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We invite you to explore the www.energyvortex.com website for industry news, white papers, downloadable books, the career center, upcoming events and so much more.

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DENT INSTRUMENTS

GoodSteward
SOFTWARE THAT SAVES

Ingersoll Rand
Energy Systems

POWERSMITHS

SIERRA INSTRUMENTS, INC.
Advanced AMR Technologies sends wireless, real-time interval data to the Internet covering wide geographic areas at very low cost. Put your customers load on the Internet in real-time that serves wide areas measured in miles. Internet data is used for advanced AMR, Time-of-Use, Measurement & Verification, peak load management, demand response, aggregation, power quality, sub-metering, and conservation.

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Website: http://www.abraxasenergy.com

Metrix 4 energy software provides a valuable tool for monitoring energy usage and verifying operating cost savings from energy conservation measures. Metrix establishes baseline and target usage patterns, which can be used to gauge building performance. Metrix software uses specific algorithms to test for correlation between energy usage and weather data or other variables that you can define (such as occupancy or production).
acs (Afterhours Control System) is the single, most cost-effective investment available for commercial office buildings today. In one, all inclusive package, acs provides remote tenant access, complete invoicing, and total EMS integration while generating substantial income for the building owner. acs offers tenants a simple, intuitive telephone interface for scheduling afterhours air conditioning and/or lighting. acs further provides comprehensive tenant services such as...user account administration, financial reporting and immediate account activity notifications via the Internet. acs seamlessly interacts with a building’s control system without requiring any additional hardware. acs is flexible enough to control a single building, yet powerful enough to control a nationwide corporate portfolio. acs also reads, graphs and tabulates tenant metering, provides for flexible billing rates and lease hours, synchronizes billable holidays, as well as prorates billing for common equipment use. Additionally, acs optimizes building run-times, consolidates invoices for larger scale tenants and generates all invoices with a single command.

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COMPANY PRODUCT’S PAGE

acs (Afterhours Control System) is the single, most cost-effective investment available for commercial office buildings today. In one, all inclusive package, acs provides remote tenant access, complete invoicing, and total EMS integration while generating substantial income for the building owner. acs offers tenants a simple, intuitive telephone interface for scheduling afterhours air conditioning and/or lighting. acs further provides comprehensive tenant services such as...user account administration, financial reporting and immediate account activity notifications via the Internet. acs seamlessly interacts with a building’s control system without requiring any additional hardware. acs is flexible enough to control a single building, yet powerful enough to control a nationwide corporate portfolio. acs also reads, graphs and tabulates tenant metering, provides for flexible billing rates and lease hours, synchronizes billable holidays, as well as prorates billing for common equipment use.
Advanced AMR Technologies sends wireless, real-time interval data to the Internet covering wide geographic areas at very low cost. Put your customers load on the Internet in real-time that serves wide areas measured in miles. Internet data is used for advanced AMR, Time-of-Use, Measurement & Verification, peak load management, demand response, aggregation, power quality, sub-metering, and conservation.

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Website: http://advancedamr.com

Advanced AMR Technologies sends wireless, real-time interval data to the Internet covering wide geographic areas at very low cost. Put your customers load on the Internet in real-time that serves wide areas measured in miles. Internet data is used for advanced AMR, Time-of-Use, Measurement & Verification, peak load management, demand response, aggregation, power quality, sub-metering, and conservation. Start saving money today!
ALANOD Aluminium-Veredlung GmbH & Co.KG is world leader in producing anodized and enhanced aluminum. ALANOD sells approx. 30,000 to/year of surface refined aluminum worldwide. With MIRO-SILVER® - ALANOD’s most recent state-of-the-art innovation – now the next generation of high reflective aluminum is presented. For the first time a total-reflection of 98% is achieved.

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     Flushing, NY 11358
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Email: bloch@alanod.com
Website: http://www.alanod.com

ALANOD is one of the worlds leading companies producing aluminium refinements. It manufactures anodized aluminium strip-materials with many different surfaces and mechanical properties, available in coils or sheets. As a result of intensive research and development 1994 ALANOD placed its innovative material, MIRO, on the market. MIRO provides a total light reflection of up to 95% without any spectral decomposition. Like standard anodized aluminium it is available in different surface qualities and with additional coatings on the back. This targets were achieved by a world wide unique productionline, using a PVD-process applying super reflective and reflection-enhancing layers to anodized aluminium-strip. With this technology the first time the total reflection (DIN 5036-3) of anodized aluminium was increased by 10% from 87% up to 95%; diffuse reflection was reduced on specular material and iridescence was eliminated. MIRO-surfaces have an increased lamp efficiency up to 20%. Louvers and reflectors made of this material appear deep black, giving very low indirect luminance at the louver surface. All this properties are making MIRO-qualities a perfect material for luminaries in VDT offices and control rooms especially in combination with the new T5-lamp.
Founded in 1933, Hess Corporation is a Fortune™ 100 company with assets exceeding $17 billion. As a leading energy marketer on the East Coast, we provide natural gas, fuel oil, and electricity to over 20,000 commercial and industrial customers in 16 states. Building on a history of outstanding customer service, Hess Energy Marketing has established a reputation for providing trusted expertise and reliability. Energy Marketing's growth has been driven by a customer-focused strategy built around consistent operational excellence. With a significant presence in natural gas, fuel oil and electricity, Hess is uniquely positioned to meet the energy requirements of all its customers. A wide range of product offerings supports Hess' commitment to meet customers' specific energy needs. Hess' energy marketing business is supported by the largest terminal network on the East Coast, with 22 terminals and 28 million barrels of storage capacity. Strategically located refining operations ensure reliable, competitive supply capabilities. Visit our website www.hessenergy.com or contact us 800.HESS.USA (800.437.7872) to learn more about becoming a Hess customer.

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Address: One Hess Plaza  
Woodbridge, NJ 07095  
Phone: 1.800.HESS.USA (800.4377.7872)  
Website: http://www.hessenergy.com

Hess has a significant marketing presence in all three major energy commodities: fuel oil, natural gas and electricity. Hess is a leading supplier of energy products to commercial and industrial markets along the East Coast, providing 'one-stop shopping' to customers with reliable supply, as well as flexibility to adjust to today's fast moving fuel markets.

**Natural Gas** - the leading gas marketer in the Eastern United States  
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**Electricity** - attractive products for New York, New Jersey, Pennsylvania and Maryland customers  
**Dual Fuel** - capture value from your fuel switching capability With today's volatile energy markets, customers turn to Hess for protection from high energy prices. Hess utilizes its market expertise and leading position in natural gas, fuel oil, and electricity to create products that address the full spectrum of desired market participation.
American Energy provides independent, comprehensive energy management services designed to help clients reduce their overall energy costs. Our knowledge of energy efficiencies, regulatory issues, market changes and procurement options enables us to develop custom energy solutions. We have engineers and industry partners positioned around the country, which gives us the flexibility to implement solutions wherever our clients are located.

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Website: http://www.americanenergy.com

American Energy is an independent energy management services company providing unbiased advice and recommendations to our clients. We focus on the energy needs of our client and the relationship to their business issues.

Areas we address include: Risk management, Consumption analysis, Procurement options, Tariff, regulatory, and tax analysis, Facility energy efficiency recommendations,

We execute and implement the solutions to make sure projects are on time and per specification.
American DG Energy, the leading On-Site Utility, offers customers a risk-free alternative to purchasing capital equipment. We own, install, and operate – at our own cost – highly efficient energy systems at our customer’s facilities. American DG Energy’s experienced team of energy system specialists takes full responsibility every step of the way. There’s no need to add new personnel or training, which translates into greater savings and building comfort for our customers. Each American DG Energy installation is tailored to the specific requirements of our customer. Services provided include: financing, site evaluation, engineering & design, regulatory & permit approvals, equipment selection, installation, start-up, fuel purchasing, maintenance & service, 24/7 equipment monitoring, and monthly customized billing with savings summary.

American DG Energy provides lower cost energy to many types of businesses. We focus on regions with the highest utility rates. Facilities utilizing larger amounts of hot water for space heating, domestic uses, laundries or heating swimming pools and spas can expect the highest cost savings. American DG Energy will perform energy cash-flow analyses for prospective facilities and generate a cost savings report and proposal detailing our guaranteed energy discount rate.

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**Website:** [http://www.americandg.com](http://www.americandg.com)

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AmericanDG, the leading On-Site Utility™, offers customers a risk-free alternative to purchasing capital equipment. AmericanDG’s experienced team of energy system specialists takes full responsibility every step of the way. There’s no need to add new personnel or training, which translates into greater savings and building comfort for our customers. Each AmericanDG installation is tailored to the specific requirements of our customer.
Amtech Lighting Services is one of the nation's largest leading lighting management companies, serving over 35,000 locations, with 26 branches and 64 satellite operations across the United States. Our Certified Consultants provide lighting management and retrofit services to a wide variety of clients, including detailed space-by-space audits. Since 1957, Amtech Lighting Services has brought a tradition of quality and innovation to the maintenance and retrofit of lighting systems and electrical signs. We continue to redefine and improve our technical expertise and management, learning from our successes and never settling for second best. Amtech Lighting Services continues to shape the lighting management industry by proactively fulfilling the needs of customers through leadership in management, investment in human resources, and the application of appropriate lighting technology. Our pursuit of the Amtech Lighting Services vision - to create customer partnerships and innovative solutions, while continually striving for improvement - is redefining the lighting industry.

