ZERO CARBON RUGELEY
Smart Local Energy System
Design Demonstrator

ZERO CARBON RUGELEY
WP6-D2: PROSUMER MODEL SCOPE

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Element	Description
Title	ZERO CARBON RUGELEY WP6-D2: PROSUMER MODEL SCOPE
Creator	Christoph Mazur — Project Lead and Energy Systems Maria Briola – Energy Systems Designer
Subject	Key words: Smart Energy System, model structure, model scope, model functionality, model requirements, energy vector, energy technologies, innovations, house retrofit, generation assets, mobility solutions, energy costs, substations, carbon emissions, Prosumer tool, optimisation tool, nodes, lines
Description	Zero Carbon Rugeley project aims to design a Smart Local Energy System (SLES), which consists of different individual energy solutions that are integrated with each other and seek to decrease carbon emissions, reduce energy bills by at least 25% and provide wider benefits to the local area by 2030. In order to design an optimised SLES in Rugeley area, it is important to make an introduction on the optimisation tool (Prosumer) that will be used for the design and take into account its functionality, structure, limitations, as well as input and output requirements. In addition, the Prosumer model structure for the Rugeley SLES case study is presented along with the way to incorporate mobility, housing retrofit and energy solutions into the model. Finally, input data needed from the different consortium WPs are identified.
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