



Intelligent Metering Initiative

Intelligent Metering Initiative

“What’s happening?”

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Content



Intelligent Metering Initiative

- Introduction to the IMI
- Last year's research outputs
- This year's research outputs
- Next year

The IMI



Intelligent Metering Initiative

- Set up in 2008
- *“Help the industry evaluate the role that intelligent (smart) metering may have in meeting industry and government goals”*
- Three main aims:
 - collate, communicate and share information
 - identify the key challenges and opportunities
 - co-ordinate, monitor and carry out research to provide solutions

IMI research - 2008



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- Methodology for cost benefit analysis of intelligent metering
- Data requirements specification
- Communications protocols
- A review of metering evidence and gap analysis

- All the above are available through UKWIR, see:
 - www.ukwir.org.uk



IMI research - 2009

- The impact of metering on demand
- Customer needs and attitudes
- Benchmarking meter practices and policies
- Multi-utility metering
- Metering in difficult to meter properties

Impact of metering on demand



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- Review recent information
- Analyse annual data company on:
 - Meter penetration, metered and un-metered consumptions
- Analyse the impact of external metering on customer side leakage
- Report due in December

Customer needs and attitudes



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- Joint project with Warwick Business School
- Examines research which has been conducted on customer behaviour
- Complemented by semi-structured interviews with water industry stakeholders
- Identifies the need for improved communications to customers to improve positive behaviour towards metering

Benchmarking



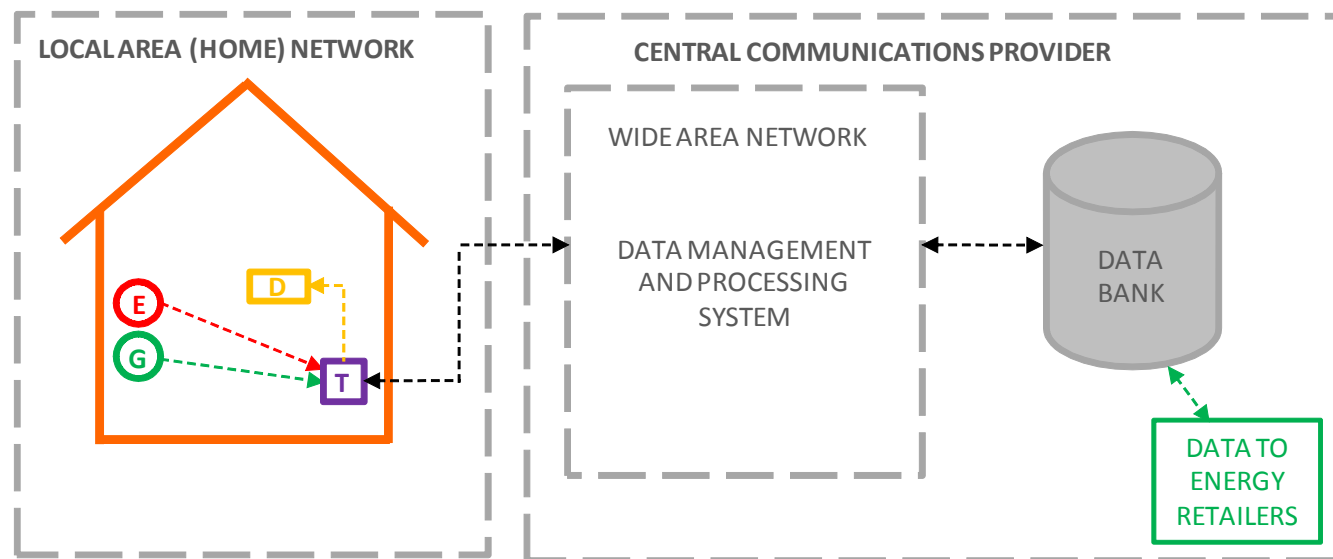
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- Updates two previous studies from 2003 and 2006
- Benchmarking includes:
 - Domestic metering policies
 - Meter location
 - Meter purchase and stock control
 - Costs and productivity
 - Service levels
 - Meter reading and billing
 - Demand saving and tariff systems
 - Leakage
 - Meter exchange
 - AMR
 - Meter dispute testing
 - Meter access



Multi-utility metering

- Proposal to roll out energy smart metering to all homes in UK by 2020 (DECC consultation)
 - 25,000,000 homes (50,000 per week)



Smart energy meters in every home

Two way communications into every home

Smart energy meter functionality & water?



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Functionality	Gas	Elec	Water
Remote provision of accurate reads or other information	✓	✓	✓
Two way communications to the meter system	✓	✓	✓
Home area network (open protocol, provide real-time to a home display unit, allow other devices to link to the meter system)	✓	✓	✓
Support for a range of time of use tariffs	✓	✓	✓
Load management capability		✓	
Remote disablement and enablement of supply	✓	✓	
Exported electricity measurement		✓	
Capacity to communicate with a micro-generators		✓	
Leakage management			✓

Multi-utility metering project



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- Review what's happening with smart energy metering
 - Roll out
 - Energy demand reduction project
- Smart metering standards in Europe
- Identify potential opportunities for the water sector
- Identify the next steps

Next year



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- Continue to support on intelligent metering:
 - Summary of legislation, regulations and standards
 - Work with the proposed smart meter group
 - Smart energy metering roll out
 - European standards
 - Research on evidence gaps



More information:

www.imi-metering.co.uk