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Amtech Lighting Services provides a complete range of lighting services, including:
- Survey, Design, and Installation of Lighting Retrofits
- Group Relamping and Lighting Fixture Cleaning
- Planned Lighting Management Agreements
- Electrical Sign Repairs, Outdoor Lighting Design, Installation, and Maintenance
- Electrical Rollout Projects
- Lighting retrofits, with flexible payment options

Amtech Lighting Services is committed to providing a safe working environment while servicing your lighting needs. All of our offices include aerial ladders, bucket trucks, self-propelled power lift platforms, and aluminum scaffolding to service the most difficult locations quickly and safely. In addition, many of our larger offices have cranes up to 100 feet.

Our technicians keep your costs down by carrying an extensive, complete inventory on each truck. Through proper management of the truck inventory, we are able to complete most service calls on the first trip.
Anasol Consulting provides energy engineering design, consulting and software development services. Our mission is to provide energy engineering solutions and develop software at competitive price, quality and with guaranteed results. We focus on customer needs and results through speed, accuracy and innovation. Anasol Consulting develops, markets and sells the steam system design and simulation software STEAMDOSS v1.0.

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http://www.anasolconsulting.com

STEAMDOSS V1.0 is an energy engineering application software focused on the need of users in Steam Generation and Steam User facilities. It is a tool to design, model and analyze these systems. It is designed on a system concept rather than individual components calculations and aimed at providing one stop steam software solution for all Steam and Boiler Plant applications.

SERVICES

Anasol Consulting provides Energy engineering consulting services and engineering software product development services Consulting: Our Energy engineering consulting services include Energy Audit and design solutions in Boiler, steam and water systems Software Development Services: Anasol Consulting provides engineering software application development at a very competitive price and assured quality
BUYER’S GUIDE

We pride ourselves in developing intelligent system solutions, innovative products, comprehensive services and accredited training. Armstrong International has solved virtually every imaginable problem in steam, humidification, compressed air, hot water, severe service industrial valves, heat transfer and electronic contract manufacturing services.

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Email:     tracy@armintl.com
Website:   http://www.armstrong-intl.com

COMPANY PRODUCT’S PAGE

SUPERHEAT STEAM TRAP
SH Series Bimetallic Steam Trap for superheat conditions responds automatically to changing conditions. The SH Series has the ability to handle the large start-up loads associated with superheat applications and operates at pressures to 1,500 psig. Available in carbon or stainless steel. In-line repairable.

STEAMEYE® STEAM TRAP MONITORING
SteamEye® keeps an eye on your steam traps 24/7. When this wireless steam trap monitoring system is linked with SteamStar™, Armstrong’s Web-based steam trap management software, energy costs are reduced and labor savings are achieved.

DURAMIX™ FACE AND BY-PASS HEATING COIL
The easy-to-install, easy-to-maintain Duramix™ Heating Coil controls air temperature while operating at full steam pressure.
ATAS INTERNATIONAL, INC. is one of the nation’s leading manufacturers of metal roofing, wall and ceiling panels for commercial and residential use. Roofing systems include: standing seam with concave, convex and tapering abilities and also, tile, shingle and shake facsimiles. Wall panels are available in many profiles to compliment a variety of design options: flush, smooth, horizontal or vertical with exposed or hidden fasteners. Soffits are available smooth or ventilated. Linear ceilings available boxed and curved. Profiles come in 29 standard colors with a KYNAR 500® or HYLAR 5000® finish. Materials include: aluminum, steel, copper and zinc. Custom formed accessories including: crown molding, perimeter edge trim, gutters and downspouts. Flat stock is also available. A new product, the InSpire(tm) wall system, a transpired solar collector, is used to improve indoor air quality and save on heating fuel costs. ATAS is your single source. Contact ATAS today!

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Phone: 800.468.1441  
Fax: 610.395.934  
Email: info@atas.com  
Website: http://www.atas.com

InSpire(tm) Solar Collector Wall Pre-Heats Fresh Air: ATAS International, Inc. introduces the InSpire(tm) solar wall system, a new metal wall cladding made from .032 aluminum with perforations in a heat absorbing surface. Mounted a few inches from the main wall fresh air is drawn through the perforations and directed into the building with a fan and duct system. Air space between the walls also acts as an insulator. InSpire wall is environmentally friendly, using clean, natural energy, thus lowering the need for fossil fuels. The result is improved indoor air quality, free solar heating and a reduction in HVAC costs. The investment in InSpire wall system is returned within three years via tax credits and lower heating fuel costs. For more information, contact ATAS today!
Atlantic Energy Concepts began in 1994 (as Mid Atlantic Energy and Data Concepts) with a vision to provide our customers with sustainable facility solutions that maximized energy cost savings, while significantly reducing energy consumption. Today we service the entire eastern seaboard, and beyond, and are experiencing strong strategic business expansion. Through the use of design excellence, proven technology, professional installations and guaranteed cost savings, Atlantic Energy Concepts is recognized throughout the industry as a customer-driven company which sets new standards in forward-thinking implementation of energy-efficient products...primarily lighting products. We have substantially reduced energy costs and consumption for a great many owners of commercial and industrial facilities, office buildings, as well as educational, institutional and healthcare facilities. Most of these projects were upgraded and paid for through the energy savings achieved. This helps eliminate the need for large capital expenditures to complete these energy-saving measures.

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Website: http://www.atlanticenergyconcepts.com

Atlantic Energy Concepts began in 1994 (as Mid Atlantic Energy and Data Concepts) with a vision to provide our customers with sustainable facility solutions that maximized energy cost savings, while significantly reducing energy consumption. Today we service the entire eastern seaboard, and beyond, and are experiencing strong strategic business expansion. Through the use of design excellence, proven technology, professional installations and guaranteed cost savings, Atlantic Energy Concepts is recognized throughout the industry as a customer-driven company which sets new standards in forward-thinking implementation of energy-efficient products...primarily lighting products.
Our patented technology sets new industry standards for energy efficiency, ballast losses, lumen output, lamp ballast uptime, lamp warm-up time and restrike times, longevity and maintenance costs. Huge energy savings designed to fit standard HID fixtures, with no audible hum lighter weight and generation of a perfect sine wave.

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The Aurora electronic high intensity discharge (HID) ballast is designed to ignite, drive and restrike all types of HID lamps in a variety of situations— from 320-350 W, and in 50 or 60 Hz operations, at ambient temperatures ranging from -30-65C (-22-149F) and with universal input line voltages from 208-277V AC. Our fully electronic, patented technology requires no input/output set-up, no step down or matching transformers, and meets all FCC and CISPR requirements for electromagnetic interference (EMI) emissions.
Our patented technology sets new industry standards for energy efficiency, ballast losses, lumen output, lamp ballast uptime, lamp warm-up time and restrike times, longevity and maintenance costs. Huge energy savings designed to fit standard HID fixtures, with no audible hum lighter weight and generation of a perfect sine wave.

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COMPANY PRODUCT’S PAGE

Our patented technology sets new industry standards for energy efficiency, ballast losses, lumen output, lamp ballast uptime, lamp warm-up time and restrike times, longevity and maintenance costs. Huge energy savings designed to fit standard HID fixtures, with no audible hum lighter weight and generation of a perfect sine wave.
BUYER’S GUIDE

Buyer, seller and broker of unused and used surplus electrical power equipment. We deal in circuit breakers, gensets, boilers, transformers, steam turbines, gas turbines and complete power plants. Come to Belyea to buy or sell your quality surplus electrical power equipment.

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Fax: 610-515-1263
Email: sales@belyeapower.com
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Website: http://www.buildingreports.com

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BuildingReports.com is the industry leader in web-based, real-time, wireless inspection reporting, allowing building owners and property managers to instantly access property protection and life safety compliance data with consistent, reliable and uniform reporting worldwide.
BUYER’S GUIDE

CALMAC is the globally recognized leader in the Off Peak Cooling market, which utilizes Thermal Energy Storage (TES) to air-condition buildings. Off-Peak Cooling is the process of generating and storing cooling capacity at night-time to reduce peak daytime kW demand and energy usage for hospitals, schools, commercial applications and new or retrofit buildings. Well known customers include Mercedes-Benz, IBM, American Airlines, McDonald’s, JC Penny, Underwriters Laboratories, Mary Kay, and Marriott Hotels. CALMAC has 2500 installations of its TES products in 35 countries. In addition to energy efficient air-conditioning systems, CALMAC has developed over 250 products for other companies and the U.S. government.

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COMPANY PRODUCT’S PAGE

CALMAC manufactures IceBank® Off-Peak Cooling (OPC) tanks. OPC is the process of generating and storing cooling capacity at night-time to reduce peak daytime kW demand and energy usage for hospitals, schools, commercial applications and new or retrofit buildings. Unlike traditional air conditioning systems, Off Peak Cooling reduces daytime (on-peak) electrical loads (kW) by utilizing less expensive nighttime (off-peak) electricity to generate all, or a portion of the building’s next day cooling requirement.
BUYER’S GUIDE

Powerful Solutions for Energy Independence(TM). Calpwr is a full service provider of DG and cogen solutions for municipal, institutional, commercial and industrial customers throughout the US, Canada, Latin America and the Caribbean. Headquartered in San Diego with offices in Los Angeles, Boston, Vermont & Maine, Calpwr offers a complete scope of services focused on on-site energy solutions. Calpwr's subsidiary, Bio-Spark, offers the same "end-to-end" services opportunity to bio-gas to energy projects throughout the US and Canada. Our focus and depth of resources allows us to offer the most complete DG services offering in the industry- including the ability to build, own & operate DG plants.

