

## ENERGY MANAGEMENT & CONTROL (EMC) 3.0 ENTERPRISE EDITION

**Cyber Switching's Energy Management & Control (EMC) web application software provides an intuitive user interface to simplify effective energy management and streamline measurement and verification activities.**

Providing a feature-rich user interface, EMC analyzes and stores energy data from all connected devices in real time to provide end users with accurate, easy-to-understand information for informed decision making. EMC is ideal for larger facilities or campuses, enabling facility managers to tailor the performance of each connected device as much or as little as necessary. Capabilities include:

- Energy code compliance, including California Title 24-2013
- Identify cost saving measures that can lead to greater profitability
- Discover energy inefficiencies, promote awareness, track performance, manage and control resource consumption and reduce environmental impacts
- Establish baselines, budgets and allocation of energy use & costs within an enterprise
- Develop responsible environmental goals and conservation measures
- Adopt best-business practices for efficient energy use
- Track and trend consumption and site performance versus goals
- Highlight maintenance issues - identify sites and equipment that need immediate attention
- Trend, compare and validate utility bills
- Provide outstanding communication and support enabling operations and management personnel to have the most advanced, intuitive energy management.



### SIMPLIFYING DAILY MANAGEMENT

Energy management programs can span a host of activities. Daily maintenance tasks might include reviews of load profiles and energy data for the past day or week, reviewing upcoming program objectives such as scheduled maintenance outages or demand response events, even creating and reviewing historical usage comparisons to evaluate ongoing consumption trends. Other activities might occur less frequently, such as quarterly program report generation for senior leadership or reviewing results of energy efficiency programs with trending reports.

With the easy-to-use EMC dashboard, busy facility professionals can log in from any location at any time to quickly obtain the energy data they need. Access control enables administrators to establish unique access and user permissions for each folder, function, and device for ultimate flexibility.

Features such as the Energy Allocation module (see back page), part of the Cyber Switching software suite, provide robust capabilities for accurately recording and allocating departmental or business unit energy costs.



The screenshot shows an 'Invoice' for the month of September. It includes billing details such as 'Billing Period: September 1, 2014 to September 30, 2014' and 'Invoice # 1'. A table below lists energy usage for different categories:

Category	Quantity	Rate Used	Price
1. General Office (100)	100	1.000	0.017
2. Plant (10)	10	1.000	0.017
3. Other (10)	10	1.000	0.017
<b>Total</b>	<b>120</b>	<b>3.000</b>	<b>0.051</b>

The Energy Allocation module offers the ability to easily monitor department energy usage and allocate energy costs accordingly.

FEATURE	TECHNICAL SPECIFICATION
<b>Administrative Management:</b>	Device Property Remote voltage Users Energy Allocation Task scheduler
<b>Reporting:</b>	Usage, Trending, Demand, Cost & Load for: Real-time Weekly Annual Custom Reports Daily Monthly Comparison
<b>Security:</b>	Secure SSL (HTTPS) Web-based interface User & User Group Access Control List (ACL) Device & Device Group Access Control List (ACL)
<b>Data Collection:</b>	Real-time energy data in user-selectable 1-, 5- or 15- minute intervals
<b>Authentication:</b>	Active Directory (LDAP) Support
<b>Rate information:</b>	Advanced configurable rate table with multiple rate table configurations
<b>Logging:</b>	User activity logs, event logs, alert logs
<b>Alerts:</b>	Real-time alarm monitoring & notification system
<b>Virtual Devices:</b>	Virtual device capability, allowing users to categorize outlets based on common or intended use, rather than physical location.
<b>Storage:</b>	Stores real-time energy data in local data storage
<b>Support:</b>	One year technical support and software upgrades

## SYSTEM REQUIREMENTS

<b>Server &amp; Operating System:</b>	Linux OS	MySQL Database Server
<b>User Interface:</b>	Web browser (IE8.0 or higher)	
<b>Software:</b>	Energy Management & Control (EMC)	

## ORDERING INFORMATION

PRODUCT NO.	PRODUCT DESCRIPTION
EMC3ED0500	EMC 3.0 Enterprise Edition for 50 IP-addressable devices & one year support & software upgrades
EMC3ED0500-R	EMC 3.0 Enterprise Edition Renewal additional 1-year
EMC3EDA500	EMC 3.0 Enterprise Edition for additional 50 IP-addressable devices & one year support & software upgrades.
EMC3EDA500-R	EMC 3.0 Enterprise Edition for additional 50 IP-addressable devices. Renewal additional 1 year
EMC3ED00FU	EMC 3.0 Enterprise Edition - Energy Allocation Module