

## Cabrini College



### Situation

Just thirty minutes outside of Philadelphia, Cabrini College is an excellent example of what is possible and what is needed as Pennsylvania rate caps expire and electricity prices poise to escalate. Cabrini supports social responsibility as a graduation requirement. As a result, environmentally supportive solutions such as demand response have allowed students, faculty, staff and executive administration alike to become more aware, engaged and cooperative in helping the organization be successful.

### The EnergyConnect Solution

As an active FlexConnect and EventConnect ILR participant, Cabrini is able to take advantage of year round voluntary demand response opportunities when electricity prices rise plus earn standby payments during the summer to help stabilize the grid in case of reliability threats; thereby supporting the very power source that serves them on a daily basis.

Like most businesses and campuses in these trying economic times, Cabrini's facilities department took survey of where it could save money and found demand response as a high-impact solution. EnergyConnect relieved a large burden from Chief Engineer Robert Iodice's shoulders by helping him gain the benefits of demand response without having to worry about registration, reporting, metering, settlement and chasing payments. With demand response now firmly in place, Iodice is free to maximize his campus' energy management potential in the face of utility rate cap expirations.

“EnergyConnect allows me to curtail and control energy during peak times, generate revenue to pay for more efficiency initiatives and allows Cabrini to be a community example of sustainability. EnergyConnect has very creative solutions to meet customer expectations.”

- Robert Iodice, Chief Engineer

### Cabrini at a Glance in 2008

- Annual effective energy savings: 25%
- Cost reduction of over \$112,000
- 125,186 pounds of CO<sub>2</sub> saved

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# University Case Study: Cabrini College

## Getting EnergyConnected

Iodice implements a range of curtailment and load shifting strategies such as pre-cooling buildings, turning lights off in empty dorm rooms, turning televisions off in the fitness center, turning off idle computers, and making temperature adjustments to the facilities' chiller loop.

Cabrini's dining services provider jumped on board early to support the efforts by coordinating when and how they consumed energy. This effected not only direct energy costs from cooking but also the resulting cost from heating and cooling. Also, by partnering with the professional staff in the library, Iodice was able to implement the results of an energy audit, which showed that the library's thermal mass was high enough to allow air conditioning to be curtailed for eight hours resulting in only a two degree rise in space temperature. In both cases the inter-departmental cooperation was crucial to maximizing demand response during the most lucrative periods.

Iodice saw the results he was getting and was motivated to do even more. Through campus-wide cooperation, Iodice was able to temporarily move classes to free up entire buildings, allowing him to power down those empty buildings and save significantly in energy costs.

## Getting Rewarded

Robert Iodice foresees the impact the Pennsylvania rate cap removal will have on his budget and sees demand response as a crucial strategy to managing his energy costs. Using FlexConnect, he immediately recognizes the influence his actions will have on the bottom line. Iodice can focus on cause and effect to increase his return by using energy at less expensive times.

Iodice uses his demand response savings and earnings to install building automation systems, motion lighting and occupancy sensors in more buildings; as an added benefit to community awareness, some buildings will qualify for Energy Star™ status. Because of the available, expert guidance from EnergyConnect, Robert Iodice utilizes demand response to 'walk the walk and talk the talk', improve the bottom line and encourage community participation. Cabrini College has been able to not only implement demand response seamlessly into its infrastructure, but with the backing of people who see its benefits every day, the campus is proof of how successful smart energy management programs can engage the minds of today and tomorrow.

EnergyConnect helps organizations manage their energy costs by providing a range of industry leading demand response technologies and strategies.

EnergyConnect's web-based automated platform makes it simple for companies to participate in voluntary energy curtailment and profit from opportunities in the wholesale electricity market.

Learn about EnergyConnect's wide range of demand response services and how participating organizations are creating additional income and helping create a smarter, more sustainable electricity grid for all of us.

## EnergyConnect Services

**FlexConnect™** Voluntarily cut back electricity use in response to daily and hourly price signals and get paid a premium for the actual energy reduced.

**EventConnect™** In case of a power grid emergency, temporarily reduce a portion of electricity load a few times a year when called and receive substantial payments even if not called.

## For More Information on How to Get EnergyConnected—

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