

UK Housing Toolkit

client: Energy Saving Trust (EST)

client brief: To develop a software toolkit allowing the assessment of policies for improving the energy efficiency of the UK housing.

our solution: Toolkit design and development.

description: The EST is tasked by the UK government to lead CO₂ reduction policy and promote efficient and sustainable use of energy. To develop realistic and useful policies, it is important for the EST to understand the effects of potential schemes in terms of their cost and effectiveness at reducing CO₂ emissions.

Element Energy was commissioned by the EST to develop a software toolkit which can be used to assess the effect of different policies acting on different types of housing. The tool contains a full database of UK house types, and allows the user to configure different energy efficiency measures and policy types. The flexibility of the tool allows the projections to be made under a number of possible grid electricity CO₂ intensity scenarios, technology cost scenarios, and with changes to the new build stock and existing demolition rates.

The results from the toolkit allow the CO₂ reductions from energy efficiency measures to be calculated up to 2050 providing a strong evidence base for long term policy formation.