

# Micro Thermo Technologies Energy Services



- Enable energy cost reductions through participation in a variety of energy rebate programs
- Compare energy use profiles of all locations across an enterprise to identify where energy reduction efforts should be focused
- Gain access to additional energy cost reductions with demand-response generator management

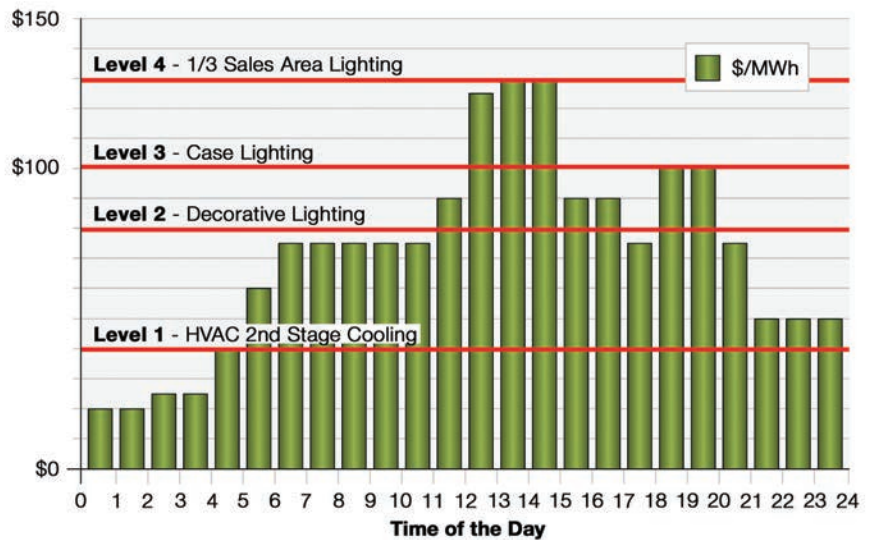
## Monitor, Manage and Save

The Energy Services software and hardware provides energy monitoring, demand response load shedding and real-time pricing services. This solution enables supermarket operators to obtain the latest information about store energy consumption in real-time, from virtually anywhere in the world - and then use that data to make fast, smart decisions to reduce their energy costs.

## Partner With Your Utility

The Micro Thermo Energy Manager works directly with advanced Lonworks® and Modbus® enabled energy meters, and can even accept a pulse output from traditional utility metering systems. These can supplement or even replace the need for large numbers of additional current transformers. In addition, allowing your utility to control local generator activation in response to demand-response triggers provides additional opportunities for savings on energy costs.

## RTP Load Shedding



## Product Benefits:

- Real Time Pricing (RTP) - manage load shedding based on real time pricing from your utility
- Demand-Response - provide utility control of local generators to supplement local energy needs and qualify for additional energy cost savings
- Peak Shaving - remotely change set-points to enable local peak shaving strategies
- Energy Profiles - create unique energy profiles for each site and location
- Internet Access - access data and manage activity all via the internet

## Contact Information:

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ENGINEERING YOUR SUCCESS.

# How It Works:

## See all your locations and their reporting status in one place

- Security is a main priority
- Solutions for access comply with corporate IT requirements
- Energy Manager delivers data directly to a web-based database allowing for access anywhere you have an internet connection
- The Energy Manager can also integrate seamlessly into an existing Alliance™ network

Corp#	Site Name	Region	Supplier Region	Square Feet	Mix kWh Setpoint	Max Level	Shed Level	Last Update
2346	1000 W. El Norte Escondido	CA, SDG&E	SDG&E Bundled	50,000	1	8	None	00:01:11
4018	10016 Scripps Ranch, San Diego	CA, SDG&E	San Diego Gas & Electric	10,000	1	8	None	00:01:06
2134	10460 Claremont Mesa, San Diego	CA, SDG&E	SDG&E Bundled	10,000	1	8	None	00:00:16
2107	10675 Scripps Poway Pkwy San Diego	CA, SDG&E	San Diego Gas & Electric	10,000	1	8	None	00:00:02
1138	1100 EL CAMINO, Redwood	CA, PG&E	PG&E DA	10,000	1	8	None	00:01:56
2212	11030 JEFFERSON, CULVER CITY	CA, SCE		10,000	1	8	None	None
3075	1120 FAR OAKS PASADENA	CA, SCE		10,000	1	8	None	00:00:40
2285	11322 LOS ALAMITOS LOSALMITS	CA, SCE	SDG&E Bundled	10,000	1	8	None	00:01:31
2041	11861 VALLEY VIEW GROUNDROV	CA, SCE		10,000	1	8	None	00:00:37
2079	11986 Bernardo Plaza Dr San Diego	CA, SDG&E	San Diego Gas & Electric	10,000	1	8	None	>24:00:00
3044	1201 Avenida El Cam	CA, SDG&E	San Diego Gas & Electric	10,000	1	8	None	00:00:30
X-2228	1213 FAR OAKS, SOUTH PASADENA	CA, SCE		10,000	1	8	None	>24:00:00
1625	1260 W REDONDO BEACH GARDENA	CA, SCE		10,000	1	8	None	None
2200	130 W. FOOTHILL MONROVIA	CA, SCE	SCE Bundled	10,000	1	8	None	00:01:39
1476	1300 WEST SAN CARLOS, SAN JOSE	CA, PG&E	PG&E DA	10,000	1	8	None	00:00:23
X-3018	1304 SOUTH WINCHESTER San Jose	CA, PG&E	PG&E Bundled	10,000	1	8	None	>24:00:00

