

# Consumer Feedback through ICT Situation in Ireland

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**IE CA EED NCP** 

Solid IE Regulator Research on Value of Display Information

Recent Case Study (Electric Ireland)

Potential of Smart Meters

Value of Display Information

Plans for Smart Meter Rollout in IE



**Objective** - Customer Behavior Trial - ascertain potential for smart metering technology, when combined with time of use tariffs and different DSM stimuli, to effect measurable change in consumer behavior .....

Approach

Main Findings - Residential

Main Findings SME/Commercial

ToU tariffs and DSM stimuli are found to reduce overall electricity usage by 2.5% and peak usage by 8.8%

bill, energy usage statement and electricity monitor found to be more effective than other DSM stimuli in reducing peak usage with a peak shift of 11.3%

no evidence of a tipping point, .... with demand for peak usage estimated as being highly inelastic relative to price

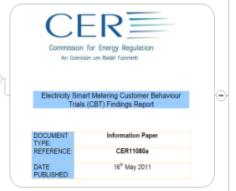
The electricity monitor was deemed to be effective as a support to those achieving peak reduction (91% rated it as an important support) and shifting to night rates (87% deemed it an important support).

the deployment of ToU tariffs and DSM stimuli are found to reduce overall electricity usage by 0.3% and peak usage by 2.2%, although neither result is found to be statistically significant;

Among participants who reduced either peak or overall usage, the electricity monitor was deemed to be effective with 93% of those reducing overall usage stating it was important and 85% of those reducing peak usage stating it was important;

In contrast, the web-site information was rated as important to overall usage by 24% of reducing businesses with access to the stimulus. This reflects the low level of usage of the system (at 15% stating they logged in).

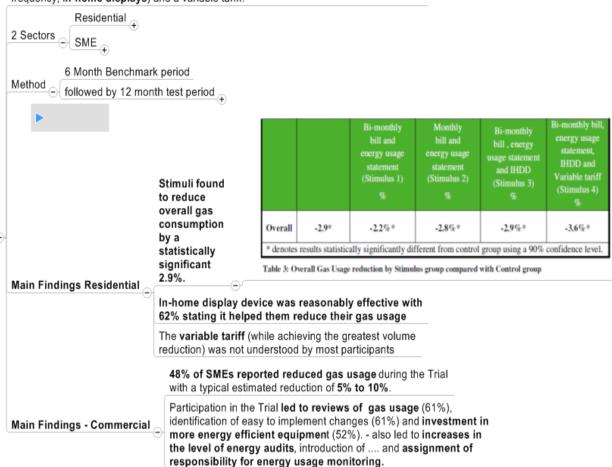
**Key Message** = in general, the **most significant savings** were **achieved with IHD** providing near real-time data in the home.





Electricity

**Objective** - look at measurable reduction in customer demand through the use of smart meters combined with information stimuli (i.e. detailed billing on a bi-monthly and monthly frequency, in-home displays) and a variable tariff.





Commission for Energy Regulatio

DOCUMENT

TYPE: REFERENCE

Smart Metering Information Paper Gas Customer Behaviour Trial Findings Report

Information Paper

CER11180a

11th October 2011

### Case Study (Courtesy of Dave Phelan of Electric Ireland)

 Smart Energy Controller (SEC) Project by **Electric Ireland** 

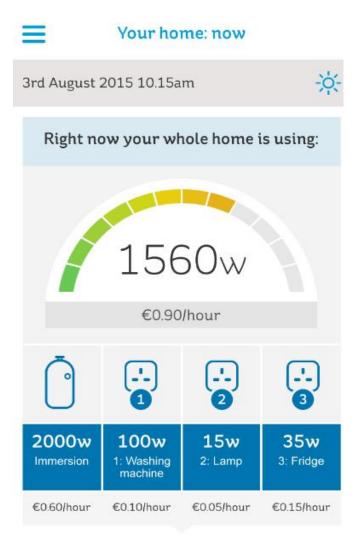


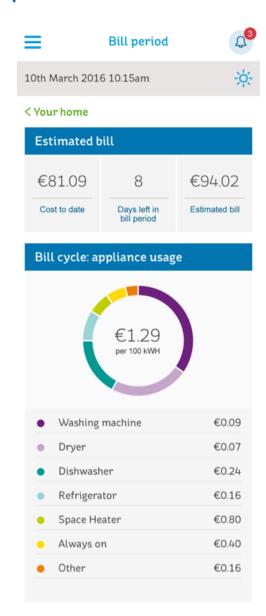
#### **Smart Energy Controller**

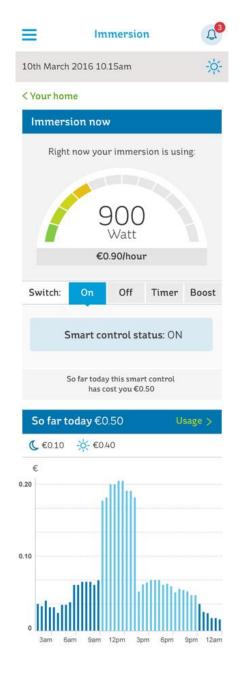
- Real time usage information and appliance control from a smart phone 3rd August 2015 10.15am Right now your whole home is using: 1560w **Gateway** Meter **Control and Monitor** 



