converting fuel into heat; installation in garages or unheated spaces is not optimal and may result in increased standing losses and reduced capacity.

ZEB specifications

ZEB-40R			
Electrical	Rated input power (@230V)	9	kW
	Rated current (@230V)	41.5	A
	Max current draw (inc FCU)	46.3	A
	Nominal voltage (48 - 52Hz)	230	VA
	Onboard power & frequency monitoring	Class B	C
Heating	Thermal storage capacity (usable)	40	kWh
	Time to full charge (from empty)	4.5	hours
	Heat output (at >50% Charge)	15	kW
	Modulation range	0-100%	%
	Output temperature range	35-80	°C
	Recommended ΔT across boiler	10 - 20	°C
	Maximum operating pressure	6	bar
	Typical flow rate	10	l/min
	Minimum flow rate	3.5	l/min
	Standing heat loss (at 50% charge)	280	W
Physical	Dimensions (W x D x H)	598 x 660 x 980*	mm
	Weight	375	kg
	Max sound power level	58	dB
Environment	Ambient temperature	5 - 40	°C
	Storage temperature	-20 - 55	°C
	Operating humidity	10 - 85	%
	Storage humidity	5 - 90	%
Smart features	Tariff optimisation	Yes	-
	Charge optimisation and learning	Yes	-
	Frequency monitoring & response	Yes	-

*Excludes necessary clearances.

Intelligent heating through Smart Charging

Learning

First, the ZEB learns how much heat your home needs and uses local weather forecasts to make a prediction for the day ahead

Adapting

Next, the ZEB works out how much to charge and when to do it based on your tariff pricing, the grid carbon intensity and predicted heat demand.

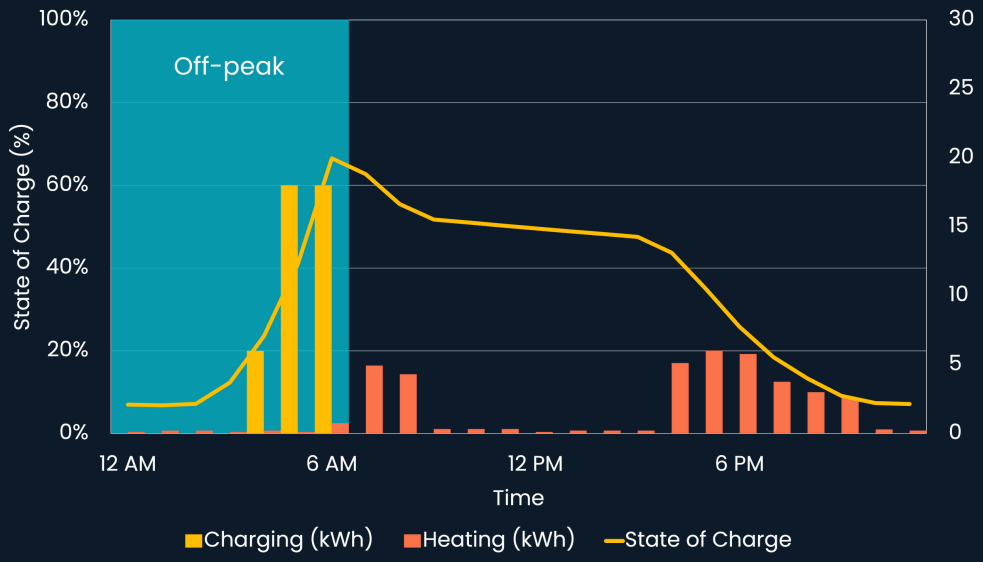
Adjusting

As the day unfolds, the ZEB constantly checks its level of charge and re-calculates to make adjustments throughout the day if needed.

