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Siemens Intelligent Load Management™ (ILM)

ILM adds flexibility to your business operations while helping you to benefit from Demand Response Programs.

Answers for infrastructure.

Specifically designed for commercial facilities, our Intelligent Load Management (ILM) is a turnkey, software-based solution that automates your predefined business rules, enabling your facilities to maximize demand response program incentives.

Demand Response Made Easy

There's nothing better than having your facility help pay the bills. It's easier than you think if you participate in demand response programs with your local utility and have Siemens Intelligent Load Management software.

Demand response programs offer a new and interesting option to manage energy usage. Here's how it works. Utilities across the country offer demand response programs to relieve stress on their electricity infrastructure. To encourage you to participate, they will pay you if you can reduce energy use during peak events, when demand on the electrical infrastructure is the greatest.

However, there are some challenges. If you participate in a traditional demand response program, you or your staff will be required to invest a significant amount of time in working with your utility and managing consumption during peak periods. In addition, you will need to develop and implement detailed plans to avoid business disruptions and occupant discomfort. Siemens offers you a better option.



What is Intelligent Load Management (ILM)?

Siemens has developed a next generation light-touch aggregation service called Intelligent Load Management™ (ILM) which overcomes the shortcomings of traditional demand response. By leveraging the power of your Building Automation System (BAS) and our ILM software, Siemens customers can participate in demand response programs with minimal impact on resources. We help you create an automated demand response program that is tailored to fit within your predefined facility and business rules. ILM allows you to receive cash payments for participation in a demand response program, without impacting your business performance.

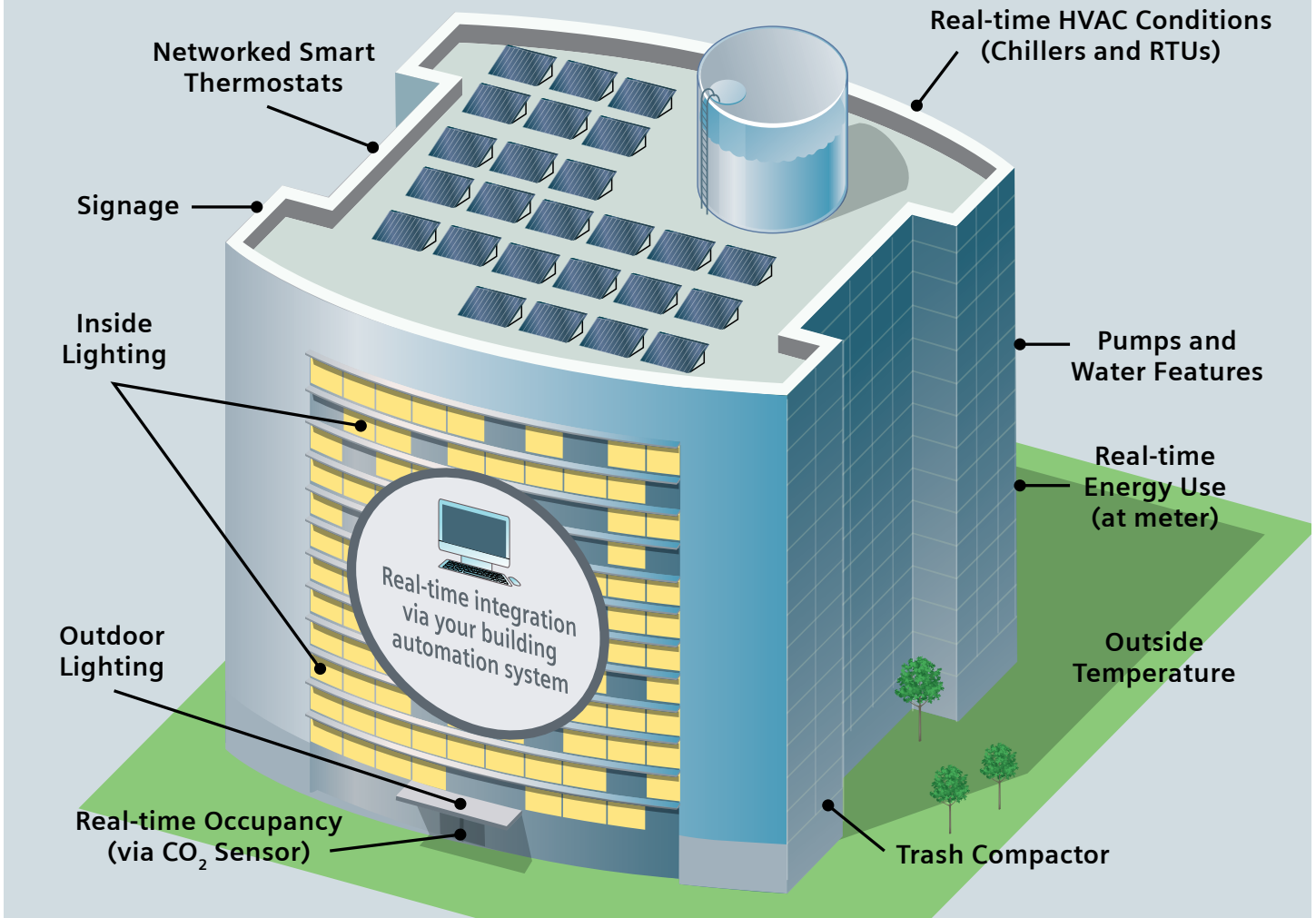
Comparison of ILM to Traditional Demand Response

