



# our clean energy future

advanced technology. energy efficiency. business innovation.

The Solar Electric Power Association has ranked Xcel Energy No. 5 in the nation for solar capacity.



## our clean energy future

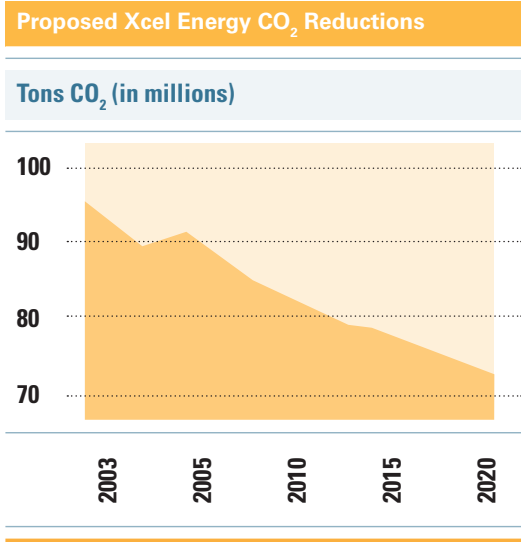
Xcel Energy is committed to renewable and other clean energy technologies and is developing business strategies that position our company for the regulation of greenhouse gases. We are building a clean energy future for our customers and the communities we serve by investing in advanced technology, innovating our business and engaging our customers in energy efficiency.

### Reducing carbon emissions today

Since 2003, we have reduced our carbon dioxide emissions by 26 million tons cumulative. Last year we introduced groundbreaking resource plans that will help us achieve a 15 percent reduction in carbon dioxide emissions by 2020 from 2005 levels.

**To help achieve our carbon dioxide reduction goals by 2020, we are:**

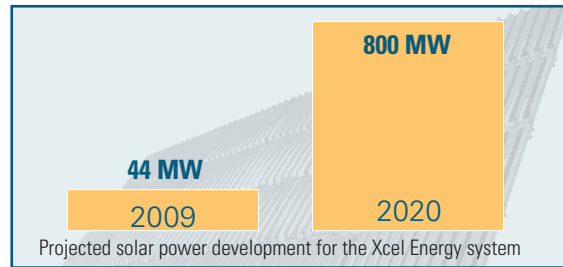
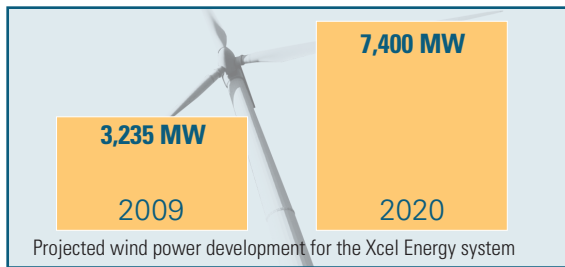
- Increasing our use of renewable energy to 25 percent of our energy mix,
- Helping our customers save about twice as much energy as they are saving today,
- Repowering two aging coal plants with cleaner natural gas in Minnesota,
- Converting a coal plant in Wisconsin to the largest biomass plant in the Midwest, and
- Retiring two older coal plants in Colorado.



Reflects owned and purchased generation, and also includes wholesale sales.

# investing in advanced technology

We are growing our portfolio of renewable resources and other clean energy technologies



## Expanding our use of solar energy

In the coming years solar will play a more prominent role in our energy mix. We have:

- Issued a request for proposal to acquire up to 600 MW of firm solar thermal power with storage by 2015;
- Installed more than 34 MW of on-site solar energy through our Solar\*Rewards incentive program for customers; and
- Agreed to purchase power from a 17-MW solar facility, scheduled for completion in 2010. We currently purchase power from an 8.2-MW solar facility.

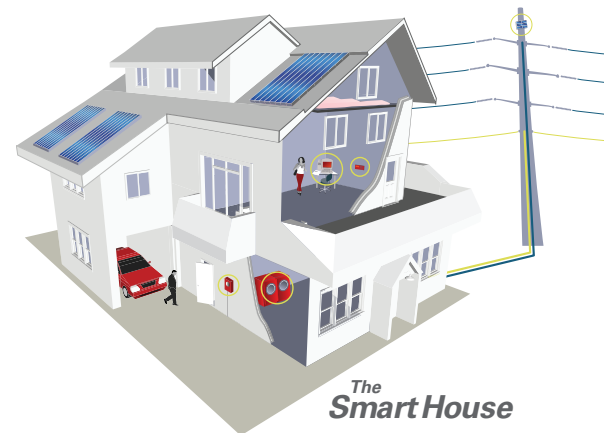
# innovating our business

We are forging partnerships and collaborations for the future

## Smart Grid — transforming the electric power grid

Our SmartGridCity™ pilot project in Boulder, Colo., is the nation's first comprehensive demonstration and test of smart grid technologies. We have brought together a consortium of leading technologists, engineering firms, business leaders and IT experts to create a much-improved grid for the digital age. Smart grid technology can provide environmental benefits, such as:

- Greater energy-efficiency and conservation options,
- Increased use of renewable energy resources, and
- Support for plug-in hybrid electric vehicles and intelligent home appliances.



