

Duke Energy's Renewable & Clean Energy Initiatives

WIND

- Duke Energy generates 735 megawatts (MW) of electricity at wind farms it owns in Pennsylvania, Texas and Wyoming. The company will bring an additional 251 MW on line by December 2010.
- Duke Energy buys 100 MW of electricity from a wind farm in Indiana.
- Duke Energy provides wind-generated electricity for up to 15 percent of Wal-Mart's 360 buildings in Texas.
- Duke Energy has proposed one of the nation's first offshore wind projects: up to three turbines at a demonstration site on North Carolina's Atlantic coast.

SOLAR

- Duke Energy owns a 14-MW solar farm in Texas and a 1-MW solar farm in North Carolina.
- Duke Energy buys 4 MW of electricity from an independently owned North Carolina solar farm – the state's largest at 16 MW when completed.
- Duke Energy is installing solar panels on office buildings, manufacturing plants, schools and warehouses to create an 8-MW generation network in North Carolina.

HYDRO

- Duke Energy maintains 3,200 MW of hydroelectric capacity as the second-largest, investor-owned hydro operator in the U.S. The company owns and operates an additional 3,000 MW of hydro in South America.

BIOMASS

- Duke Energy and AREVA operate a joint venture that builds biomass-fueled power plants – the nation's first biomass-to-electricity partnership between two major energy companies.
- Duke Energy is testing the use of biomass mixed with coal at some of its traditionally all-coal power plants.

LANDFILL GAS

- Duke Energy buys 5 MW of electricity generated by the combustion of methane gas from decaying garbage at two landfills in North Carolina and South Carolina.

ELECTRIC VEHICLES

- Duke Energy is working closely with automakers, utilities and software firms to lay the groundwork for widespread deployment of electrical outlets and other infrastructure to accommodate the coming wave of plug-in electric vehicles.

ENERGY EFFICIENCY

- Duke Energy is investing \$1 billion in smart grid technology to improve the efficiency of its substations, power lines, and electric and gas meters.
- Duke Energy operates major energy efficiency programs to help its 4 million customers in North Carolina, South Carolina, Indiana, Ohio and Kentucky use less electricity, without impacting comfort or convenience.

THE FUTURE

- Duke Energy is studying ways to use renewable energy and energy efficiency programs to potentially meet nearly 25 percent of its customers' electricity demand by 2030.