#### Sample screenshots of the App

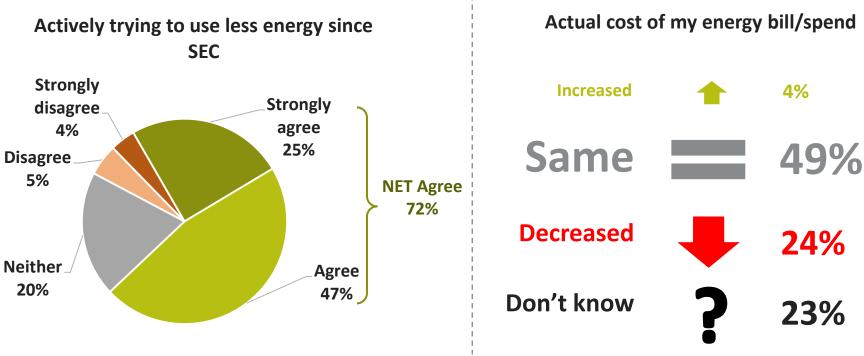






#### ACTIVE BEHAVIOUR CHANGE & PERCEIVED COST DIFFERENCE

### One in Four Strongly Agree They Are Using Less



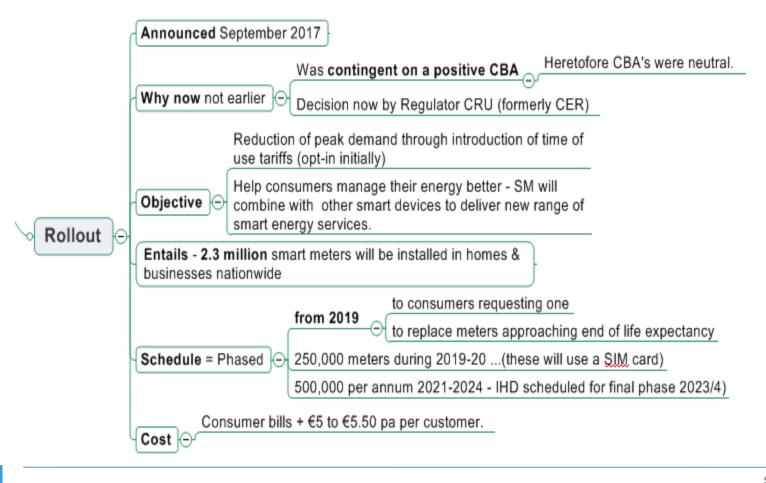
Q.16 Thinking specifically of the amount you are now spending on your energy bill comparing with before receiving the smart energy control, would you say your spend on energy has increased, stayed the same or decreased?

Base: All Respondents: 415



Q.17 Taking your overall experience with your smart energy control to date, please indicate the extent to which you agree or disagree with the following statement.

### Smart Meter Rollout in IE





### Other opportunities for Apps?

- DCCAE currently have open consultation with businesses in IE, Objective is twofold.....
  - outline benefits energy efficiency delivers for businesses and supports currently available
  - opportunity for businesses to be heard on how they could be better supported to improve energy efficiency.
- Taking opportunity to ask about apps.....



#### 12. \*Digital Technology Potential

Energy management is easier with the right information. Digital resources and technology can often help.

Do you use any form of digital technology (apps, sensors, etc.) to monitor or manage your energy consumption?

(-)	3.7	

No

Dont Know

#### 13. What do you use?

### 15. \*Below are listed some technology related supports. Please indicate how useful you think each might be for your business.

	No Use	Little Use	Some Use	Very Useful
An online guide or				
App for digital				
devices which, based				
on answers input to				
questions would				
identify the main				
opportunities for				
energy saving in your				
business				
An online resource or				
App to indicate how				

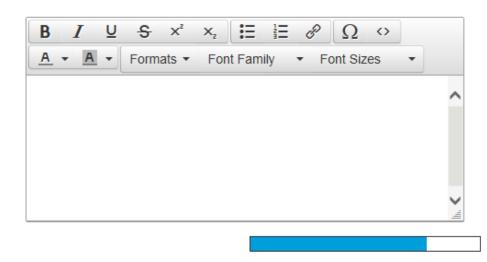


#### 20. Suggestions

If you have any suggestions on

- (A) other ways energy efficiency could be made easier or supported for businesses such as yours, or
- (B) ideas on how digital (e.g. app or web-based) technology could improve your businesses capacity to manage your energy use

please state them briefly in the box below, otherwise just click "Next".





Next

## Department of Communications, Climate Action & Environment

www.dccae.gov.ie