	Manual Demand Response	Semi-Automated Demand Response	Fully Automated Demand Response	Siemens Intelligent Load Management
Description	<ul style="list-style-type: none"> Labor-intensive Manually turn off or change set points on each asset node 	<ul style="list-style-type: none"> Pre-programmed response is initiated by a person Person uses centralized control system 	<ul style="list-style-type: none"> No human interaction External communication signal Overrides of nodes or systems are possible Functions as an "on" or "off" switch 	<ul style="list-style-type: none"> Logic that sits at a layer above Fully Automated Demand Response system Override of node or systems are possible Continuous management of load
Reliability of Capacity	<ul style="list-style-type: none"> Unreliable Process dependent on human interaction and ability to make changes at a given point in time 	<ul style="list-style-type: none"> Unreliable Process dependent on human interaction and ability to make changes at a given point in time 	<ul style="list-style-type: none"> Reliability questionable Overriding nodes hard to project / plan 	<ul style="list-style-type: none"> Verifiable Diversified, redundant and managed
Speed	<ul style="list-style-type: none"> Very slow 	<ul style="list-style-type: none"> Possibly slow 	<ul style="list-style-type: none"> Fast 	<ul style="list-style-type: none"> Fast, 2 minutes or less
Pricing Efficiency	<ul style="list-style-type: none"> Poor, capacity not reliable 	<ul style="list-style-type: none"> Poor, capacity not reliable 	<ul style="list-style-type: none"> Moderate, reliability is questionable or is discounted due to possible overrides 	<ul style="list-style-type: none"> Efficient, loads are managed and reliable which reduces the discounting of capacity or price

ILM at Work — Better Returns, Minimal Risk

Participating in a demand response program is easy when it's done with Siemens. Our professionals simply install our ILM software that interacts with your BAS to manage demand response events. We work with your facility staff to define inputs and business rules for your facility, such as business hours and desired temperature/lighting levels for various peak emergency scenarios, so that there are no surprises when a demand response event occurs. We also interface directly with your utility, handling technical and business interactions with your program participation.

When a demand response event occurs, our ILM software receives a "load curtailment" request from your energy provider. In response, ILM reduces peak energy usage as demand response strategies are executed following the parameters you define, reducing the lowest consequence loads first. Using ILM, you have an installed strategy for responding to peak energy emergencies. It's a strategy that can generate a new source of cash, maintains facility comfort, and helps keep electricity flowing.



Benefit from Demand Response Today

Siemens is a proven leader in helping customers participate successfully in demand response programs. Through our ILM software, you will gain:

- New source for incentives — receive cash payments for participation
- Intelligent automation — utilizes pre-defined business rules with no day-to-day oversight required from your facilities team
- Reduced energy expenses — especially during peak rate periods
- Earn LEED credit — automated demand response earns additional points toward the LEED demand response credit
- Improved Corporate Social Responsibility (CSR) — deepened stakeholder and community relations
- Carbon negative power generation — reduces CO₂ emissions



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