

## Smart Grid City

Xcel Energy's Smart Grid Consortium is working towards a future when our energy grid can predict its problems and strengths while optimizing available resources.

The Consortium has announced plans to build Smart Grid City, a community that combines traditional and emerging technology to move the energy grid into the digital age.

This next-generation grid will allow customers and utilities to collaboratively manage power generation, delivery and energy consumption. Smart Grid City will boast a fully inter-connected energy system capable of managing the various parts of the grid involved in producing power and delivering it to consumers. Key components of Smart Grid City include: A dynamic system rich in information technology • High-speed, real-time, two-way communications • Sensors throughout the grid enabling rapid diagnosis and corrections • Decision-making data and support for peak efficiency • Distributed generation technologies (such as wind turbines, solar panels, and plug-in hybrid electric vehicles) Automated "smart substations" In-home energy control devices Automated home energy use