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COMPANY PRODUCT’S PAGE

Calpwr is a full service provider of DG, cogen & bio-gas to energy plants. Our in-house services cover the entire scope of work necessary for a complete, operating system, including - opportunity analysis, engineering, equipment selection & procurement, construction, project management, utility & environmental permitting, project finance, fuel procurement and O&M. The Calpwr team takes a product neutral approach to on-site energy applications, matching the best-in-class equipment to a customer's specific needs. We aim to deliver the most cost-effective solutions to meet the goals of our projects. Calpwr's subsidiary Bio-Spark also develops innovative systems for bio-gas to energy projects. Our proprietary, modular system designs can be applied to landfills, agro & livestock waste digestion, WWTPs, coal bed methane projects and oil & gas well flare gas sites.
Capstone Turbine is the world leader in microturbine sales, having shipped more than 3,000 systems worldwide since pioneering commercial microturbine technology in 1998. This fleet has amassed more than 9 million hours of documented operation in a wide variety of applications and settings. The company's focus is solely on microturbine power & heat systems and their applications. Capstone is the world's only USA owned and operated microturbine manufacturer.

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Microturbines are a clean onsite energy resource to solve energy issues and cut energy costs at commercial and industrial businesses and public facilities. Scalable from a few kilowatts to a few megawatts, the Capstone MicroTurbine engine has just one moving part and is the world's cleanest fossil-fueled power generator without any exhaust treatment. Primarily deployed in 80% fuel efficient (measured at end-user loads) CHP and CCHP, Capstone MicroTurbines are also used in biogas-to-power, energy conservation/load management, power certainty, oilfield/offshore flare-gas-to-power and other applications.
Carrier is the world's largest manufacturer and distributor of heating, ventilating and air conditioning (HVAC) systems. Carrier Commercial Service is your one-stop solution for building technology systems, including HVAC, boiler, and building controls repair, replacement and retrofits. From emergency repairs to design-build solutions, and simple rooftop systems to complex cogeneration systems, Carrier is your total solutions provider. Carrier is a subsidiary of United Technologies Corporation (NYSE:UTX).

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COMPANY PRODUCT’S PAGE

- Carrier is pleased to introduce our Microsteam® Turbine. This high efficiency radial outflow turbine takes energy that's normally dissipated by reducing steam pressure in a PRV and converts it into 275kW of electricity. Our vertical package design installs through a standard doorway making access into a congested mechanical room possible.

- Carrier’s Comfort-Plus Drive™ fan coil variable speed drive delivers a wide variety of energy-saving features unmatched in the industry. It can reduce energy cost per unit by as much as 45% or greater and reduce kW demand. The Comfort-Plus Drive also offers greater room comfort and lowers noise levels.

- i-Vū® is Carrier's web-based Building Control Technology. i-Vū allows users the ability to operate the building remotely and have access to scheduling, trending, and alarms through a standard web browser. i-Vū utilizes standard protocol, Native BACnet®, and it can be accessed anywhere in the world without need for any special software on the workstation. It is easily integrated with third-party mechanical and/or electrical subsystems.
Energy conservation and environmental awareness are two of the biggest issues facing business today. Is your cooling water system helping or hurting you? Is your cooling tower efficient? Chardon Laboratories is the industry leader in chemical-free water treatment. Our PowerPure system has a proven track-record of preventing scale, controlling corrosion and limiting microbiological fouling. Our customers are thrilled with the positive environmental impact at their facilities! To learn how your company can reduce water and sewer costs, contact your Chardon Laboratories PowerPure Representative today! Clean. Green. Lean. Isn’t that where you want to be?

Contact: Craig Synder  
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Website: http://www.chardonlabs.com

Chardon's PowerPure system provides chemical-free scale prevention, corrosion inhibition and microbiological mitigation for HVAC and industrial cooling water applications. Dramatically reduce your make-up water and sewer costs while optimizing your energy utilization with our proven technology. Contact your Chardon PowerPure Representative for complete details, pricing and applicability to your facility.
Chevron Energy Solutions is a vendor independent energy engineering company providing our customers comprehensive energy solutions designed to meet their specific needs. The industry's deepest engineering team, experienced financial experts and dedicated service professionals form the core of the Chevron ES team that provides engineered solutions for comfort, energy efficiency, energy use and purchase, operations and maintenance optimization strategies, equipment reliability and environmental concerns.

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Chevron Energy Solutions is a vendor independent energy services company specializing in energy savings performance contracting and design build services focused on energy efficiency. Our core professional services include energy analyses/audits, engineering design, construction management, systems commissioning, financing, staff training, performance monitoring & verification, web-based energy management and guaranteed energy savings.
The Climate Control Group, Inc. was created to market the products of various LSB Industries, Inc. subsidiaries globally. The Climate Control Group offers service and support to major national accounts and the government sector. We are structured to support these select customers and have engineering and application support that can assist in the design and selection of equipment, including design loads.

There are many advantages in working with the Climate Control Group, from energy calculations and life cycle operating costs to financing qualified projects. We are a full service marketing and consulting company and we are currently representing International Environmental, ClimateMaster, ClimaCool, ClimateCraft and Trison Construction.

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Website: http://www.climatecontrolgroup.com/
Cobasys, a leader in advanced Nickel Metal Hydride (NiMH) battery system solutions is meeting the growing demand for hybrid vehicles, for transportation markets and is now satisfying the growing need for homeland security and mission critical stationary back-up power support. Cobasys is a joint venture between Chevron Technology Ventures and Energy Conversion Devices, Inc.

Cobasys designs and manufacturers advanced energy storage system solutions and offers a true breakthrough in Uninterruptible Power Supply (UPS) protection. In addition to scalability, our NiMH battery technology offers clear advantages over the other battery technologies. NiMH batteries can provide two-to-three times the energy and the lifecycle of conventional lead-acid batteries; are low maintenance and are friendlier to the environment.

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NiGUARD solutions are designed to offer high reliability and availability for mission critical applications in a space-efficient footprint: up to 66% space and 75% weight savings! They are compatible with most UPS and can be configured to meet any voltage, power and back up time requirement. They are also scalable to evolve with your growing requirements or add to redundancy. Our unique, modular design allows for simple installation into standard 19” racks with little required maintenance. Cobasys NiGUARD BRIDGE is a far simpler and more reliable alternative to flywheel technology. The system can provide: 720 kW of power for 15 seconds while occupying less than 9 square feet and can be expanded to an unlimited degree to meet higher power requirements, longer backup times or a redundant backup solution (N+1, 2N+1, etc.). NiGUARD BRIDGE is a more cost effective solution to flywheels either from a first cost or a total cost basis. NiGUARD BRIDGE outperforms flywheel technology in all major categories: reliability, size, power and cost.
ComRent West is an electrical sales and service company specializing in load bank rentals and sales. We are the largest load bank rental company in the Western US and have the largest inventory of load banks including AC load banks from 5 to 50000 kW resistive and reactive in the 480 volt range.

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**Website:** [http://www.comrentwest.com](http://www.comrentwest.com)

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Our medium voltage units are capable of providing up to 5 Mega Watts of load at 13.8kV and 4 MW at 4,160. We also rent many DC Loads from 1 to 1000 volts including digital programmable electronic loads. Our sales division, DC Power Unlimited offers a full line of Personal Protection Equipment, Arc Flash Clothing, Insulated Tools, Battery and Load Bank sales and a selection of Battery Analyzers and Testers.
Hindsight is an expensive way to look at energy™. That’s why for 10 years, we have been pioneering real-time Internet-based remote supervision and control of distributed enterprise energy assets whether consuming and producing. Our solutions put customers in control of mission critical resources across their portfolio of facilities, wherever located, from any location, creating a secure, virtual control console to integrate systems and facilities in one application, through a standard web browser. Real-time resources like energy require real-time tools to manage. We deliver a 3600 real-time view of the enterprise operations and the markets that affect them; the knowledge and ability to reach in take action when they can maximize enterprise productivity and profitability. We bring deep domain experience in industrial and commercial controls, data acquisition, and Internet communications to deliver an end-to-end, fully managed remote supervision and control solution. Our solutions have been deployed by commercial and industrial customers, ISOs, distributed generation OEMs, and utilities across the country.

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BUYER’S GUIDE

Constellation NewEnergy (http://www.newenergy.com), a member of Constellation Energy (NYSE: CEG), is a leading competitive supplier of electricity, natural gas and energy-related services to commercial and industrial customers throughout North America. Constellation NewEnergy operates in all competitive energy markets throughout the United States and Canada, providing products that enable customers to effectively manage and control energy costs. Constellation NewEnergy’s regional expertise coupled with its national presence provides customers with customized energy products and services while leveraging the assets of one of the strongest integrated energy companies in North America. Constellation NewEnergy, based in Baltimore, serves more than 8,000 commercial and industrial customers throughout 31 states and 3 Canadian provinces representing more than 10,000 megawatts of peak load and more than 300 billion cubic feet of annual natural gas consumption.

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COMPANY PRODUCT’S PAGE

Constellation NewEnergy supplies competitively priced electricity to business customers in deregulated markets throughout North America, including more than half of the Fortune 100 companies. NewEnergy offers electricity products to insure energy cost management and delivers according to each customer's unique requirements. Our products include: Fixed Price electricity for customers who want to ensure price stability and budget certainty; MarketWatch for customers who want to select their own electricity price but have Constellation NewEnergy monitor the market for them; Block product for customers who want the benefits of both fixed price and variable pricing structures; Real Time for customers who want to actively monitor and manage their electricity usage and adjust usage levels in real time; Load Response for customers that would like to earn dollars for adjusting their operations in response to changing hourly electricity prices, a variety of Renewable energy options for those interested in conserving the environment, and WebJoules, an online energy information tool and system for our customers.
Cruise Car is an alternate transportation-solution company founded on the principal of providing quality products for you that enhance your lifestyle. It’s all about you. Cruise Car low-speed vehicles will enrich your lifestyle with ease, comfort, and fun. Cruise Car vehicles are easy to drive, and easy to maintain - plus they are gas free. If you just want to drive around your planned community, pick up the kids at the bus stop, or drop them off for their tennis lesson, then select the electric-powered Kudo Cruise Car™ - the Kudo is fun and saves money too!

