

Opportunities and experiences of using ICT to influence decision making and behaviour change

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Opower deploys energy efficiency at scale

Proven efficiency results

- Engaging over 70 M households on four continents in partnership with nearly 100 utilities
- Over 140 programmes deployed -1.5% to 3.0% average savings
- ~ 8 TWh in energy savings impact

How?

- Behavioral science software
- Data analytics
- Consumer marketing
- User-centric design



Engagement at Scale: Nearly 100 utilities in 9 countries trust Opower



- 40% of US household energy data under management totaling 100 billion reads
- 15 million residential households on Opower platform, and over 1 million SMBs
- Data Center located in Toronto, Ontario
- 600 employees in Washington DC, San Francisco, London, Tokyo and Singapore



Engagement starts with paper...





as how their cooling use compares

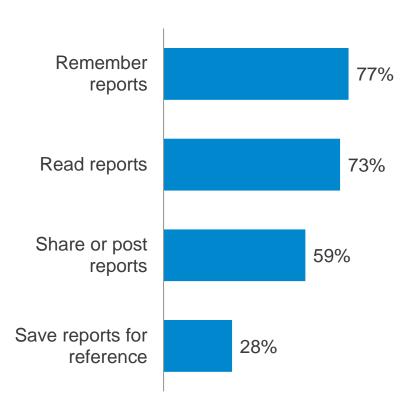


Do behavioural energy efficiency programmes deliver?

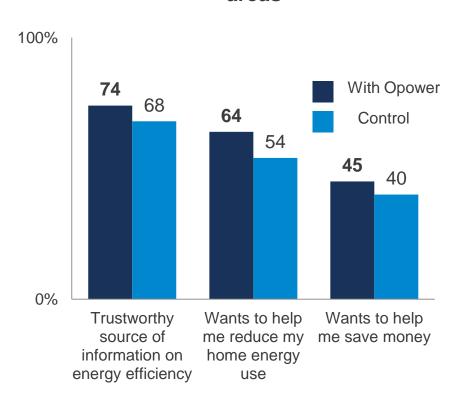


Paper reports have outstanding reach and impact

The vast majority of customers engage with Opower reports



Engagement translates into improved opinion of utility in key areas





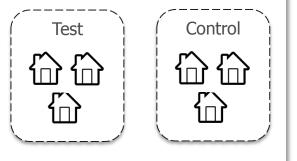
Rigorous measurement with experimental design

1. Identify eligible households

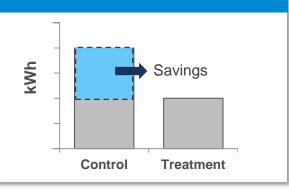


2. Match program size to desired impact

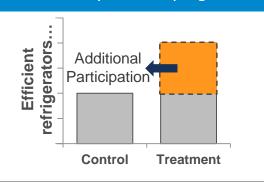
3. Establish statistically equivalent groups using randomization



4. Measure program savings



5. Identify participation in other individually-tracked programs

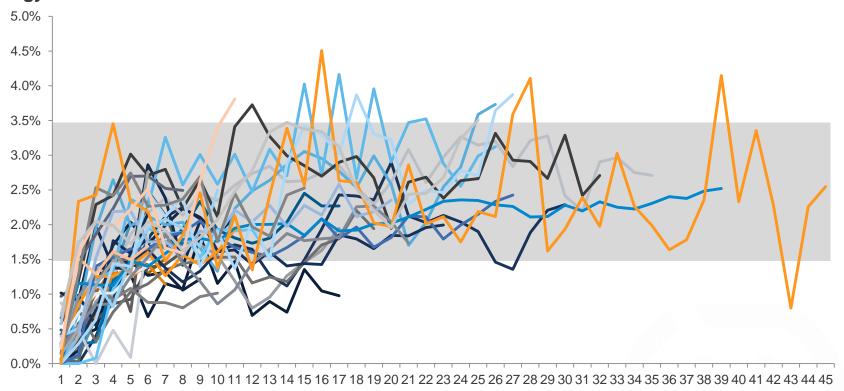


6. Attribute savings from other individually-tracked programs



Significant, persistent, sustained savings...

Energy saved



Months since program start









Massachusetts Institute of Technology

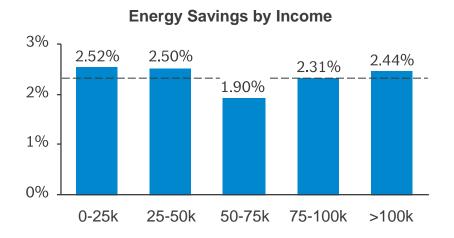


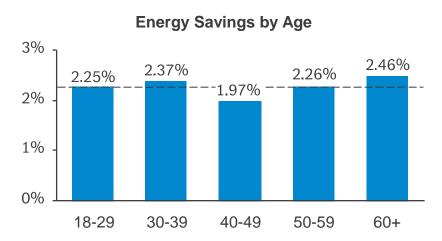


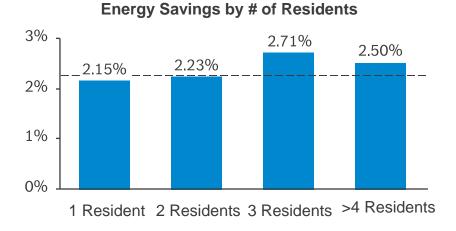


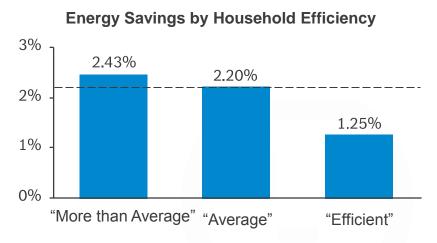


Impact Across All Segments







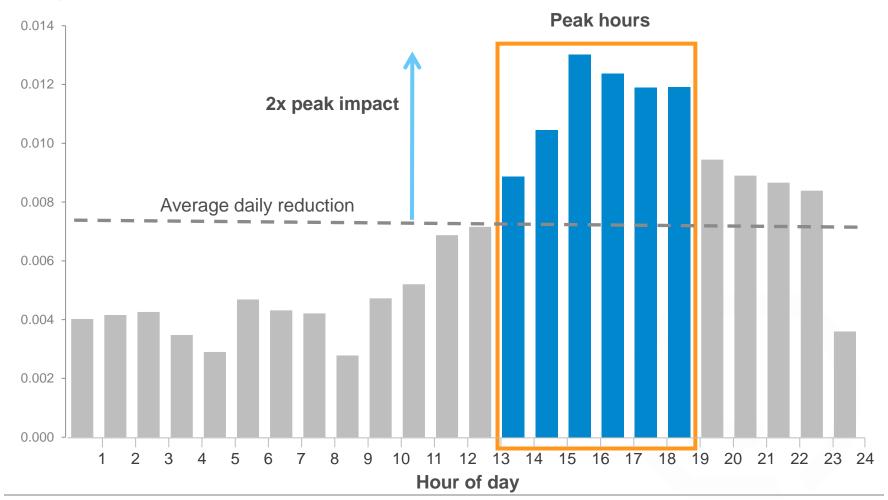


Impact Variance Very Low Across Demographic Groups and Energy Profiles



Greater savings occur during times of peak demand, even without price signals or in-home devices

Average hourly kW reduction per home





Denmark, Ireland, Italy & UK approve behaviour as a measure for utilities to meet regulatory EE requirements







Thank you