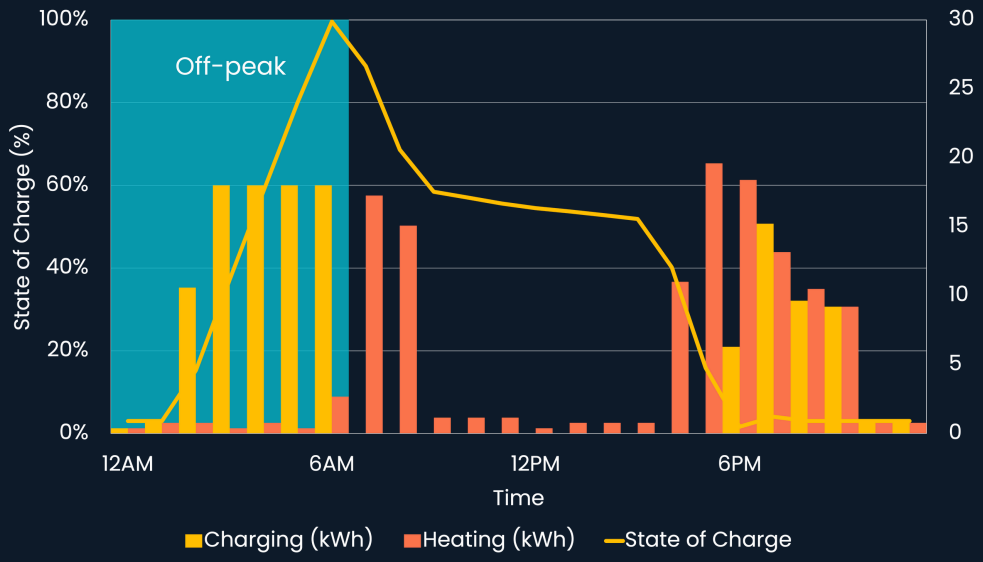
Control

You are always in control - the tepeo app lets you adjust or set how the ZEB should charge and you can always boost the ZEB manually.

Typical spring or autumn day (example)



Coldest day of the year (example)



How does the ZEB compare to other heating solutions?

The ZEB is cost-comparable to other low carbon heating solutions. Switching from a gas boiler to the ZEB would lead to a carbon saving of 2 tonnes CO_2 per year.

	Traditional gas boiler	Electrical boiler	Heat pump	ZEB®
Eco credentials	Burning fossil fuels, creates pollutants	High carbon electricity, No direct emissions	Low carbon electricity, No direct emissions	Low carbon electricity, No direct emissions
Ease of installation	Easy to install	Easy to install	Often complex, disruptive retrofit	Simple retrofit
Space	Like for like	Like for like	Large amount of outside space and space in home	Space in home
Flexibility	Heating on demand	Heating on demand	Limited flexibility, lack of heat storage	Highly flexible stored heat
Energy	Limited cost efficiency, no smart savings	High, using electricity on demand usually at peak prices	Long-term cost savings, no smart energy purchasing	Low cost using cheaper, cleaner off-peak electricity

Scan to check how much you could save in running costs by making the switch to a ZEB with our Cost & Carbon Calculator.

Maintenance and Aftercare

Scan to view the ZEB Care Plan or Health Check

Up to 10 years' guarantee for peace of mind

We believe in keeping things clear. The ZEB itself is backed by a 10 year guarantee, because it's built to last. As with all boilers, some parts are designed to be replaced over time, so are guaranteed for:

- 3 years – heating elements
- 5 years – fan motor and heat exchanger

Everything is designed to be easy to maintain and quick to replace, so you can enjoy low-carbon heating with confidence.

To maintain the guarantee and keep ZEB working at it best some after care is required. To help with this, we have two options for you:

Annual ZEB Health Check involves a tepeo trusted engineer checking the water quality in your heating system, clearing filters, visually inspecting parts for wear and tear, including cleaning where necessary, checking for leaks, carrying out an electrical safety test and generally ensuring the ZEB is running smoothly.

The tepeo Care Plan includes the annual ZEB Health Check, plus remote monitoring, alerts, and additional member benefits, including discounts on fixed-price repairs to other essential parts of your heating system.

Customer Story

"I chose the ZEB because I wanted to feel that I was doing my bit – making a more sustainable choice and doing something positive for the planet."

Jane is one of many tepeo customers who made the switch to a ZEB after discovering it was the best low-carbon solution for her needs. Living in a listed stone barn built in 1875, her options for a fossil-free heating system were limited - making the ZEB the perfect choice.

"When I bought my house just over two years ago I knew that the oil boiler would need replacing relatively soon. In addition, my oil tank was awkward to refill and service due to limited access. Meanwhile, I was increasingly uneasy at continuing to use fossil fuel for heating, as had also been the case at my previous house, and I was determined to find a greener solution."

"Overall, it's performing really well and keeping my house noticeably warm. It sits in my kitchen and gives off a low level background heat not unlike that of an Aga – which keeps my dog happy!"



"Excellent"

Scan to read the full case study and more

Contact Us

We're here to help you with any queries you may have.

Whether you're ready to buy a ZEB, exploring your options, or just want to understand how it works, our team is here to support you every step of the way.

Get in touch

020 7072 5462

sales@tepeo.com

Find an Installer
Connect with a trusted tepeoPRO installer in your area who can provide advice, a quote, and handle your installation.

Follow Us on Socials (@tepeoheat)
Stay up to date with the latest news, product updates, and customer stories.

Discover More
Visit tepeo.com to learn more about the ZEB, explore resources, and see how we're making low-carbon heating simple.

Scan here for the latest product documents & FAQs

