

Study: UK residential sector must adopt heat pumps to achieve 2050 net-zero target

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A new study by a University of Glasgow-led research center has found

that the U.K. housing sector is lagging over 30% behind neighboring countries when it comes to the adoption of heat pumps, despite their enormous potential to reduce greenhouse gas emissions and provide cost savings for households.

The study, carried out by the UK Collaborative Center for Housing Evidence (CaCHE), outlined that the U.K.'s residential sector accounts for 16% of total [greenhouse gas emissions](#), with space and water heating being the predominant sources of energy consumption and emissions.

However, the adoption of [heat pumps](#), a key renewable source for space and water heating, is hindered by several barriers in the U.K. compared to countries such as Denmark and Sweden, including higher capital costs compared to conventional heating systems, mistargeted deployment, and competing economic interests among stakeholders.

With the U.K. committed to achieving a net-zero target by 2050, the residential sector's mitigation is crucial in reducing greenhouse gas emissions.

Dr. Sohail Ahmad, lead author of the study, commented, "The findings have important policy implications, especially in terms of enhancing [financial incentives](#), increasing demonstrator projects, and targeting the right segments of households who are potential innovators and early adopters."

Professor Ken Gibb, Director of the UK Collaborative Center for Housing Evidence, added, "Our new study reinforces the fact that the UK residential sector must scale up the take-up of air source heat pumps if we are to achieve long term net-zero targets."

Identifying that appropriate knowledge and awareness about heat pumps are crucial for their adoption, the study suggests attracting consumers

through financial incentives and reducing the imbalance in levies on electricity and gas bills to drive demand.

The study calls for greater coherence in policies and regulations to incentivize manufacturers and installers, address stakeholders' concerns, and provide end-users with a positive experience of heat pumps.

More information: Motivations and barriers associated with adopting domestic heat pumps in the UK: [housingevidence.ac.uk/publicat ... eat-pumps-in-the-uk/](https://housingevidence.ac.uk/publications/eat-pumps-in-the-uk/)

Provided by University of Glasgow

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