

EUROPEAN GREEN DIGITAL COALITION

Supported by the European Commission and Parliament at the EU Council's request, the EGDC unites companies to use digital solutions for reducing emissions across key sectors.



Funded by
the European Union



heata reimagines the data centre as a network of distributed cloud-computing servers (heata units) inside homes which are mounted to domestic hot water cylinders and connected to heata's network forming a 'virtual data centre'. heata uses this virtual data centre to provide cloud services, with the resulting heat warming the water in the cylinder.

This case study is an ex-post assessment of heata units installed in homes in 2025 using gas for hot water heating.

Organisational contribution: heata is the innovator, developer, and deployer of the solution. This aligns with A-level classification as defined by ITU-T L.1480.

Quantified impacts:

1 year <i>Assessment period</i>	-70 to -148 tCO _{2e} /year <i>Net carbon impact range accounting for uncertainty</i>	-101 tCO _{2e} /kg <i>Net carbon impact per year</i>
------------------------------------	--	---

Other identified impacts:

Economic: Cost savings - Reduction in home gas consumption leads to cost savings for the homeowner which can help address fuel poverty. If all cost savings were spent on typical UK carbon-intensive activities, the impact of this rebound effect would be a 5% reduction in the net carbon impact per year.

[Website](#)

[Contact heata](#)

Relevant links: [Contact the EGDC](#) | [Methodology](#) | [Calculator](#)

Disclaimer: While reasonable steps have been taken to ensure that the information contained within the case studies is correct, the EGDC and heata give no warranty and make no representation as to its accuracy. EGDC and heata accept no liability for any errors or omissions that may be present in the case studies methodology, or related information. Users and readers are advised to exercise their judgment and seek further clarification if needed, as the information provided may evolve over time and depend on external factors beyond EGDC's and heata's control.