Picture yourself playing a round of golf in one of the most comfortable golf vehicles manufactured - our popular solar-powered Sunray Cruise Car™. The Sunray is not only fun and relaxing, but it also conserves energy too. The Sunray batteries are recharged by the sun for your next 18 holes.

This electric-powered classic, Classic Cruise Car™, embodies an ageless durable design that blends utility with fun and economy. The Classic is a versatile tag along for your RV or yachting adventures. By land or by sea, travel with a Cruise Car… It’s all about you...

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Home of the Classic and the Solar-electric Sunray and Kudo low speed vehicles that add style and convenience to your life. Whether our electric vehicles are used as golf carts, for transportation at the marina, or to get yourself around the neighborhood or around town, Cruise Car has a variety of electric powered and solar electric vehicles to choose from that are environmentally-friendly and energy saving.
BUYER’S GUIDE

Cummins Cal Pacific is the Southern California Cummins Engine/ Cummins Power Generation / and Onsite Distributer, with 5 locations to serve you- Irvine, San Diego, Ventura, Montibello, Rialto. Offering Rental, Sales, and service of Cummins Products. Note: Please send all rental item requests marked Attention Rental Department.

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We offer a full range of sizes in rental generators from 20kw to 2000kw, with parallel capability. We offer Rental Loadbanks, Distribution panels, Transfer switches, Camloc style cables, Transformers, Fuel tanks, Delivery service, Air Compressors are also available upon request. All rental gensets are sound antinuatted. Cummins Cal Pacific is a full service Company, We offer a full line of new sale products for Power Generation, and Co Gen, Also available a Engineering Division for Co Gen& Prime Power projects We offer Generator servicing both field and shop, truck engine service, Cummins Diesel RV & Coach service, ONAN servicing.
Daikin offers intelligent air-conditioning solutions with superior energy performance and sophisticated design. These advanced systems fall under the VRV®, VRV-S® and SkyAir product names. It is a subsidiary of Daikin Holdings (USA), Inc., which is owned by the Japanese-based Daikin Industries, Ltd. For more information, call 866-4DAIKIN or visit www.daikinac.com. For more than 80 years, Daikin has been manufacturing and supplying advanced, high quality air-conditioning equipment for residential, commercial and industrial applications. Daikin is also the only company in the world dedicated to manufacturing both air-conditioning systems and refrigerants.

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COMPANY PRODUCT’S PAGE

VRV - Air Cooled VRV
Daikin’s exclusive Variable Refrigerant Volume (VRV®) air conditioning system utilizes advanced technology to provide energy efficiency and comfort levels in Heat Pump (cooling or heating) and Heat Recovery (simultaneous heating and cooling) format. Each indoor unit has an electronic expansion valve that continually controls the flow of refrigerant. So as climate, lighting and occupancy cause temperature and humidity fluctuations, the intelligent VRV inverter “variable speed” compressor using R-410A refrigerant continually adjusts to maintain the desired comfort.

VRV-WII - Water Cooled VRV
Daikin’s new Water Cooled VRV (VRV-WII) offers an energy saving alternative to traditional centralized equipment. The VRV-WII is available in 3 outdoor cabinet sizes of 5, 6 and 7 tons and using a modular approach to serve a single system up to 21 tons in 7 different capacity combinations. The system is designed to fit taller and larger applications operating with closed loop cooling tower, or dry cooler and boiler operations.
Established in 1988, DENT Instruments is a leading innovator in the field of electronic data acquisition, analysis, storage, and presentation. The company is recognized worldwide for their development and manufacture of the highest quality instruments in the field of electronic data collection. DENT Instruments designs and manufactures instruments that are application driven to meet many different commercial, utility and industrial uses including: demand & power metering, energy surveys, process control metering, sub-metering, environmental monitoring, power quality monitoring, time-of-use monitoring, measurement and verification, liquid flow metering and load profiling. In addition, DENT Instruments designs supportive software that enables the end user to manage the meter and display, retrieve and analyze the recorded data. The company sells predominately through a select network of specialized distributors throughout the world.

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COMPANY PRODUCT’S PAGE

SMARTloggers™ The SMARTlogger™ series of instruments are designed to record actual on-off status, total time of use data (TOU), and provide the percent on-time for energy consuming devices. These data loggers easily monitor, analyze and present energy consumption data for lighting systems, motor loads, dry relay, switch contacts, or virtually any electric load generating at least .25 amps.

Elitepro™ The Elitepro™ helps management develop a meaningful energy strategy by measuring critical electrical loads and data trend usage. The small robust design is fully portable and can be used anywhere—from a single piece of equipment to an entire building. It is also excellent for sub-metering. A complete solution to pinpoint electric usage and quantify consumption by measuring, storing, and analyzing Volts, Amps, Watts, Volt-Amps (VA), Volt-Amps reactive (VAR), Kilowatts (kW), Kilowatt Hours (kWh), Power Factor and harmonics; up to 144 different parameters.
With over 50 years of manufacturing gas fired infra-red heaters, Detroit Radiant Products has proven to be the largest manufacturer in the world. Our on-site testing laboratory allows us great flexibility in designing and manufacturing radiant heaters while providing heating solutions and optimal customer service. Through independent studies, gas fired infra-red heaters have been shown to save up to 50% in fuel savings over forced air systems. Radiant Tube heaters are commonly applied in commercial, industrial, agricultural and residential applications.

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Featuring increased performance and efficiencies over single-stage radiant heaters, the HL2 Series is the most advanced in offering in Detroit Radiant Products popular line of low intensity infra-red tube heaters. Innovative patented two-stage technology, highly emissive coated aluminized steel radiant tubes, high quality polished aluminum reflectors, self-diagnostic controls, 24 volt thermostat operation and much more. The HL Series has the ability to provide a minimum of 12% fuel savings over single-stage heaters. The interlocking swaged tube design, standard on all Detroit Radiant Products low intensity tube heaters, saves contractors labor time and installation costs.
BUYER’S GUIDE

Dialight is the recognized industry leader in applying light emitting diode (LED) technology to the entire spectrum of visual applications including status indication for the communications and industrial markets, signaling for transportation industry and the rapidly evolving solid state illumination market.

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COMPANY PRODUCT’S PAGE

Dialight is the recognized world leader of LED based visual indication. Our circuit board (CBI®) and panel mount components are used in diverse market sectors including communications and industrial and are available in through-hole and surface mount (SMT) technology.

Also the world leading supplier of LED-based transportation signals, our signaling related products include traffic signals, pedestrian crossing, rail wayside, exterior and interior truck and bus lights, FAA certified obstruction lights, and signals for class1, div2 hazardous locations.

Additionally, we are uniquely positioned as a solid state lighting (SSL) integrator with expertise in electronic, mechanical, optical and thermal design and production.

In sum, our products address a wide spectrum of applications including architectural, transportation, theatrical and hazardous locations.
Direct Power and Water Corp., a wholly owned subsidiary of Preformed Line Products, has been manufacturing rugged mounting products for solar electric (PV) modules and battery housing products since 1993. Our Power-Fab™ product line is known to be the most rugged PV hardware on the market. PV mounting products include Power-Tube CRSTM, a flat-roof, non-penetrating mounting system for commercial applications; Power RailTM and SunstrutTM top-clamping racks; Ballasted Roof Mounts; Top-of-Pole Mounts; Side-of-Pole Mounts; Large Ground Mounts and Roof/Ground Mounts. Battery housing products include indoor and outdoor battery enclosures, cabinets and shelving units. Direct Power and Water Corp. also provides custom engineered solutions for unique PV installations.

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COMPANY PRODUCT’S PAGE
BUYER’S GUIDE

DOME-TECH SOLAR
Dome-Tech Solar develops and builds photovoltaic energy systems for commercial, institutional and industrial clients. We’re a national preferred partner of SCHOTT Solar, a global leader in the design and manufacturing of solar panels. This unique combination of SCHOTT’s manufacturing expertise with the local knowledge and system design build capabilities of Dome-Tech creates a comprehensive turn-key solar energy solution. Dome-Tech Solar is a member of the Dome-Tech Group, winner of New Jersey’s first Clean Energy Market Innovator Award.

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COMPANY PRODUCT’S PAGE

DOME-TECH SOLAR
Dome-Tech Solar develops and builds photovoltaic energy systems for commercial, institutional and industrial clients. We’re a national preferred partner of SCHOTT Solar, a global leader in the design and manufacturing of solar panels. This unique combination of SCHOTT’s manufacturing expertise with the local knowledge and system design build capabilities of Dome-Tech creates a comprehensive turn-key solar energy solution. Dome-Tech Solar is a member of the Dome-Tech Group, winner of New Jersey's first Clean Energy Market Innovator Award.
Draker Solar Design manufactures and sells the Green-Tech Monitoring™ line of performance monitoring systems. These high quality and state-of-the-art data acquisition systems provide live performance data for green technologies and renewable energy resources. The software conducts analyses and displays the information in an easy to use format. Draker Solar Design also offers technical services related to the renewable energy industry.

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COMPANY PRODUCT’S PAGE

Draker Solar Design’s Green-Tech Monitoring

Accurate monitoring begins with premium data acquisition! Without consistent, quality monitoring, you may never realize the performance or stability you could be getting from your green tech system. Draker Solar Design’s Green-Tech Monitoring™ line of products deliver the long-term reliability in the field that helps our customers get the most out of their renewable energy systems. The Green-Tech Monitoring™ line is built on the finest available hardware platform, developed by Campbell Scientific.

