

## Contract Details

### Contract Type:

Energy Efficiency; Energy Savings Performance Contract; Guaranteed Energy Savings; Solar Thermal; Campus-Wide Energy Awareness Program

### Facility Size:

61 facilities, 5.2 million square feet

### Energy Project Size:

\$24.7 million

### Energy Savings:

\$2,430,383 annually

## Summary

Located in Lexington, the University of Kentucky is among a handful of public research universities in the country that have the full range of academic offerings, from agriculture to medicine, engineering to fine arts. The University has an earnest vision of doing everything possible to support the work of faculty and staff and the learning environment for students. UK partnered with Ameresco to launch an aggressive campaign to reduce its carbon footprint, which includes not only energy efficiency and renewable energy, but a campus-wide program to engage the student body.



## Customer Benefits

The concept of energy savings performance contracting began at the University of Kentucky (UK) with the President's Sustainability Advisory Committee's "see blue. go green" phrase. The entire university embraced this "budget-neutral" way of implementing energy-efficient upgrades that will reduce energy consumption and improve the campus learning environment.

Founded in 1865, UK is a public, research-intensive, land grant university dedicated to enriching lives through excellence in teaching, research and service. UK's campus covers more than 716 acres and has more than 27,000 students.

UK has long accepted its mission to provide excellent education to outstanding resident and non-resident students, recognizing that a knowledgeable populace is the best foundation for a prosperous Commonwealth. UK consists of about 200 major and degree programs in 17 academic and professional colleges. UK boasts over 70 national rankings for academic excellence.

As a part of its plan to be a nationally recognized, Top 20 public research institution, UK has made a commitment to sustainable campus development and to graduating students who are prepared to be responsible global citizens. In their research, curriculum, facilities and operations, UK is working to foster an institutional culture of sustainability.

## Accolades

*"Creating a more energy-efficient campus community is something I have championed for the past nine years. Conservation of our natural resources is not only good for our bottom-line, it is good for the future strength and vitality of our Commonwealth. I am proud that our partnership with Ameresco will help us utilize our resources in a more sustainable manner."*

*- Lee T. Todd Jr.  
UK President*

## Environmental Benefits

Through UK's partnership with Ameresco, they will reduce their carbon footprint. The annual green benefits from this carbon reduction equal:

- ▶ the removal of 23,490 tons of CO<sub>2</sub>
- ▶ the removal of 46,234 cars from the road
- ▶ the powering of 5,305 average-size homes
- ▶ the planting of 62,908 acres of trees

## Services Provided

After a competitive bid process, UK chose Ameresco to create the first step in an aggressive energy-efficiency plan for 61 campus buildings. Included in the list is UK's nationally recognized research library system, with the capstone being the world-class William T. Young Library and the UK Chandler Medical Center, one of the nation's finest academic medical centers. The cornerstone of this program is a student engagement and energy education



**University of Kentucky**

We "see blue" at the University of Kentucky. We're home not only to powerhouse basketball and the best of intercollegiate athletics, we're also nationally ranked in more than 70 academic programs. We're charting an aggressive, exciting path toward becoming a Top 20 public research institution. "See blue" is a lot of things, but most of all it's about helping students realize their potential and harness the power of their dreams.

*For more about UK's efforts to become a Top 20 University and how we "see blue," visit [www.uky.edu/OPBPA/business\\_plan.htm](http://www.uky.edu/OPBPA/business_plan.htm).*

**About Ameresco**

Ameresco, Inc. (NYSE:AMRC) is one of the leading energy efficiency and renewable energy services providers. Our energy experts deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy, supply management, and innovative facility renewal all with practical financial solutions. Ameresco and its predecessors have constructed billions in projects throughout North America.

*For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please visit [www.ameresco.com](http://www.ameresco.com).*



**Services Provided (cont.)**

awareness program to engage students and faculty as invested parties in the project's success.

In this time of state budget limitations, this project will implement significant electrical, mechanical and water saving measures on a budget-neutral basis. By leveraging traditional energy efficiency such as lighting and water retrofits, this project includes many major improvements to on-campus generation and to HVAC controls and monitoring systems. For example, these measures include heat recovery piping, steam trap replacements, hot water boiler turbulators, chilled water pumping in academic buildings, fume hood controls upgrade, solar domestic hot water heating system and HVAC system replacements.

A key project component will be the installation of new chilled water, steam and electric meters in each of the 61 buildings. This will allow UK to monitor cooling, heating and electric costs for each building. The new software will track energy use, allow the user to set up variances to send alarms if the building starts using more energy than it has in the past, and track greenhouse gas emissions on an individual building level. The sub-metering

information will also be used as part of a program to educate students and faculty on campus.

Ameresco worked collaboratively with UK to develop a program to educate students and faculty about energy use. The information gathered from the new meters will be part of the campus-wide energy education and awareness program. The goal is to weave energy and water conservation practices into the fabric of the community and engage all facets of the campus community in the activities of resource conservation to foster a community-wide attitude that values energy efficiency and leads to concrete behaviors that decrease energy consumption. This program improves efficacy of efficiency through training and proper use; communication between the campus community, administration and the Ameresco team; and demonstrable measurement combined with incentive systems designed to encourage responsible energy and water use.

