

## Energy Efficiency Pays XYMOGEN Case Study



Duke Energy presents Xymogen with \$48,000 in rebates. From left to right: Brian Blackburn, Stephanie Blackburn, Margie Sikes and Sean Bollinger.

### QUICK FACTS

**Location:** Orlando, Fla.

**Project completed:** May 2013

**Products installed:** Energy recovery ventilators, demand-controlled ventilation, cool roof and window film

**Rebates from Duke Energy:** \$48,000

“Duke Energy was instrumental in helping us design a sustainable building, and our reduction in electric bills allowed us to further develop our business plan. We’re proud to accept this award and look forward to sharing our experiences with others wanting to use energy efficiency as a way to grow their business.”

— **Brian Blackburn**  
President and CEO of XYMOGEN

### Overview

XYMOGEN® is a family-owned health sciences company in Orlando, Fla. From its inception in 1990 as a distributor of vitamins, the company’s operations grew to include manufacturing and packaging. As their business grew, so did their need for more space. In 2011, XYMOGEN began planning a new energy efficient, environmentally friendly building and contacted Duke Energy for help. In February 2014 XYMOGEN received the inaugural Triple E Award (Energy Efficiency Effort) presented by the Florida Public Service Commission for their newly constructed facility.

### Opportunity

XYMOGEN needed information on how to best utilize Duke Energy’s incentives to reduce the capital cost of installing enhanced efficiency equipment. Comparing the design needs of the building with the available incentives, we recommended four main focus areas:

- Demand control ventilation (DCV) – This technology incorporates sensors that communicate with the HVAC system to help increase the overall efficiency of the system by re-conditioning already conditioned air in the building.
- Energy recovery ventilators (ERV) – Conditioned air that is being exhausted outside is captured and reused.
- Cool roof – A cool roof prevents much of the sun’s radiant energy from entering the building, reducing cooling costs.
- Window film – In addition to reflecting radiant energy, window film reflects harmful UV rays helping extend the life of carpet and fabrics.

### Results

XYMOGEN incorporated these four technologies in the design and construction of their building and received a \$48,000 incentive check from Duke Energy. The new facility includes an ultramodern manufacturing and packaging system, merchandise center, research laboratories, a warehouse, marketing studios, customer care, digital printing services and administrative services. The efficient design will keep energy costs below \$3 per square foot annually for the entire facility.

In addition to the energy cost savings, the thermal comfort of the building is excellent, employee productivity has increased and maintenance costs have decreased. These benefits will prove much more valuable over time than the cost savings strictly related to energy.

### Energy Efficiency for Business

Duke Energy’s collaboration with XYMOGEN is one of many partnerships forged with business owners, builders, developers and contractors. Duke Energy’s energy efficiency rebate programs are available for both new construction and retrofit projects. With these incentives, you can significantly reduce your up-front project costs and gain financial leverage to make upgrades to your facility that will save energy and money.

To learn more about Duke Energy’s incentive and rebate programs in your area, please visit [duke-energy.com](http://duke-energy.com).