The pv-DAQ™ hardware package has been designed for commercial or demonstration utility-intertied and remote off-grid photovoltaic systems. The PV_DAQ™ hardware package can collect data for solar resource, back of module temperature, multiple subarray currents, array voltage, energy generated, and energy submetering. It can also be customized to include a variety of weather station options. Our green-DAQTM server is an energy efficient data center that combines different measurement system inputs and real-time data processing, to provide sophisticated green technology diagnostic tools and information.

Draker Solar Design’s net-DAQ software is designed to run on our green-DAQ server. This software interfaces seamlessly with our data acquisition hardware packages and other serial/Ethernet enabled devices. Draker Solar hardware and server packages running net-DAQ software equip the user with real-time performance monitoring and historical data analysis.
E3 Innovations Company specializes in energy management and renewable energy technologies. Experienced Certified Energy Managers (C.E.M.) lead project teams to provide comprehensive energy management services. Improving the quality and reliability of energy services (power quality, indoor air quality and illumination quality) while reducing operating costs is our standard. We distinguish ourselves from the competition in our ability to optimize overall building performance, work effectively with design engineers/architects, operations and maintenance departments, as well as management. Our capability to understand mechanical, electrical and building automation systems as well as Data Center requirements allows us to optimize overall building performance.

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Comprehensive energy and information management services. Technical and Economic studies to identify operational and maintenance cost savings, utility rate options, billing verification, equipment upgrades, power quality, indoor air quality and illumination quality improvement opportunities. Power monitoring available with portable and permanently installed meters. Power monitoring services to address power quality, billing verification, energy management control strategies. Building design services for optimization. Training for in-house staff on all aspects of energy management.
Ecotech Water LLC is a manufacturer of unique no or extremely low flow “Water Conservation” products. Ecotech's mission is to remain on the leading edge of “Water Conservation” product development by providing a continuously updated product line designed to help conserve the Earth’s potable water supply with an additional focus on improving Environmental, Health and Sanitary Conditions. Ecotech's focus in accomplishing this mission has been to develop and manufacture products that consume less water, improve performance and cut maintenance costs. In almost all cases the products manufactured by Ecotech are the only ones like them available anywhere in the World. Furthermore, our products help to reduce sanitary sewer and landfill burdens along with helping to reduce the emissions created by water treatment, water pumping and water heating. Ecotech’s concept of using a combination of water with added air instead of just more water has demonstrated that plumbing fixture performance can be substantially enhanced while conserving water.

Contact: Corporate Headquarters
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Website: http://www.ecotechwater.com

Ecotech’s Ecocloset toilet performs better using 0.8 gallon per flush water and air combined than other 1.6 gallon(s) per flush toilets that use all water and no air. The same high level performance is true for the 1.0 GPM “Air-induced” Shower; the 0.33 GPM “Air-induced” Sink Faucet Aerator; the 0.5 GPM “Air-induced” Pre-rinse Spray Valve which meets all Health Clean ability requirements and the Water Broom manufactured using “Air-induced” nozzles. ALL ECOTECH PRODUCTS COME WITH A WARRANTY THAT STATES “ANY REPLACEMENT PARTS YOU MAY NEED ARE FURNISHED WITHOUT CHARGE FOR 10 YEARS”.

COMPANY PRODUCT’S PAGE

Ecocloset
Low Flow Showerhead
No-Water Urinals
Since 1976 E M C Engineers, Inc. has successfully applied energy engineering analysis and design expertise to reduce energy consumption. Our primary focus is to assist owners of buildings find methods of reducing their monthly costs for energy from simple operational changes to complete replacement of outdated or improperly sized heating/cooling equipment. From energy analysis to sustainable design and commissioning services, EMC provides a synergistic approach to buildings and systems as a whole to achieve a building that is environmentally responsible, profitable, and a healthy place to occupy.

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COMPANY PRODUCT’S PAGE

We are experienced in performing energy modeling and analysis, sustainable design, and facilitating LEED projects toward attaining LEED certification. EMC specializes in:

- Energy engineering services  
- Sustainable design consulting and LEED certification  
- Building systems commissioning  
- Mechanical and electrical design  
- Building automation system design.

EMC's experience encompasses a broad range of facilities, including:

- Government facilities  
- University and research facilities  
- Sports and training facilities  
- Military bases  
- Restaurants & retail operations  
- Hospitals and healthcare campuses  
- K-12 schools  
- Industrial facilities  
- Supermarkets
Mesa Energy Systems, Inc. is a fully owned subsidiary of EMCOR Group, Inc. (NYSE:EME). We are a full service, licensed HVAC (Heating Ventilation Air Conditioning) building automation and retrofit contracting company headquartered in Irvine, California. We have 8 offices serving California in the greater San Diego, San Francisco, Sacramento, Bakersfield, San Jose, and Fresno areas. We provide fully integrated solutions for preventative maintenance, repair and/or upgrades to existing mechanical, electrical, and control systems, thereby maximizing both efficiency and economic impact.

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         Irvine, CA 92618
Phone: (949)460-0460
Email: dana_casassa@emcorgroup.com
Website: http://www.mesaenergy.com
E-Mon is the leading manufacturer of submeters and automatic meter reading (AMR) equipment. Commercial, industrial, multi-family and government entities worldwide rely on E-Mon D-Mon products to support their energy management and conservation needs, including utility cost allocation and subsequent billing to individual business units or tenants.

**History of Achievement:** Introduced in 1983, the E-Mon D-Mon was the world’s first electronic kilowatt-hour submeter, rapidly recognized as the industry standard. The U.S. Department of Energy later bestowed the company with a national award for energy innovation. Continuing that tradition of excellence, Class 3000 Advanced Meters have achieved numerous honors for technological advances in AMR, enabling Fortune 500 businesses to benchmark, analyze and aggregate their energy consumption.

**Commitment to Customer Service:** More than 3,000 distributors supported by a network of independent manufacturer representative agencies ensure convenient access to E-Mon metering products and systems. E-Mon’s 25+ years in the metering industry provides customers with the knowledge and experience to support their energy conservation and efficiency goals.

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E-Mon D-Mon metering products provide detailed energy usage information to building owners and managers of commercial, industrial, multi-family and institutional facilities. Armed with information that details exactly how, when and where energy is used in their facility allows them to take steps to curtail high energy bills by allocating energy costs to tenants or implementing load management programs. E-Mon D-Mon meters can be used as stand-alone metering devices or integrated into a complete AMR (Automatic Meter Reading) system. RightEnergy software allows users to read E-Mon D-Mon meters, as well as other utility meters, from a single easy-to-use system and generate a variety of energy management reports and graphs. Users can generate tenant and department allocation statements, utility bills, and graphic profiling graphs that show exactly when and where equipment uses energy.
Distributor Recommended,  
Contractor Approved.

E-Mon D-Mon Submeters

Class 1000 & Class 2000 meters are ideal for installation in all single- and three-phase applications. Meters include patented 0-2 volt split-core current sensors for quick and easy installation in commercial, residential and industrial applications and can be easily interfaced with RightEnergy software for automatic meter reading. Optional enclosures include MMU Multiple Meter Unit cabinets housing up to 24 meters and NEMA 4X enclosures for outdoor installation.

Class 3000 meters give installers and users alike the flexibility in installation and features to meet virtually any application. These advanced meters with on-board memory provide additional energy data including kWh, kW with peak date and time, power factor, real-time load in kW amps per phase and volts per phase. These meters have enhanced communication including telephone modem, Ethernet and ModBus for quick and easy remote monitoring via the RightEnergy software system.

Class 4000 meters are single-phase meters designed specifically for multi-family facilities where meters need to be installed inside the tenant locations. These meters interface with RightEnergy software for automated billing or energy use allocation.

RightEnergy Software

RightEnergy software completes the suite of E-Mon D-Mon products by managing the integral energy data from electric meters and submeters, gas and water meters to simplify billing, identify inefficiencies and increase the effectiveness of your overall energy savings program.

Recommend the meter preferred by contractors for over 25 years.

To request updated E-Mon D-Mon product information contact E-Mon at (800) 334-3666 or online at www.emon.com/epn31.asp.

E-Mon D-Mon®
Electrical Reliability Services (formerly Electro-Test, Inc.) is the nation's leading independent electrical testing, maintenance, and engineering service company. We help engineers, contractors and facility managers put energy to use wisely, efficiently and safely.

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Website: http://www.ers.assetweb.com

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Electrical Reliability Services (formerly Electro-Test, Inc.) offer a full range of electrical testing and maintenance services covering your complete electrical distribution system including commissioning and start-up services, acceptance and maintenance testing, project management, engineering studies, and electrical & safety training.
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Provides a full range of energy and regulatory consulting services

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• Evaluation of Energy Consumption and Cost
• Development of Energy Reduction Programs
• Analysis of Energy Supply Options Request for Proposal Management
• Supplier Management Services
• Consulting With Agencies to Develop Competitive Programs
• Advisor to Energy Users and User Groups
• Study Preparation and Publishing
• Professional Testimony Evaluation of Cogeneration
• Opportunities Project
• Coordinator Fuel Procurement
• Consulting Power
• Contract Consulting
• Coordination Merchant Cogeneration Owner
The Energy Solutions Center is a technology commercialization and market development organization representing energy utilities, municipal energy authorities, and equipment manufacturers and vendors. The mission of the Center is to accelerate the acceptance of and deployment of new energy-efficient, gas-fueled technologies that enhance the operations and productivity of commercial and industrial energy users, and improves comfort and reliability for residential energy users.

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The Energy Solutions Center (ESC) has many active consortia to help showcase the advances in technologies and solutions to meet end user customer needs. The Gas Cooling Consortium is made up of industry professionals, equipment manufacturers, utilities and Associations.