## Visual data presentation and prioritization makes it fast and easy to identify problems

### With MT Alliance System

Energy management capabilities are increased by allowing the Energy Manager to initiate set point changes, intelligent capacity management, floating pressures and temperatures and other capabilities enabled by a full MT Alliance system

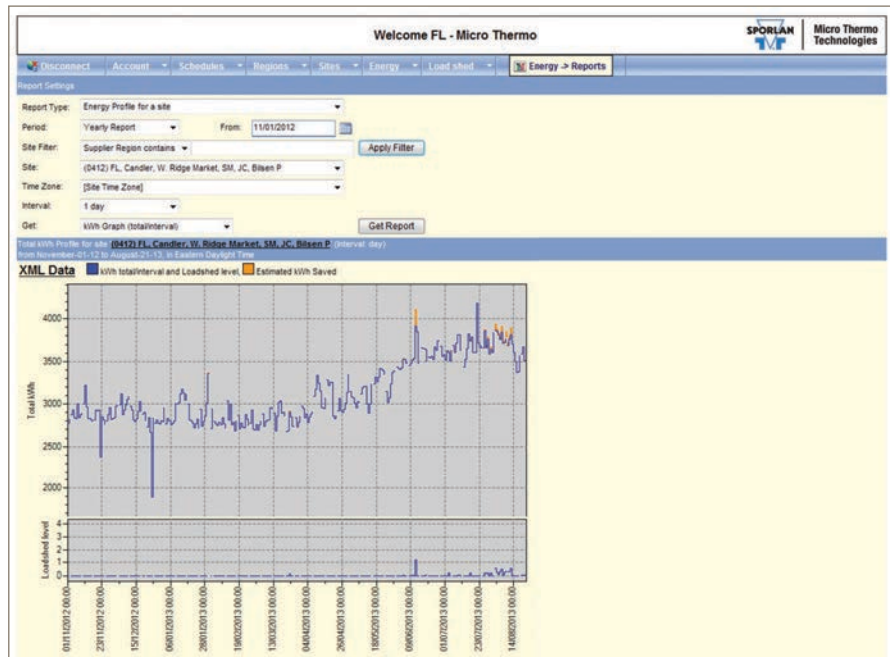
### Without MT Alliance System

The Energy Manager node can still initiate load shedding directly utilizing 4 relays integrated into the node

Corp#	Site Name	Region	kWh for Period	Peak kW	Second kWh	Site sq.ft	kWh/ha.ft	%On Line	Found sites
2293	8011 University La Mesa	CA, SDG&E	15,981	744	0	10,000	1.598	67.7	
2524	2101 W. IMPERIAL HWY LA	CA, SCE	8,400	448	0	10,000	0.840	66.1	
2381	535 N. MCKINLEY STREET,	CA, SCE	8,281	402	0	10,000	0.828	67.7	
2333	13439 Camino El Caim	CA, SDG&E	8,138	390	0	10,000	0.814	67.7	
1252	4495 FIRST ST. LIVERMORE	CA, PG&E	8,012	374	0	10,000	0.801	67.7	
2641	815 CANYON DEL REY Monterey	CA, PG&E	7,990	391	0	10,000	0.799	66.1	
1281	405 SOUTH HIGHWAY 65 Lincoln	CA, PG&E	7,731	336	0	10,000	0.773	67.7	
2102	10675 Scripps Poway Pkwy San	CA, SDG&E	7,632	360	0	10,000	0.763	67.7	
2058	6170 HAMNER MIRALOMA	CA, SCE	7,601	381	0	10,000	0.760	68.1	
862	2695 SAN RAMONE VALLE, SAN	CA, PG&E	7,551	362	0	10,000	0.755	67.7	
2118	3550 Murphy Canyon San Diego	CA, SDG&E	7,499	340	0	10,000	0.750	67.7	
2116	620 Denney San Diego	CA, SDG&E	7,495	342	0	10,000	0.749	67.7	

## See real-time graphs of performance data for any location and for any time period

- Years of data remotely accessible from anywhere
- Uncover trends and highlight potential issues earlier than previously possible
- This type of data management is essential if an energy management plan is to be successful



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Modbus is a registered trademark of Schneider Electric USA, Inc.

Alliance is a trademark of Parker Hannifin Inc.