



Global Summit on  
**Smart, Secure &  
Sustainable Cities**  
OPPORTUNITIES AND CHALLENGES IN INDIA

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## Smart Grid and India's Quest for Sustainable Development: India to get 'Smart' with Electricity Grid Investments

- **India is the largest smart grid opportunity in the world, presenting new opportunities to international companies.**

With India's electricity demand growth set to exceed 7% per year over the next decade, the smart grid is a unique opportunity to leapfrog into a vastly improved electricity environment. This provides significant opportunities for international companies to provide grid modernization and load reduction technologies by partnering with Indian utilities as the country develops 100 smart cities.

The Indian Government is helping stimulate the smart grid market by developing 14 smart grid pilot projects across the country. These projects, running until 2017, are testing a diversity of technologies and will help set best practices and cost expectations for future deployments. India's pilot efforts are expected to last until 2017, at which point the government has set a roadmap that calls for large-scale deployments to all large metropolitan areas by 2022 and across the country by 2027. These plans also call for additional investment in renewable energy and micro-grid projects.

In addition to smart metering, current pilot projects focus on distribution automation and wide area measurement, as well as home energy management and IT. Overall power sector investment will include adding 43 million new electricity connections and nearly 3 million kilometers of new circuits. For international companies, largely closed out of the China market, India represents the largest long-term smart grid opportunity in the world.

Expanding the use of smart grid technologies will also be instrumental as India strives to rapidly increase generation from variable renewable sources. Smart grid systems can help integrate multiple, variable renewable energy sources by directing the power efficiently to electricity end users. The Government's demonstrated commitment to transitioning to a smart grid infrastructure is a strong and necessary step toward a more sustainable energy future for India.