Consortium Goals:

- Provide natural gas cooling information to Energy Solution Center members and other interested natural gas distribution companies

- Provide natural gas cooling equipment manufacturers a forum to work with natural gas utilities interested in pursuing natural gas cooling opportunities

- Provide meaningful information on natural gas cooling equipment to natural gas utilities, gas cooling equipment manufacturers and specifiers of gas cooling equipment

For more information: Cooling Consortium Web Site www.gasairconditioning.org
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Energy & Power Management is a monthly magazine serving the commercial, institutional, and industrial markets. Energy & Power provides information about controlling energy use and cost and improving reliability to energy managers, C-level executives, facility owners and others responsible for making energy decisions.

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Energy & Power Management is a monthly magazine serving the commercial, institutional, and industrial markets. Energy & Power provides information about controlling energy use and cost and improving reliability to energy managers, C-level executives, facility owners and others responsible for making energy decisions.
EnviroTower™ is the most technically advanced system for cooling tower water treatment. The patented system completely replaces traditional chemical treatment; providing total control of scale, fouling, corrosion and microbiological contamination to create an exceptionally clean system that maximizes operating efficiency, and minimizes corrosion causing bacteria and other potentially harmful organisms, like Legionella. EnviroTower is environmentally safe with many opportunities for total water recycling.

- Save up to 30% on operating costs - by saving energy, water and chemical costs
- Eliminate chemicals and toxic blowdown
- Conserve and recycle water – up to 100%
- Reduce corrosion rate to <2 mpy
- Maximize Legionella protection

Contact: Don Toporowski, Vice President, Sales  
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Phone: 416-977-1105  
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Website: http://www.envirotower.com

The patented EnviroTower system consists of three major components working synergistically to provide a complete alternative to your traditional chemical treatment program: (1) a patented **Physical Water Conditioner** (PWC) (2) a **Separator**, or hydrocyclone, and (3) a **Mineralator**. The EnviroTower system is a simple retrofit to any existing or new cooling tower. In simple terms, the Physical Water Conditioner and Separator work to clean the system of scale deposits, biofilms, and generally remove nutrients for bacterial growth. The Mineralator controls any remaining bacteria in the system by adding trace quantities of mineral suppressants, zinc and iodine.
With annual sales of more than $610 million, ESRI remains the world leader in the geographic information system (GIS) software industry. Our business involves the development and support of GIS software for all types of organizations--from the one-person office to multinational corporations to innovative Internet GIS solutions. http://www.esri.com

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Website:  http://www.esri.com

ESRI’s Geographic Information Systems (GIS) technology offers power companies a method of quickly accessing and producing maps, planning and monitoring power generation resources, and automating work processes. Learn more about ESRI for utilities at www.esri.com/electricgas.

Ferris, Baker Watts is the largest full-service investment banking firm headquartered in Washington, DC. The company is a member of the New York Stock Exchange and SIPC, and is wholly owned by its employees. FBW specializes in project finance, having completed 534 transactions totaling $17.9 billion in public and privately placed debt since 1996. FBW has the ability to underwrite issues from $1 million to $300 million.

As an investment banker, FBW offers the ability to fund credit-worthy transactions using funds raised through private debt placements and public offerings. Transactions can be customized according to an existing set of cash flows or structured to meet a new client's contract specifications.

Targeted projects include biomass, biodiesel, land fill gas, wind and geothermal. FBW also serves the more traditional energy sectors of oil and gas, and coal.

Depending upon the scope of work, terms up to 30 year may be available. Transactions that qualify may be eligible for tax exempt financing, which could result in a significantly lower interest rate.

FBW's public and corporate and finance groups, comprised of 24 experienced investment bankers, provides a full range of investment banking and financial advisory services, including mergers and acquisitions and capital raising services. Transaction sizes generally range from between $2 million to $350 million.

If you are interested in discussing how our unique insight into the renewable energy markets may help your company realize its strategic plans, we are happy to set up an appointment with you.

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           Richmond, VA 23235
Phone:  800-446-2921
Fax:  804-649-2207
Fi-Foil Company, Inc. is one of the nation's largest manufacturers and distributors of energy-efficient reflective insulation and radiant barriers for residential, commercial, and agricultural buildings. The privately held company is headquartered between Tampa and Orlando in Auburndale, Fla. Fi-Foil's variety of radiant insulation products are primarily made of aluminum-based materials and are designed to keep homes and buildings cooler in the summer and warmer in the winter. The benefits are increased energy efficiency and improved indoor comfort. Fi-Foil produces a complete line of radiant barrier and reflective insulation products for use in residential, commercial and agricultural building applications. In addition to helping reduce energy consumption, reflective insulation is easy to install; is fiber-free and like other types of insulation, is available in various thermal performance levels.

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AA2 Vapor Shield reflective insulation is layers of polyethylene coated apper, a liner board and aluminum foil. The board expands and separates the paper from the foil to form two air spaces, reducing cavity heat flow. AA2 comes in a standard non-perforated version with vapor retarder uses and a Hi-Perm perforated version allowing vapor transmission. AA2 is available in standard widths for building cavities. Primary Application: Furred-out Masonry Walls

VR Plus Shield reflective insulation is a layer of polyethylene-coated paper, foil-paper laminate, aluminum foil and layers of liner board. The board separates the materials for three air spaces, reducing cavity heat flow. VR Plus comes in a standard non-perforated version, with vapor retarder uses, and a Hi-Perm perforated version, allowing vapor transmission. VR Plus is available in standard widths for building cavities. Primary Application: Furred-out Masonry Walls.

Silver Shield radiant barrier is a layer of aluminum foil laminated-paper strengthened with cross directional scrim, vacuum metalized PVC and layers of liner board. The board expands and separates layers to form an air space, reducing cavity heat flow. The product is installed to expose metalized PVC and foil to open air spaces, for significant radiant heat flow reduction. A Hi-Perm perforated version allows vapor transmission. Primary Application: Attic Radiant Barrier Frame Buildings

RetroShield System allows fast and easy installation in new and existing metal buildings. The system consists of RBI Shield Double Bubble with the integrated tape tab and the innovative Clip & Pin fastening components. The system works alone or back-loaded with mass insulation to fit specific R-value requirements. The product is a vapor retarder and has a clean finished appearance. Primary Application: Metal Buildings
FLIR Systems, Inc. (NASDAQ: FLIR) is the world’s leading supplier of infrared cameras and report generation software. With over 30 years experience and more than 30,000 of its IR systems in use, its commercial product applications include non-destructive testing, research and development, manufacturing process control, predictive maintenance/condition monitoring and broadcast imaging. FLIR products also play pivotal roles in such diverse applications as public safety, defense, navigation, and search and rescue.

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InfraCAM Thermal Imager Find problems fast with this rugged, ergonomic, and lightweight IR camera. Easy to operate and ultra-compact, the InfraCAM,§ is affordable and highly dependable. Detect hot spots, avoid electrical failures, increase safety, and even prevent fires by monitoring the condition of electrical systems. Crisp thermal images can be saved to the on-board JPEG image storage and downloaded to your PC with QuickView.

BCAM The BCAM infrared camera from FLIR Systems offers a non-invasive means of monitoring and diagnosing the conditions of buildings. This new and affordable technology provides immediate high-resolution thermal imagery, along with a built-in laser LocatIR, JPEG image storage, and easy PC connectivity.
Golden State Solar Power is a leading edge solar power dealer that designs, sells, and installs solar products for your business or residence. In a time of increased power usage when electrical appliances are a necessity and fossil fuels are limited, solar reliance has become our best option. Our solar products will reduce your power bill and give you the opportunity to own your own renewable energy system in an otherwise expensive and unstable energy market.

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**Website:** [http://www.goldenstatepower.com](http://www.goldenstatepower.com)

Golden State Power is a full-service renewable energy service provider from design, sales, installation and maintenance of solar and wind-generated systems.

We design, sell, install and maintain solar photovoltaic systems as well as wind turbines.
Energy efficiency starts here - with energy information. EnergyCAP client-server, desktop and online versions offer unsurpassed flexibility and features, from the 25-year industry leader. From energy reporting to bill auditing, EDI to tenant re-billing, performance contract M&V to interval data analysis, web-based interface to enterprise-wide data accessibility, EnergyCAP Enterprise handles it all!

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Energy efficiency starts here - with energy information. EnergyCAP client-server, desktop and online versions offer unsurpassed flexibility and features, from the 25-year industry leader. From energy reporting to bill auditing, EDI to tenant re-billing, performance contract M&V to interval data analysis, web-based interface to enterprise-wide data accessibility, Energy CAP Enterprise handles it all!
GSH is dedicated to providing high quality facilities and energy solutions customized for each client. GSH is a professional facilities services provider with offices in New Jersey and Washington D.C. reaching commercial properties in New Jersey, New York, Pennsylvania, D.C., Virginia, Maryland and Delaware. Our service offerings include HVAC service and maintenance, energyplus® guaranteed energy savings, O&M services and facilities maintenance management. GSH is an EnergyStar® partner, ISO 9001 and 14001 certified, and a GSA Federal Supply Schedule holder. GSH has a 24/7 in-house customer support center.

