

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

Assessment period

-55 to -120 tCO₂e/year

Net carbon impact range
accounting for uncertainty

-81 tCO₂e/year

Net carbon impact per year

Other identified impact:

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](#)

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