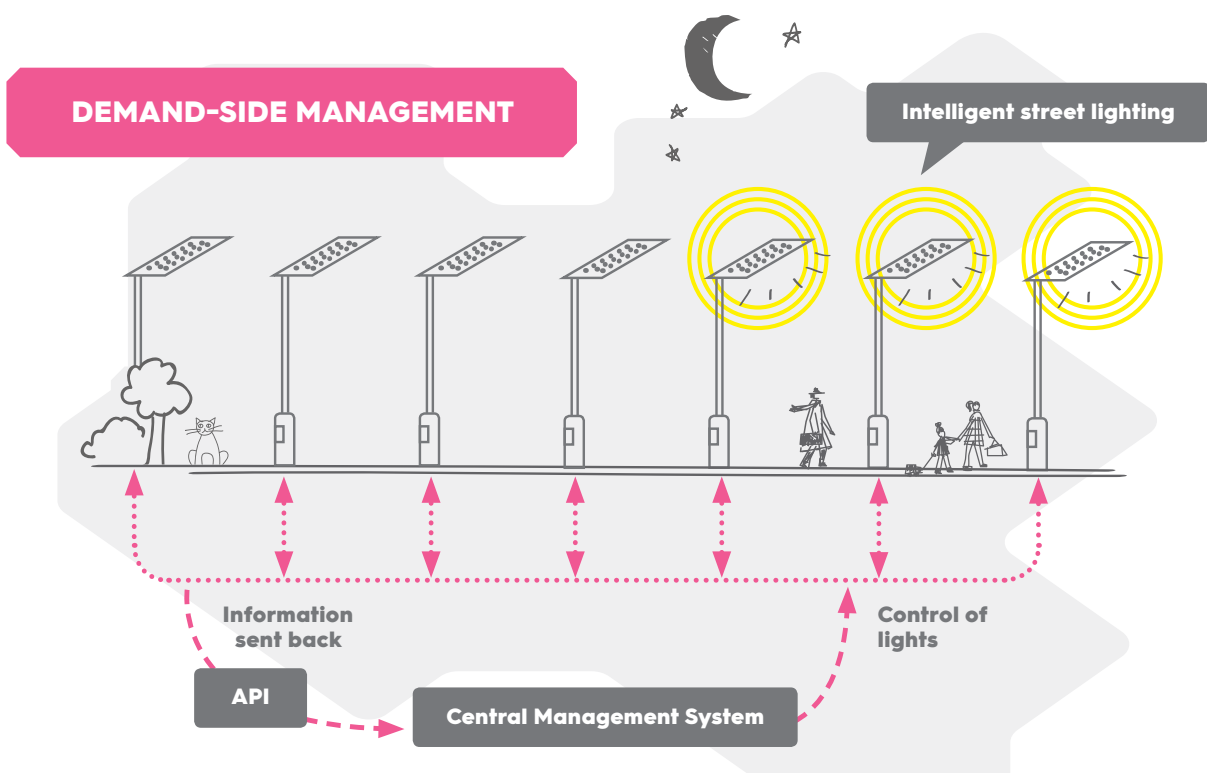


Implementation of demand-side management technology in street lighting

Glasgow

Energy management and ICT



The objective of this solution is to seize the opportunity to add value to a separately-funded programme of LED (light-emitting diode) street light installations in the city of Glasgow by utilising the demand response capabilities of LED street lighting that is being installed throughout the city as part of a separately funded ERDF project.

Main partners involved:

SIEMENS



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731198. The sole responsibility for the content of this document lies with the RUGGEDISED project and does not necessarily reflect the opinion of the European Union that is not responsible for any use that may be made of the information it contains.

FACTSHEET G8

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How does it work?

Requests will be made to the Street Lighting Central Management System (CMS), via an API, to tactically reduce lighting levels across the city. Whilst the local impact on the network will not be great, the cumulative impact of circa 70,000 lights turning off could be considerable (70,000 in the future; note there will be circa 300 during the trial).

Assets connected to the CMS that are able to be controlled will also be requested to participate in demand-side management.

Estimated impacts

The solution should:

- Demonstrate the link between demand-side controller and lighting CMS.
- Demonstrate demand response of lighting assets.
- Demonstrate demand response of connected assets.

Replication potential

It is the ambition of Glasgow City Council to ensure that street lights are controllable and can be deployed in a demand side management application.

The city centre has already secured planned investment of approximately GBP 3M (EUR 4M) from the European Regional Development Fund - the programme for which has commenced with 10,000 lights due to be replaced in all major arterial routes.

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