



#CLEANSPIRATION

SHOWCASING CLEAN ENERGY LEADERSHIP AND INNOVATION
IN GREATER MANCHESTER

The University of Salford's Energy House

What is it?

A terraced house, typical of the type built in their thousands in Greater Manchester and around the UK in the early 1900s. The difference with the Energy House is that it's been installed - right down to the washing machine and TV - inside an environmentally controllable chamber at the University of Salford.

What are its clean credentials?

While switching to clean energy is important, a more immediate way to fight climate change - and cut our household bills - is to reduce our energy use. In order to do that, we need to better understand how different technologies, from insulation materials to smart meters, can make homes more efficient, and how the way we use those technologies day-to-day makes them more or less effective.

Testing these things in a conventional house is difficult because environmental conditions (and by that, we mean the weather) are constantly changing, making it difficult to compare like-for-like. The chamber containing the energy house can simulate all kinds of weather conditions on a consistent way, providing the academics and businesses that use it with much more reliable insight on how to reduce energy consumption.

About this series

The GM Cleanspiration series is produced for the GMCA by the Greater Manchester Big Clean Switch campaign, which helps residents save money by switching to clean electricity. To find out more, or to compare clean energy prices for your home, visit www.bigcleanswitch.org/gm.

What makes it special?

One of a kind

The Energy House is the only brick-built, full-scale building in a controlled environment anywhere in the world. With this type of home accounting for about a fifth of the UK's housing stock, it has an important role to play in the UK's fight against climate change.

Open to all

The Energy House isn't just for academics - it's also used by businesses to test new products or improve existing ones.

One and a bit houses

In order to test heat loss in a typical terraced house, the team actually built a third of a next-door property attached to the main house. And in a nod to the building's energy-saving goals, they've named the 'street' 'Joule Terrace'.

How can I find out more?

Visit: www.salford.ac.uk/research/best/research-groups/applied-buildings-and-energy/

Email: w.c.swan@salford.ac.uk



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