

Synopsis	Smart Meters in U.S. Households																
<p>There are many initiatives underway in the U.S. to promote residential energy management and conservation. Promised benefits include reduced energy bills, enhanced comfort and convenience and the knowledge that consumers are reducing their carbon footprint. This report is a reference book of companies developing the technologies, deploying the systems and building business models that capitalize on bringing the smart grid to the home.</p>	<p style="text-align: center;">Households with AMI-Capable Meters (U.S. Only)</p> <table border="1"> <caption>Households with AMI-Capable Meters (U.S. Only) - Millions of Households</caption> <thead> <tr> <th>Year</th> <th>Millions of Households</th> </tr> </thead> <tbody> <tr> <td>2006</td> <td>~0.5</td> </tr> <tr> <td>2007</td> <td>~1.5</td> </tr> <tr> <td>2008</td> <td>~3.5</td> </tr> <tr> <td>2009</td> <td>~10.0</td> </tr> <tr> <td>2010</td> <td>~20.0</td> </tr> <tr> <td>2011</td> <td>~35.0</td> </tr> <tr> <td>2012</td> <td>~55.0</td> </tr> </tbody> </table> <p>© 2009 Parks Associates Updated June 2009</p>	Year	Millions of Households	2006	~0.5	2007	~1.5	2008	~3.5	2009	~10.0	2010	~20.0	2011	~35.0	2012	~55.0
Year	Millions of Households																
2006	~0.5																
2007	~1.5																
2008	~3.5																
2009	~10.0																
2010	~20.0																
2011	~35.0																
2012	~55.0																

Publish Date: 2Q 09

“A key component of AMI is the smart meter, which is a digital meter capable of processing and reporting usage data to providers and households via two-way communication between meters and utility offices,” said Bill Ablondi, Director, Home Systems Research, Parks Associates. “Utilities see the benefit of upgrading the grid, and consumers are growing more conscious of their energy consumption. Add in incentives from the government, and you have three strong drivers that will boost deployment and innovation in this market.”

Contents	
<p>Company & Alliance Profiles are summaries of an organization's activities, offerings, and business strategies.</p> <p>Technology Profiles provide an overview of a technology's capabilities, positive attributes, and drawbacks, with a summary of firms developing products or supporting the technology.</p>	<p>1.0 Introduction</p> <ul style="list-style-type: none"> 1.1 Selection of Companies to Profile and Scope of Information <ul style="list-style-type: none"> 1.1.1 Types of Profiles 1.2 Acronyms and Industry Terms <p>2.0 Competitive Comparisons</p> <p>Home Area Network Solutions and Components</p> <ul style="list-style-type: none"> 4Home Black & Decker Cisco Systems Clipsal Control4 Ecobee Energate Exceptional Innovation GreenSwitch Google Home Automation Inc. iControl Micrsoft/Yello Storm

Powermand Inc.
Schalge
Tendril
uControl
Metering Solutions
Comverge
Echelon
Elster
GE
Itron
Landis+Gyr
Sensus
Smart Grid Enablers
AT&T
Carina
Consert
Grid Net
GridPlex
GridPoint
Lixar
SilverSpring
SmartSynch
Trilliant

3.0 Home Area Network (HAN) Communications and Control Technologies

6LowPan
EnOcean
HomePlug AV
HomePlug C&C
Insteon
Zigbee
Z-Wave

4.0 Company Profiles: Home Area Network Solutions and Component Suppliers

4.1 4Home
4.2 Control4
4.3 ecobee
4.4 Energate
4.5 Exceptional Innovation (Life|ware)
4.6 Google
4.7 Home Automation, Inc.
4.8 iControl
4.9 Microsoft/Yello Strom GmbH
4.10 Tendril
4.11 uControl

5.0 Company Profiles: Metering Solutions Manufacturers

5.1 Comverge Inc.
5.2 Echelon Corporation
5.3 Elster Group
5.4 GE
5.5 Itron Inc.
5.6 Landis+Gyr

5.7 Sensus

6.0 Company Profiles: Smart Grid Enablers

- 6.1 Consert Inc.
- 6.2 GridPoint
- 6.3 Lixar SRS
- 6.4 Silver Spring Networks
- 6.5 Trilliant Incorporated

7.0 Technology Enablers

Selected Technology Enablers

- Ember
- GainSpan
- Greenbox
- Intellon Corp.
- Teridian Semiconductor
- Texas Instruments Inc.
- Watteco

8.0 Alliances

- 8.1 DRSG: Demand Response & Smart Grid Coalition
- 8.2 EnOcean Alliance
- 8.3 The Gridwise Alliance
- 8.4 HomeGrid Forum
- 8.5 HomePlug Powerline Alliance
- 8.6 INSTEON Alliance
- 8.7 IPSO (IP for Smart Objects)
- 8.8 LonMark International
- 8.9 ZigBee Alliance
- 8.10 Z-Wave Alliance

Figures

- Participants Entering the Smart Grid Market
- Home Area Network Solutions and Components
- Metering Solutions
- Smart Grid Enablers
- HAN Communications and Control Technologies
- 4Home Energy System Description
- Control4 Revenues and Installations
- Control4 Home Energy Manager
- ecobee's Smart Thermostat
- Energate's Energy Management Suites and Thermostat: Features and Functions
- Google.org Energy System Description
- Selected HAI Energy Management Products
- iControl's Distributed Software Platform
- Tendril Residential Energy Management Systems Product Overview
- uControl Functions
- uControl User Interface
- Comverge Hardware products and features
- Comverge software and features
- Echelon NES System Components
- Advanced Grid Infrastructure Components
- Overview of GE's Residential Energy Management Products

Itron OpenWay Components
 Itron Acquisitions
 Gridstream Suite Elements and Key Features
 Sensus FlexNet System components and features
 GridPoint Product Overview
 Silver Spring Networks Product Overview
 Trilliant Platform Components
 Technology Enablers are Providing Participants with Innovative Solutions
 Technology Enablers Competitive Comparisons

Attributes

Parks Associates
 5310 Harvest Hill Road
 Suite 235
 Lock Box 162
 Dallas TX 75230-5805

 800.727.5711 toll free
 972.490.1113 phone
 972.490.1133 fax

 parksassociates.com
 sales@
 parksassociates.com

Authored by Bill Ablondi and Farhan Abid
 Executive Editor: Tricia Parks
 Published by Parks Associates

© May 2009 Parks Associates
 Dallas, Texas 75230

All rights reserved. No part of this book may be reproduced, in any form or by any means, without permission in writing from the publisher.

Printed in the United States of America.

Disclaimer

Parks Associates has made every reasonable effort to ensure that all information in this report is correct. We assume no responsibility for any inadvertent errors.

Project

This report is part of the Parks Associates project **Residential Energy Management: Opportunities for Digital Systems and Services.**

For more information, visit www.parksassociates.com or contact sales@parksassociates.com.