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All or any combination of the services we provide can be managed and provided by GSH, giving our clients the reassurance that their non-core activities are being managed in a professional, innovative and cost effective manner. At GSH, we believe we have created a unique approach to facilities management based on our commercial solutions, customer focused culture, and the development of our people and innovations. Our service offerings extend to include:

- HVAC Service and Maintenance
- Building Operations
- Guaranteed Energy Savings
- Permanent Site-Based Personnel
- Route Service Work
- In-house, 24-hour Call Center
- Guaranteed Emergency Response
- Remote Systems Monitoring
- Energy Management
- Water Treatment
- EMS Support
- Generator Maintenance
- Plumbing Services
- Electrical Services / Project Management
Halco Lighting Technologies manufactures a complete line of ProLume™ ballasts and lamp types designed for residential, industrial/commercial and special lighting applications. The ProLume™ ballast line includes Electronic Fluorescent, Magnetic Fluorescent, Plastic Sign, Compact Fluorescent and H.I.D. ballasts. The broad lamp offering includes Compact Fluorescent, Linear Fluorescent, H.I.D., Halogen, Incandescent, Miniatures and Sealed Beam, and Photo/projection lamps. Halco delivers quality lighting products cost to cost from their distribution centers in Atlanta, Cleveland, Houston and Phoenix. They also provide value-added services and support, including same-day shipping for orders placed by 2pm, drop-shipping, direct job-site shipping, and low minimum order and freight requirements.

Contact: Halco Sales
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Fax: 800.880.0822
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Halco Lighting Technologies™ ProLume™ family of electronic ballasts, which boasts premium ProFormance™ high power factor ballasts, with low total harmonic distortion (THD) which provides quiet flicker-free operations, and offers significant energy savings compared to its magnetic counterparts. This line includes multi-volt ballasts utilizing a single power lead requiring no special wiring, ensuring the correct ballast is used for every application. These versatile multi-volt products simplify ordering and reduce inventory costs. As an Energy Star® Partner, Halco® is committed to this energy saving initiative, by providing a complete line of Plug-In and Self-Ballasted lamp types under the ProLume® brand. ProLume® compacts save up to 80% in energy costs and last up to ten times longer then standard incandescent lamps.
Heatcraft Refrigeration Products (HRP) is a division of Heatcraft Worldwide Refrigeration Products, a wholly owned subsidiary of Lennox International, which manufactures premier commercial refrigeration products under the Bohn, Larkin, Climate Control, Chandler and InterLink brands. HRP leads the commercial refrigeration industry in providing solutions to today’s environmental and energy efficiency challenges. Our Energy Solutions® portfolio, featuring the Smart Defrost Kit™, EC Motors and highly efficient Air-Cooled Condensers, allows HRP to offer complete system solutions that conserve energy, enable cost savings and address key environmental issues.

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The Smart Defrost Kit™ (SDK) is part of the Energy Solutions® portfolio of energy efficient products. The SDK is a standalone control module that works in conjunction with electro-mechanical time clocks to skip unnecessary defrosts on walk-in electric defrost commercial refrigeration systems typically found in restaurants, convenience stores and small grocery applications. After familiarizing itself with the system, the SDK evaluates the frost accumulation on the evaporator and determines whether or not the accumulation is significant enough to allow a pre-scheduled defrost to take place. Additional product information and a payback calculator can be found at www.interlinkparts.com/sdk. Visitors may also sign up to receive e-mail notifications of product availability and developments. Bohn Monarch™ and Ambassador™ Series Air-Cooled Condenser are part of the Energy Solutions® portfolio of energy efficient products. Each series is designed to offer a tailored solution for the unique requirements of the supermarket and mission-critical/precision cooling applications. The Monarch™ Series by Bohn offers the optimum solution for sound and energy performance. It utilizes variable speed EC motor technology that provides unmatched sound and energy performance and is the perfect solution for applications where low noise levels and significant energy savings are essential for success. The Ambassador™ Series by Bohn is designed specifically with the growing needs of the supermarket and grocery industry in mind. This series utilizes 830 and 540 RPM motors and incorporates advanced features that further improve sound levels and energy efficiency as well as provide increased capacity in a smaller footprint. For more information on Bohn Monarch™ and Ambassador™ Series Air-Cooled Condensers visit www.thecoldstandard.com.
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Honeywell

Honeywell Building Solutions installs, integrates and maintains the systems that keep facilities safe, secure, comfortable, productive and energy-efficient. With Honeywell, organizations can maximize their capital creation, operational excellence, energy security and environmental profile in one, budget-neutral step. This is possible through the integration of supply- and demand-side programs. Over the last 20 years, Honeywell has delivered more than $1.9 billion in guaranteed energy savings.

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Building Automation & Control: Let Honeywell expertise and innovation simplify your next building project - and improve building performance throughout its entire lifecycle. Today’s facilities and building systems are so complex that even modest projects can seem overwhelming. Honeywell can help.

Building Management Systems: Honeywell can help you integrate new and existing building systems - affordably. Your customized solution will simplify facility management and help your building become more cost-efficient, comfortable and safe.

Energy Solutions: By integrating energy supply and demand strategies, Honeywell can help reduce your operating costs - by 20 percent or more. Reinvest your savings into facility improvements or apply them directly to your bottom line.
HY-R Building Systems manufactures structural insulated panel systems that incorporate light-gauge steel frame construction integrated with EPS foam insulation. We manufacture exterior and interior wall systems, floor and roof systems for commercial and residential applications. Manufactured under controlled conditions, HY-R panels are crafted to exacting tolerances which cannot be matched by on-site frame fabrication. Pre-formed electrical and mechanical chases further speed construction and make life easier for subcontractors. Our design specialists work directly from architectural plans to develop detailed production and assembly diagrams, meaning architects and designers don’t need to do anything differently on their end. We supply a factory-trained, on-site technician on every job, and a complete installation service in many areas. Our products are environmentally responsible due to their energy-efficiency and our use of recycled materials which means they are well-suited for "green" building projects. Due to their high strength, they are also outstanding for hurricane prone regions.

Contact: Jonathan Hunt - VP, Sales & Marketing
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Phone: 845-292-1563
Fax: 845-292-1564

HY-R structural insulated panel building systems are used for exterior and interior walls, floors and roofs in residential, commercial and industrial applications. Our panels utilize standard, galvanized steel structural framing members in 12 gauge to 20 gauge, and widths between 3-5/8" to 14". All exterior framing members are embedded in 1 pcf EPS foam insulation, generally 7" thick in wall panels and 9½" thick in roof panels, with a 1-1/2" EPS thermal break over all members.
Energy Systems Inc., a business of Ingersoll-Rand Company Limited, is a developer of distributed-generation power technologies that produce electrical energy that is cost-effective, reliable and safe for the environment. The company specializes in developing microturbines (70- and 250-kilowatt) and natural-gas and diesel-powered generators for prime, peak shaving or back-up energy applications that supplement utility grids. Energy Systems also provides microturbine-based solutions for transforming harmful waste gases produced by wastewater treatment facilities, landfills, and oil and gas production facilities into cost-efficient energy produced on site with comparatively few emissions. With an emphasis on developing solutions that will enable its customers to fulfill specific business goals, Energy Systems offers the most comprehensive maintenance, service and financing programs available in the microturbine and generator markets.

Contact: Inside Sales  
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The Ingersoll-Rand MT70 and MT250 microturbines use a proprietary recuperator technology to achieve high electrical generation efficiency. An integral heat recovery system is available for the production of potable hot water. Configurations are available for burning fuels with a wide range of Btu levels.
Founded in 1995, InStep combines engineering and software expertise to build top-notch software products for our clients. We specialize in bringing real-time, engineering data to both engineers and non-engineers alike in ways that transform a myriad of complex and confusing data into valuable information. These systems are used in various capacities within the power/process, utility management and telecommunications industries, such as for monitoring, control, diagnostics, reporting, simulation and tracking. We use state-of-the-art software technologies to provide flexible, scalable, and cost effective solutions. InStep is owner and developer of the eDNA Software Suite. eDNA is used throughout the world in hundreds of applications by some of the largest utilities, universities and government organizations. The installations include Energy Management systems, Utility Subsidiary & Billing systems, Transmission & Distribution systems as well as Nuclear, Fossil and Hydro Power Plants. eDNA is often used as the foundation for mission critical decision support systems for these organizations. InStep has extensive experience integrating and installing its own solutions providing reliable and efficient IT and engineering solutions as well as working with approved system integrators.

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Website:  http://www.instepsoftware.com

EBS streamlines utility billing and cost allocation processes, while greatly improving the reliability and accuracy of information. EBS (eDNA Billing System) was designed to meet the complex utility accounting and reporting needs of a large organization with 100s or 1,000s of buildings and accounts often spread across multiple campus locations. EBS uses a highly flexible cost allocation structure ensuring direct access to meter, account, building, and defined group cost and consumption information. EBS can be operated as a stand-alone solution, or it can be easily integrated with existing business systems, automated meter reading/data collection devices, or GIS data. All utilities can be accounted for, including electricity, water, metered gas, bulk gas, chilled water, fuel oil and steam.
Integrys is one of the fastest growing non-regulated energy companies in North America, providing individualized energy supply options and strategies that allow customers to manage their energy needs while capitalizing on opportunities resulting from deregulation. Integrys serves customers in 23 U.S. states and three Canadian provinces through locations in Alberta, Colorado, Illinois, Kentucky, Maine, Michigan, Ohio, Ontario, New York, New Hampshire, New Jersey, Quebec, Texas, Virginia, and Wisconsin.

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Integrys is one of the fastest growing non-regulated energy companies in North America, providing individualized energy supply options and strategies that allow customers to manage their energy needs while capitalizing on opportunities resulting from deregulation. Integrys serves customers in 23 U.S. states and three Canadian provinces through locations in Alberta, Colorado, Illinois, Kentucky, Maine, Michigan, Ohio, Ontario, New York, New Hampshire, New Jersey, Quebec, Texas, Virginia, and Wisconsin.
International Power Machinery Company and its headquarters staff Alan Kern, Robert Joseph, Denise Kennedy, and Anne-Marie Senchak have provided services locally to corporate giants such as Goodyear Tire & Rubber Company, Republic Steel, General Electric, and LTV Steel, and municipalities such as Painesville, Celina, and Orrville. The company also is frequently approached by leasing companies, consulting engineers, banks, and utilities to evaluate equipment and prepare appraisals, and has assisted international clients such as Central Azucarera de Bais of the Philippines, Celulosa de Chihuahua of Mexico, Imperial Oil of Canada, and Central Azucarera Portuguesa of Venezuela, in successfully locating, purchasing and preparing for shipment equipment that meets their specifications.

