

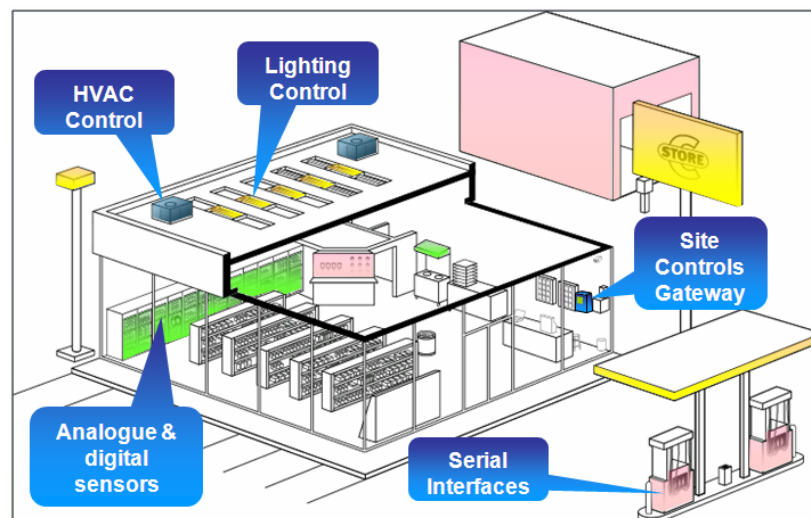
# Site Controls' Intelligent Load Management

## 1. Company Description

Site Controls provides enterprise-wide energy management, operational intelligence, and grid efficiency solutions to commercial customers and power suppliers. The company's solutions incorporate energy efficiency, corporate social responsibility, comfort and controls, operational intelligence, and demand response services. Site Controls' proven record of delivering value is demonstrated at over 2,000 client sites representing hundreds of megawatts of electrical load under management.

## 2. Program Description

The enabling technology platform that provides the full enterprise energy management solution also includes an aggregation engine for Intelligent Load Management (ILM) across a broad portfolio of sites. The objective of Site Controls' ILM program is to provide a two-way, verifiable, closed loop control resource for the grid that can be called upon in less than 5 minutes.



At each of our contracted customer sites, Site Controls installs our patented gateway panel, along with digital interfaces and sensors, allowing us to monitor and control the electrical loads of the facilities above-site. These controls allow Site Controls to implement load management strategies when called on to do so by the ISO, including increasing setpoints on HVAC units, cycling HVACs units, turning off a pre-determined portion of the site's non-essential lighting, and disabling certain motor loads. In addition to our controls devices, Site Controls installs an interval meter (Veris Industries, H8035/8036 Series, Modbus RTU,  $\pm 1\%$  accuracy) at every site

we control. Communications with the sites are two-way, verifiable, and closed loop, with Site Controls collecting real-time energy data every two and a half minutes during a Demand Response event and every fifteen minutes at all other times.

In addition to our *Site Command*<sup>TM</sup> platform, Site Controls also employs our proprietary *Power Command*<sup>TM</sup> Aggregator tool to perform Automated Demand Response. When signaled by NYISO, Site Controls' *Power Command*<sup>TM</sup> Aggregator will automatically initiate a Demand Response event. The Aggregator immediately begins to shed load from our customers' sites, without any interaction required with the customers. In order to meet our required load shed, the Aggregator program conducts a real-time, site-to-site energy auction every two and a half minutes for the duration of the event, constantly looking for and delivering the kW of least-consequence from our customers and ensuring that we meet our targeted load drop amount. This real-time auction happens in a fully automated fashion. In addition, all of the customers are automatically notified that an event has been initiated, and we provide continuous updates to them during the event as necessary.

### **3. Implementation Plan**

The ILM program is administered by the Energy Services division of Site Controls, with input and assistance from the Site Controls sales, engineering, production, and service departments. Site Controls also works with a number of regional, third-party, electrical contractors that have been company certified for the installation of Site Controls' EMS platform.

Site Controls has an existing installed customer base of over 2,000 sites nationwide, with almost 100 existing sites currently installed in the state of New York. Full deployment for only our existing customers will increase our total site count to over 25,000. Site Controls existing customer base is comprised of mid-sized commercial chain stores, including "big box" retail stores, convenience stores, quick-serve restaurants, sit-down restaurants, and fitness clubs. The average peak load of Site Controls' customers ranges from 50 to 350 kW, with 15% to 25% of that load being dispatchable for a four hour Demand Response event. (A much higher percentage is dispatchable for shorter duration events.)

### **4. Monitoring & Verification**

The measurement and verification procedures for Site Controls sites enrolled in the Small Customer Aggregation will be similar to the procedures used for measurement and verification of existing Special Case Resources. Site Controls will obtain interval meter data from the currently installed interval meters, and will employ the use of a PSC-certified MDSP, third party contractor to verify and submit that meter data to NYISO. The individual meter data will simply be added together to determine the Aggregation's performance. However, due to the automated aggregation processes used by Site Controls' Aggregator platform, it is important that these aggregated sites receive a single performance factor and be judged as a single unit.