

## 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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