## Renewable resource development — fostering the advancement of emerging technologies

Xcel Energy is partnering with the National Renewable Energy Laboratory to research, demonstrate and deploy clean energy projects, including:

- Renewable energy storage,
- Improved wind forecasting, and
- Plug-in hybrid electric vehicles.

Our vision for the Solar Technology Acceleration Center (SolarTAC) is becoming a reality in Aurora, Colo. A collaboration between private and public sponsors, SolarTAC will be a world-class facility for demonstrating and testing new solar energy technologies.

**SolarTAC**  
Technology Acceleration Center

We have proposed to Colorado utility regulators the formation of an Innovative Clean Technology Program that would test and demonstrate promising clean energy projects. The first project would involve concentrating solar technology integrated into one of our existing coal-fired power plants.



# engaging our customers in energy efficiency

We are a leader in energy efficiency and conservation

Xcel Energy runs some of the largest demand-side management (DSM) programs in the nation. Since 1992, our customers have saved enough electricity to enable us to avoid building nearly eleven 250 MW power plants. Each year our energy conservation projects save enough electricity to power 50,000 homes. Our goal is to double this by 2020.



Our goal is to save enough electricity to enable us to avoid building nearly twenty two 250 MW power plants by 2020

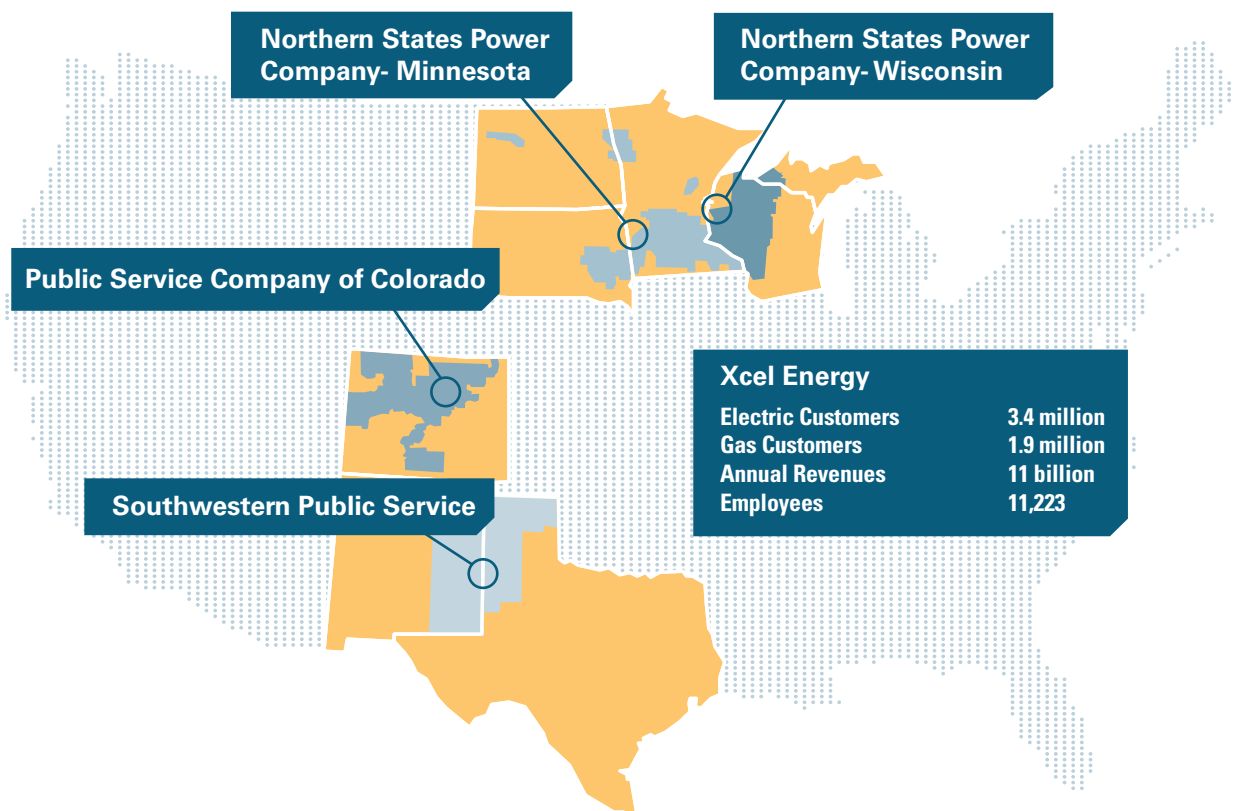
Working together, through our energy-efficiency programs, our customers will save more than 900,000 megawatt hours of electricity annually by 2020. That's enough electricity to power over 113,000 homes today.



Xcel Energy is the nation's No. 1 wind power provider, according to the American Wind Energy Association, and our use of wind power continues to grow.

# about xcel energy

We are a U.S. investor-owned electricity and natural gas company, providing products and services to customers through our four wholly owned utility subsidiaries.



→ For the past two years, Xcel Energy has been recognized as part of the Carbon Disclosure Project's Leadership Index within the S&P 500 for the thoroughness and quality of our environmental disclosure.



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