



Coventry RESO
– Technical Design
JULY 2021



RESO Technical Design

- The RESO Technical Design focuses on producing energy system scenarios that are unique to Coventry.
- They're based on assumptions around the infrastructure and assets which influence the smart local energy system.
- The scenarios provide possible ways the systems will evolve in Coventry until 2032.



The objectives

- To achieve an integrated preliminary design featuring different technological options which will work with the market and governance inputs from other project partners.
- To quantify Coventry's annual energy mix and associated carbon emissions based on these options.
- To evaluate the Technical Design model (including its underlying data, assumptions and calculations) and assess its suitability for the city's smart local energy system.



Key findings

- Coventry has a diverse range of buildings, industries and communities which pose challenges when evaluating energy systems at a city scale.
- We've segmented Coventry into 25 different areas so we can achieve both a local and a city view.
- This allows us to develop technological options in the models which are targeted to each area.



The scenarios

- The RESO Coventry Future Energy Scenarios provide a method of contrasting options for differing technology types, adoption, growth rates and demand patterns.
- They enable us to evaluate how the mix of technologies and different assumptions of underlying consumer behaviour may impact energy requirements.
- Ongoing work on the model will incorporate internal feedback, based on technical validation of the model and incorporation of additional technology types.



Next steps

- We're currently refining the three designs, improving the level of granularity in the technology types and the underpinning assumptions and calculations.
- Work has also started to develop the costs and benefits associated with each technology choice in each design.
- For more information on the RESO project please contact WMRESO.coventry.gov.uk

