

Energy Metering and Power Quality Metering in North-America: Energy Management and Billing Services for Commercial, Institutional, Multi-Family, and Industrial Applications

The general Meter-Market is dividable in 2 Business fields: Building Applications and Industrial Applications. Expected revenues for building applications are about almost US\$500 million, with a strong growth in the next years and changes from billing services to energy management. The building sector has following segments:

- Commercial
- Institutional
- Multi-Family
- Single-Family

Power quality meters market is growing up to US\$1.5 billion in the next years. Primarily find major application in industries & manufacturing facilities.

In 2015, industrial and manufacturing was the largest segment of the Power Quality Meter Market, and accounted for the largest share of the total market. The meters are installed at the incoming of the power source to monitor the distortions in voltage and harmonics:

- Any distortions and fluctuations are harmful for the equipment such as motors, servers, and others.
- Power quality meters are used extensively to prevent damages to expensive and critical equipment.
- The increasing industrial growth across the developed and developing regions would in turn raise the demand for power quality meters.

Possible Questions to be answered:

- What is the current market size for the different segments and what is it expected to grow?
- What is the current device technology standard for the several applications and what does this mean for the installation?
- How much is that part of a smart home in North-America? Is energy efficiency a driver in residential?
- What type of protocol is most common in building and in industrial applications?
- How common/accepted is the “Internet of things”-integration in this metering?
- Who are the big players in the several segments and how they penetrate the market?
- What market entrance barriers exist for new suppliers?
- What metering and monitoring is required by national codes? What is required for the different type of buildings? Which Policies drive which segment? Does Canada asapt regulations of the U.S.?
- Who are the stakeholders in the different segments?
- Who are the decision makers and influencers in the specification and purchasing process?

Approx. 10-12 pages

- Title/Authors

- Market intelligence
 - Market Size & Segments
 - Market Size NAM and by Countries
 - Power Quality Meter
 - Sub-/Energy Meter

- Technology Trends
 - BEMS – Building Energy Management Systems
 - Device Technology
 - Communication protocols
 - IoT – Internet of things

- Policy influences & other voluntary drivers
 - Federal Facilities
 - EPA of 2005 – Energy Policy Act of 2005
 - FEMP - Federal Energy Management Program (FEMP)
 - Residential
 - ICC/ASHRAE-700-2015
 - NAHB - National Association of Home Builders
 - Energy Star/Tenant Star
 - Commercial Buildings
 - Local Laws
 - ASHRAE
 - LEED

- Target Groups & Go-To-Market Approach Metering & Measurement USA
 - Stakeholders & Business objectives
 - Challenge of demonstrating the business case for end-users

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