

Trends for Smart Grid Adoption - 2010 Report

I-Micronews

The term “smart grid” is used more and more, but its definition is still subject to controversy since its usage covers a wide range of technical fields. In this report, Yole Développement’s analysts suggest a three-layer definition for “smart grid”: a software layer, a communication & sensors layer and a power layer. The report provides a global understanding of the smart grid concepts, following two main approaches:

- Smart grid related to new architectures using communication devices and sensors,
- Smart grid related to electricity transportation and distribution platform equipped with power electronics components and modules.

Report Highlights

This report details how the companies envision business opportunities in the Smart Grid world and covers a broad range of their potential applications. From startups to heavyweights, companies are betting that energy management will be the next big thing. Intel, Google, Cisco & GE, for instance, are all investing in tomorrow’s technologies to create the “smart grid momentum”.

Market Trends

With the growing need of power consumption (from 15 400 B kWh in 2000, to 25 000 B kWh in 2015), national grids require more quality and reliability to regulate electricity flows.

We estimate the total market for power components – IGBTs and thyristors for both DC and AC electricity transport configuration – to grow from \$30 million in 2010 to \$50 million by 2015; and the equivalent power modules to increase from almost \$60 million this year to \$100 million in 2015.

This report helps to understand the overall stakes of smart grid adoption, providing an accurate time to market and player challenges to overcome.

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