

Progress Energy Florida's Commitment to Energy Efficiency and Alternative Energy Sources

What's most important to know?

Progress Energy provides affordable, reliable electric service as well as helpful ways for customers to use energy efficiently and save money on their power bills. We are committed to the development of renewable and alternative energy sources as critical parts of the balanced solution to meeting tomorrow's energy needs reliably and affordably.

Energy Efficiency

Since 1981, Progress Energy Florida's energy-efficiency programs have:

- Achieved total reductions of more than 10 billion kWh of electricity (roughly equivalent to the city of Orlando's electricity usage over two years)
- Resulted in more than 1,500 megawatts of demand reduction
- Saved customers almost \$750 million.
- Avoided 6.24 million tons of carbon dioxide emissions – equal to removing 95,500 cars from roads per year or equal to planting 161,000 acres of trees.

Two examples of energy-efficiency programs are:

- **Home Energy Check** – Each year we conduct more than 35,000 home energy audits and recommend energy-efficient improvements.
- **Home Advantage** – This program trains new home builders in the most effective techniques for building energy-efficient housing. We offset some of the incremental costs to the builder for the efficiency upgrades and help build demand for the homes through advertising and promotion.

The State of Florida recently approved Progress Energy's plan to increase financial incentives for the energy-efficiency programs we offer to customers. The goal is to attract new participants to the programs, and to continue to educate contractors and builders on energy-efficient construction, because doing so helps to manage energy resources now and in the future. Newly approved offerings include low-income assistance programs, incentives for installation of renewable-energy technology for residential customers, home energy-improvement programs, energy-management programs and new construction programs for residential, commercial and industrial customers.

Renewable and Alternative Energy

- **SunSmart schools** – An initiative to install solar photovoltaic systems in Florida schools and teach students about renewable energy. We have installed solar photovoltaic systems in five Florida schools.
- **Landfill methane gas** – We have agreed to purchase about 14 MW of electricity generated from landfill gas in central Florida, beginning in 2008.
- **Hydrogen initiatives:**
 - **Hydrogen refueling stations** – In partnership with BP and Chevron, we are building two hydrogen fueling stations on our property in central Florida.
 - **Hydrogen vehicles** – Some of our energy-efficiency specialists drive hydrogen-fueled vehicles.
 - **Sustainable hydrogen generator** – We teamed with the Florida Department of Environmental Protection to develop a sustainable hydrogen generator and fuel cell at the Homosassa Springs state wildlife park.
 - **Uninterrupted power source** – We are researching the feasibility of using an alternative UPS powered by a 5 kW-hydrogen fuel cell. There is a demonstration project at an assisted living facility in Florida.
- **Energy from plants** – We have recently signed an agreement to purchase energy generated by a 130-megawatt power plant proposed for central Florida. The plant will use a fast-growing, bamboo-like plant as fuel. Projects such as this can help reduce the need to burn other fuels.
- **Other renewable sources** – We purchase 144 MW of power from local waste-to-energy incinerators in Florida and 20 MW from four heat recovery/cogeneration plants.

For more information, go to www.progress-energy.com/poweringthefuture.

