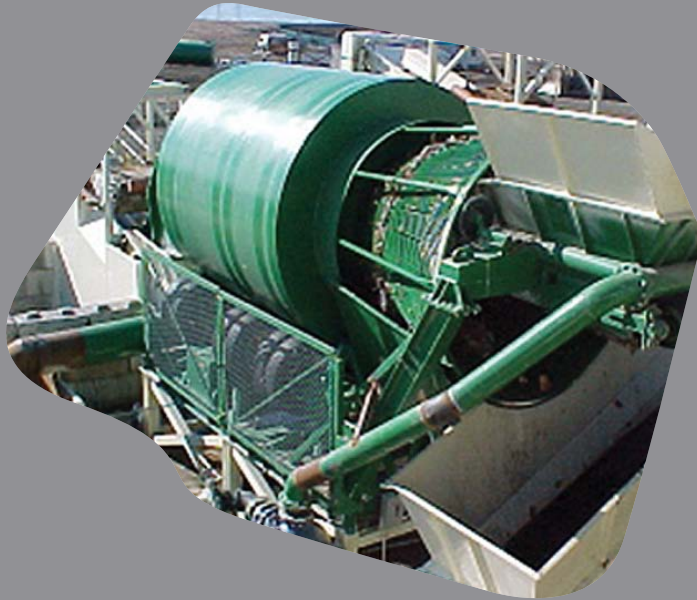


Zanker Road Resource Management

San Jose, California



Elective curtailment strategy helps minimize cost of power and reduce greenhouse gas emissions

Zanker Road Resource Management Ltd, in San Jose, California, operates two of the largest construction and demolition debris recycling operations in the state and are nationally recognized model recycling facilities.

The opportunity

The first facility, Zanker Road Landfill, opened in 1985, while the newer facility, Zanker Materials Processing Facility, opened in 1998. These facilities recycle concrete rubble, wood waste, yard waste, clean and mixed demolition debris, cardboard, gypsum, metals and bulky items. These aggressive efforts have resulted in an average recycling rate of over 83 percent. The machinery required to process over 2,500 tons of material taken in from across the San Francisco Bay area each day has resulted in significant energy usage.

The solution

When introduced to EnergyConnect's Share the Power demand response, Manager Michael Gross quickly recognized that volunteering to curtail electricity usage during times of peak demand could be easily incorporated into their operations. The reduction in power use at individual facilities helps minimize the cost of power, can alleviate the risk of rolling blackouts and limits the need to ramp up additional greenhouse gas emitting power plants.

“Our entire operation is dedicated to recycling and energy conservation. Implementing demand response into our operations has been seamless. Participating in EnergyConnect’s services is perfect for this industry and very easy. A win-win for the environment and our bottom line.”

MICHAEL GROSS
MANAGER



Getting started simply required that they commit in advance to reduce their electricity load when called upon. Determining how much electricity they could shed during energy emergencies was simple. Concrete crushing and demolition processing along with the other recycling processes at the facilities are energy-intensive activities. Furthermore, the machinery itself requires a high degree of maintenance. They determined that anytime a call came in requesting the decrease of their electricity consumption to ease the strain on the transmission grid, they could simply shut down all of the machinery and use the opportunity to perform maintenance. By participating in EventConnect™ Share the Power demand response, they continue to make money and employees keep working even during a shut down.

Getting EnergyConnected

Because the facilities operate six days a week to meet the demands of a diverse construction industry, it has the flexibility to shift operations to times when wholesale energy prices are lower. This enables Gross to respond to energy curtailment events,

when the electricity grid is experiencing peak demand or temporary reliability issues. At these times, a call or email comes in from EnergyConnect that a curtailment event will occur and Gross simply forwards it to the site supervisors who schedule to take all of the machinery down and perform maintenance.

Getting rewarded

Participating in EnergyConnect’s demand response offerings complements their larger energy and environmental objectives. In addition to leveraging the electricity load on all of the production machinery, they will soon be installing a group of new wood grinders and screens and switching these processing lines from bio-diesel to electricity. This will dramatically increase the available load during future curtailment events. With additional revenue earned, more facility conversions are funded sooner.

For more information,
call 866-488-7642 or visit
www.johnsoncontrols.com/energyconnect

At a glance:

- Available load shed:
Approximately 750 kW
- Power: Equivalent capacity to power 500 homes
- Earnings: Go directly to the bottom line