

DEMAND SIDE RESPONSE FOR SMES



Mitchell Curtis
Dr Jacopo Torriti
Dr Stefan Smith
Yoav Zingher

RESEARCH IMPACT

Working with KiWi Power, this project aims to analyse the energy profiles of small- and medium-sized enterprises (SMEs) to assess the potential of different Demand Side Response (DSR) solutions and improve uptake in this sector.



'This research will directly impact KiWi Power by improving the demand response prediction of new clients.'

Yoav Zingher
Kiwi Power CEO



BACKGROUND

DSR is a financial incentivisation scheme encouraging customers to reduce electricity use at peak times. SMEs have traditionally been excluded from the scheme due to prohibitive setup costs and a limited capability for energy reduction. However, as SMEs represent 30.2% of peak electricity usage in the UK this sector is an important and sizeable segment of the market. If these hurdles are overcome, usage of DSR in SMEs can help meet future energy targets.

OUR RESEARCH

This research will quantify medium sized enterprises' potential for DSR and identify suitable implementation approaches by understanding their energy demand through four objectives:

- 1 Understand load profiles and energy practices of medium sized enterprises.
- 2 Review DSR control and automation programmes appropriate for medium-sized enterprises;
- 3 Model the energy use and equipment of vertical industries in the medium-sized enterprises sector;
- 4 Identify DSR load reduction strategies of vertical industries in the medium-sized enterprises sector.

OUR IMPACT

KiWi Power will directly apply the outcomes of this research to improve the qualification of new medium-sized enterprises. It is anticipated that costs, and the uncertainty of enabling DSR in these companies, will be reduced and uptake will increase. Greater usage of DSR will increase the network capacity of renewable generation, reduce peak power plant requirements, and help secure future power supplies.

FOR MORE INFORMATION PLEASE CONTACT

Technologies for Sustainable Built
Environments Centre

tsbe@reading.ac.uk
Tel (0118) 378 8533

www.reading.ac.uk/tsbe

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