ZERO CARBON RUGELEY
WP6-D3: PROSUMER MODEL FOR RUGELEY SLES

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Element	Description
Title	ZERO CARBON RUGELEY WP6-D3: PROSUMER MODEL FOR RUGELEY SLES
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Subject	Keywords – Distribution Networks (DNs), Energy demand, Prosumer tool, Basecase models, Heating technologies, energy converters, nodes, lines, CAPEX, OPEX, electricity market, gas market, gas boiler, electric boiler, thermal store
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 achieve that, WP6 aims to analyse the current energy system in Rugeley, which covers new and existing buildings, mobility and energy assets and create energy models of the existing energy system (infrastructure and energy users). WP6-D3 includes the 6 basecase sub-models of Rugeley project area, built in PROSUMER, and a concept design map, which represents the SLES models. Each sub-model represents one or two different feeders in Rugeley. Additionally, an Energy Solutions and Technology Inventory tracker was created in order to collect cost and technical information on the different energy technologies that could be tested in ZCR SLES as well as gather all the assumptions used for the basecase sub-models.
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