

SuSy Research Ltd is our independent research and social enterprise.

Engineering and **mathematical** models, helping companies to create disruptive products.

Cooperation + Interdisciplinary +
Simplicity + Creativity

susyresearch.org

Sustainable Systems Research

“SuSy Checker” initiative

SuSy Checker is our initiative to
develop the **building fitness app**.

Vision - Every single house in the
world self-sufficient in energy and
water.

How - Empowering individuals with the best tools, technologies and knowledge to achieve the vision.

susychecker.com

Energy, water and the environment are so important assets that they cannot be beyond the control of individuals.

Individuals shape the world:

_ it is a bottom-up process, not top-down_

our beliefs

The Building Impact

**Carbon-dioxide emissions:
buildings are responsible for 23%
(world average), but in Europe is
36%, and UK accounts for 43%.**

**Buildings are responsible for
nearly 40% of total energy**

consumption.

~80% of the UK building stock that will exist in 2025 has already been built (very low sustainability scores)

COVID 19: houses had an increase of 16% in energy consumption (it will be worse the months ahead...)

'Greener'

**technologies are
ready to use (and
new breakthroughs
are coming)**

SuSy background:

**technologies for sustainability and
energy**

savings & mission critical buildings

House

Potential

Savings

54%

35%

SuSy Checker genesis

herokuapp.com/

Prototype

Geolocation and
“Draw-your-
Rooftop” method

Sustainability

Score Algorithm

Solar radiation
online dataset

Energy
consumption
algorithm

Water (rainfall)
online dataset

Dashboard
interaction and
forms

<https://susychecker.com/>

Proof-of-Concept

**Thank
You!**

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