

Capture LEED Points By Installing Encycle's Swarm Logic™ Solution



 **ENCYCLE**
SMARTER ENERGY

Encycle's solution allows facility owners to capture LEED points through the United States Green Building Council's ("USGBC") 4.0 rating system. LEED certification recognizes the efforts of facility operators who work towards "greening" their facilities while simultaneously improving building performance and reducing their operating costs.

Under LEED 4.0, the USGBC acknowledges load reductions achieved through demand response ("DR") programs. Encycle's customers are able to capture as many as three LEED points through the new DR credit, even in areas where demand response programs are not yet available. An additional two LEED points can be earned through the Advanced Energy Metering program.

Our patented Swarm Logic controllers are designed to distribute a DR event's

curtailment across loads and across time as smoothly as possible, providing substantially better occupant comfort compared to conventional temperature setback or load limiting techniques. Swarm Logic also provides consumption reduction and peak demand reduction benefits well beyond DR events, generating energy efficiency savings for customers year-round. This functionality directly supports the LEED initiative and can be applied to your buildings.



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Money and resources saved.
Savvy business. Happy earth.



DEMAND RESPONSE

PROGRAM AVAILABLE (3 POINTS)

Participate in an existing DR program and complete the following activities.

- Have in place a system with the capability for real-time, fully automated DR management based on external initiation by a DR program provider. Semi-automated DR may be utilized in practice.
- Enroll for a minimum of one year in a DR program with a qualified DR program provider, with the intention of multi-year renewal, specifying a DR event reduction of at least 10% of the annual peak electricity demand. Peak demand is based on electric utility bills.
- Develop a comprehensive plan for meeting the contractual commitment during a DR event.
- Include the DR processes in the current facilities requirements and operations and maintenance plan.
- Initiate at least one full test of the DR plan.

PROGRAM NOT AVAILABLE (1 POINT)

Have infrastructure in place to take advantage of future DR programs or dynamic, real-time pricing programs and complete the following activities.

- Develop a comprehensive plan to shed at least 10% of the annual peak electricity demand. Peak demand is based on electric utility bills.
- Include the DR processes in the current facilities requirements and operations and maintenance plan.
- Initiate at least one full test of the DR plan.
- Contact local utility representatives to discuss participation in future DR programs.

METERING

EAC5: ADVANCED ENERGY METERING (2 POINTS)

Install advanced energy metering for the following:

- All whole-building energy sources used by the building
- Major end uses that represent 20% or more of the total annual consumption of the building minus plug load use.

All LEED credit information source of USGBC LEED credit library: <http://new.usgbc.org/node/2613007?return=/credits/existing-buildings/v4-draft>

The advanced energy metering must have the following characteristics:

- Meters must be permanently installed, record at intervals of one hour or less, and transmit data to a remote location.
- Electricity meters must record both consumption and demand. Whole-building electricity meters should record the power factor, if appropriate,
- The data collection system must use a local area network, building automation system, wireless network, or comparable communication infrastructure.
- The system must be capable of storing all meter data for at least 36 months.
- The data must be remotely accessible.
- All meters in the system must be capable of reporting hourly, daily, monthly, and annual energy use.



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RESULTS POWERED BY ENCYCLE'S PATENTED



SWARM LOGIC