Smart Meters Go Beyond AMI

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Kevin Fennell - Director, Strategic Sales at Landis+Gyr

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The Evolution of Metering

Smart Metering is at the heart of the energy industry revolution.

1920

2000

2020 and beyond
The Evolution of Metering

NEW YORK - SMART METER DEPLOYMENT

DESCRIPTION

Advanced metering technologies (AMI) or "smart meters" are meters or a system of meters that transmit energy use information from residential or commercial customers in various time increments, or resolutions, from minutes to hours. More data transmission is a higher resolution. The higher the resolution of the data the more valuable the information is to the customer or the utility. High resolution data from AMI meters enable utilities and third party providers to gather energy usage trends, identify outages, and implement and track energy efficiency practices all without having physically go to a site to read a meter thereby increasing efficiency and decreasing cost. The dynamic nature of the data allows for dynamic rate structures that can send pricing signals to customers to promote particular energy practices that are desirable to the utility or the public. It also allows third parties to market energy information and management services to customers if policies are in place to support.

Data in increments of hours to minutes

The higher the resolution of the data the more valuable to the customer & utility

Allows third parties to market energy information & management services to customers if policy supports
STANDARDS
Defining the Path

Wi-SUN Alliance

NEMA
National Electrical Manufacturers Association

IEEE
Advancing Technology for Humanity

ANSI
American National Standards Institute
Embracing the Changing Consumer
Embracing the Changing Consumer

No action is required of customers who want to stay on their current pricing plan.

Residential pricing plans:

**Time-of-Use (TOU)**
Shift a majority of your usage to off-peak hours and reduce your monthly bill.

**Peak Demand**
Pay lower energy rates plus a charge for your highest hourly on-peak usage.

**Demand TOU**
Combines demand and time-of-use components to maximize your savings opportunities.

**Basic**
Pay bills based on your total monthly electric use, regardless of when it occurs.
Managing the Grid
Managing the Grid

Fault Indicators and Sensors
The Meter of the Future
The International Energy Agency predicts that through 2030, off-grid energy systems are the cheapest option for 70 percent of rural users who will gain electricity access.
Questions?
Thank You

Kevin Fennell
Strategic Sales Director
612.867.3799
kevin.fennell@landisgyr.com