

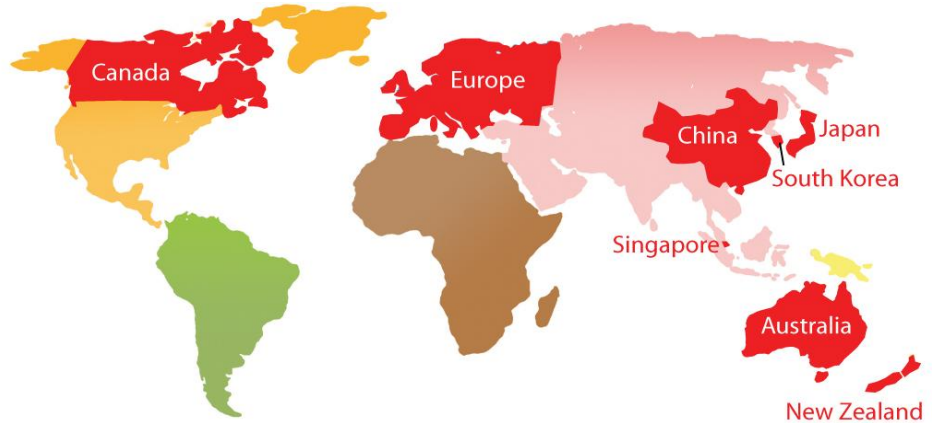
Residential Energy Management: Energy Savings & Utility Activities around the World

By Bill Ablondi, Director, Home Systems; Farhan Abid, Research Analyst; and Laura Allen Phillips, Research Analyst 4Q 2009

Synopsis

The report provides information on the communication technologies being implemented, profiles of companies and organizations impacting the deployment of smart meters and smart grid, and the drivers and challenges encountered by stakeholders. It also offers an overview of the regulatory environment in Canada, Europe and the Asia-Pacific.

Utility Deployments and Activities: Canada, Europe & the Asia-Pacific



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“The implementation of smart meters throughout the world has grown exponentially over the past couple of years. Approximately 100 million smart meters are projected to be deployed in Europe by 2014, and some of the key drivers impacting the deployment are similar across a number of regions,” says Bill Ablondi, Director of Home Systems Research, Parks Associates. “The development of technology, rising demand for energy and regulatory standards all play a role in upgrading the world’s antiquated electric power grids.”

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 - Canada
 - Belgium
 - Denmark
 - France
 - Germany
 - Republic of Ireland
 - Northern Ireland
 - Italy

Netherlands
Sweden
U.K.
Australia
China
Japan
Korea
New Zealand

7.0 Communication Technologies

Cable (Fiber optic)
Cellular
Power Line Carrier (PLC)
Tower Based Radio Signal
Wi-Fi
WiMAX
6LowPAN
G.hn
Insteon (SmartLabs)
KNX
LonWorks (Echelon)
Wi-Fi
ZigBee
Z-Wave

8.0 Key Players

8.1 Aclara
8.2 Echelon Corporation
8.3 Elster Group
8.4 GE
8.5 Itron Inc.
8.6 Kamstrup A/S
8.7 Landis+Gyr (L+G)
8.8 Sensus
8.9 Telvent Git S.A.
8.10 Yello Strom GmbH/Microsoft/Google

9.0 Government Organizations

9.1 Office of Gas and Electricity Markets (Ofgem) – U.K.
9.2 Ontario Energy Board (OEB) – Ontario, Canada
9.3 Seventh Framework Program (FP7) - Europe
 Digital Environment Home Energy Management System (DEHEMS) project
 SmartHouse/SmartGrid Project
9.4 Singapore’s Energy Market Authority (EMA)

10.0 Industry Associations

10.1 Energy Retail Association – U.K.
10.2 Energy Services Network Association (ESNA)
10.3 European Smart Metering Industry Group (ESMIG)
10.4 Joint U.S.-China Collaboration on Clean Energy (JUCCE)

11.0 Appendices

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 New Zealand Smart Metering Activities
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