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Its beginnings were humble-a small family business in Cleveland’s Industrial Flats, on Scranton Road near the Eagle Street lift bridge. Founded in 1918 by the older brothers Sam Kern, father of the current president of International Power Machinery, the company purchases and re-sells previously owned power equipment that is used to generate steam and/or electricity. Before 1941, in addition to the sales force, the company- at that time known as National Power Machinery Company- also employed about 10 skilled tradesmen to repair and rebuild the inventory equipment, as well as maintain a warehouse for the machinery. That work force eventually was drafted to serve in World War II. After the war, the company moved its offices downtown and changed its name to reflect the expanding market, today the company is located in Tower City Center.
**BUYER’S GUIDE**

Distributor of Elysator, a non chemical method of water treatment for fresh water closed loops such as boilers, heating, chilling and ships engines. Can be used on cooling towers as well.

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**Website:** [http://www.iwtna.com](http://www.iwtna.com)

**COMPANY PRODUCT’S PAGE**

The function of the Elsaytor is based on the anodic/cathodic principle i.e. letting a less noble metal (magnesium) be sacrificed (corroded) instead of the system itself, related to galvanic series/elements. During the process the oxygen in the water will be absorbed creating H20 and maganesium hydroxide. When the Elysator is installed the entire system will be protected from corrosion. Even aluminum and aluminum alloys are protected.

**Elsaytor Water Treatment without Chemicals**

<table>
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<tr>
<th>Why?</th>
<th>What?</th>
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<td>No Chemicals</td>
<td>Corrosion Protection</td>
<td>Boilers</td>
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<td>No Disposal</td>
<td>Prevents Scaling</td>
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<td>No Dosing</td>
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<td>No Chemical Storage</td>
<td>Controls Ph</td>
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<tr>
<td>Minimal Testing</td>
<td>Lowers Conductivity</td>
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Itron is a leading technology provider and critical source of knowledge to the global energy and water industries. Nearly 3,000 utilities worldwide rely on Itron’s award-winning technology to provide the knowledge they require to optimize the delivery and use of energy and water. Itron creates value for its clients by providing industry-leading solutions for electricity metering; meter data collection; energy information management; demand response; load forecasting, analysis and consulting services; distribution system design and optimization; web-based workforce automation; and enterprise and residential energy management.

To know more, start here: [www.itron.com](http://www.itron.com)
or Call Toll Free: (800) 635-5461

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At KMC Controls (www.kmccontrols.com), we are committed to "building your comfort zone." Since 1970 we have been designing and manufacturing building automation solutions, HVAC control products, and energy management systems. We remain the only privately held supplier with such a complete offering. Our product line consists of digital systems (employing both proprietary and open communication protocols) and of electronic and pneumatic controls, actuators, valves, and sensors. These solutions find a home in today's most sophisticated facilities and can reach your door through a network of value-added, authorized installing contractors.

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The KMD-5270 is a Tier 1, Ethernet-ready direct digital controller that offers the flexibility of a embedded HTTP server. WebLite Plus can serve up graphics-based web pages to any Internet-ready device without special software. Use WebLite Plus to operate stand alone installations or make it a part of larger KMC peer-to-peer networks. WebLite Plus Highlights
A graphic based, cost-effective internet solution.  
Combine with other KMC controllers through Ethernet or RS-485 networks. Controls room temperature, humidity, fans, monitors refrigeration, lighting, and many other building automation functions. Stay apprised of alarms and take corrective action from wherever you are.
LEDtronics manufactures LEDs (Light Emitting Diodes) Lamps for a wide variety of applications from decorative lighting, Signage, panel mounts, Industrial lighting to theme parks. Our product line encompasses an array of direct incandescent replacement Based LED lamps and bulbs, Low cost Snap-in and Relampable Panel Mount LED lamps, for all standard electrical bases and voltages. Our inventive product line encompasses an array of direct incandescent lamp replacement Based LED lamps, Low cost Snap-in and Relampable Panel Mount LED lamps, High intensity Sunlight visible Discrete LEDs, PCB LEDs circuit board status indicators, Surface Mount Diodes SMT LEDs, Full spectrum Rainbow RGB LEDs and Infra-Red (IR) LEDs.

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Leviton offers a comprehensive line of state-of-the-art lighting management system solutions for commercial, theatrical and architectural lighting applications. They include an assortment of relays designed to meet specific lighting control applications in commercial buildings, and a variety of wall and ceiling occupancy sensors that are either Passive Infrared (PIR), ultrasonic, or multi-technology (PIR and Ultrasonic). All of these lighting management products are designed to reduce energy costs and many conform to ASHRAE and California Title 24 requirements. Leviton’s occupancy sensors are ideal for closed offices, conference rooms, cubicles, warehouses, stairwells, closets, bathrooms, corridors, lobbies, etc. Depending on the location or facility, energy savings can be as high as 75%. Leviton is a single source for energy management solutions.

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Leviton offers a comprehensive line of state-of-the-art lighting management system solutions for commercial, theatrical and architectural lighting applications. They include an assortment of relays designed to meet specific lighting control applications in commercial buildings, and a variety of wall and ceiling occupancy sensors that are either Passive Infrared (PIR), ultrasonic, or multi-technology (PIR and Ultrasonic). All of these lighting management products are designed to reduce energy costs and many conform to ASHRAE and California Title 24 requirements. Leviton’s occupancy sensors are ideal for closed offices, conference rooms, cubicles, warehouses, stairwells, closets, bathrooms, corridors, lobbies, etc. Depending on the location or facility, energy savings can be as high as 75%. Leviton is a single source for energy management solutions.
Founded in 1970, Litetronics manufactures and markets a wide range of dynamic lighting products, including incandescent, halogen, fluorescent, compact fluorescent, metal halide and high pressure sodium lamps. Continuing with its tradition of innovation, Litetronics has recently introduced Micro-Brite, a new generation of extremely durable and efficient cold cathode fluorescent lamps. Litetronics is also pleased to feature its newest product, the Neolite, an Energy Star qualified T2 lamp representing the next revolution in CFL miniaturization. By using up to 75% less energy than incandescent lamps, Neolite significantly reduces the amount of greenhouse gases released into the atmosphere. Additionally, Neolite CFLs contain only 1 milligram of mercury inside its tube compared to 4 milligrams of mercury in a standard CFL. This makes Neolite safer for the environment when it is disposed at the end of life. Neolite’s smaller size allows it to replace incandescent in more applications, while lasting 10,000 hours, 5 times longer than standard incandescents. Litetronics prides itself in developing stable, long-term relationships with original equipment manufacturer customers and distributors. We encourage you to call Litetronics or visit our website at www.litetronics.com and learn how we can serve all your lighting needs, both today and tomorrow.

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COMPANY PRODUCT’S PAGE

Neolite
The Neolite T2 compact fluorescent lamp from Litetronics International, Inc. is an Energy Star qualified lamp with a 10,000 hour life. Neolite is the most efficient CFL on the market due to a newly developed premium coating process that maximizes the reaction inside the tube and yields up to 70 lumens per watt – a 5% increase in efficiency over standard CFLs. Because it uses up to 75% less energy than incandescent lamps, Neolite conserves energy and significantly decreases the amount of greenhouse gas emissions released into the atmosphere by power plants. Neolite is made to comply with RoHS – the European Rules on Hazardous Substances – and incorporates the use of lead-free glass and solder.

Micro-Brite
Ranging from 2 to 8 watts, Micro-Brite™ cold cathode compact fluorescent lamps are a direct replacement for incandescent lighting up to 40 watts without any loss of light output. Micro-Brite lamps have an expected life of up to 25,000 hours and can save up to 90% in energy costs when compared to incandescent lamps. Due to their extremely long life, Micro-Brite lamps also cut down on maintenance and replacement costs. Micro-Brite lamps can be used indoors or outdoors in extreme heat, cold, and weather conditions. They are also flashable and dimmable down to 5%. Micro-Brite lamps fit standard fixtures and come in a variety of shapes and color temperatures.
BUYER’S GUIDE

Lodging Technology is the originator (1980) and recognized leader in infrared sensor-based hotel guestroom energy management systems. Features include the ability to remotely determine if an area is physically occupied, without disturbing the occupants, for improved service efficiency and security. Though primarily designed for the lodging industry, the company's products are applicable to other facilities with irregular occupancy patterns. The company's GEM Stat™ II series of digital thermostat, with built-in energy management features, will directly replace any mercury bulb or mechanical thermostat of any voltage from 24v to 277v.

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COMPANY PRODUCT'S PAGE

GEM System® reduces guestroom, office, meeting room HVAC costs 35% - 45% and improves comfort. Operation is transparent to occupants and easy to understand, operate, and maintain by non-technical personnel. GEM Stat™ II is an accurate, easy to use digital fan coil thermostat with programmable energy management features such as temperature limiting and unoccupied setbacks. GEM Light™ is an infrared sensor-based lighting control.
LPB Energy Consulting combines hundreds of years of energy experience, focusing primarily on procurement, demand management, bill-verification and bill-payment. LPB has over 1000 clients nationally and long, established relationships with suppliers nation-wide. LPB leverages those relationships to our client's advantage through lower costs, better terms and lower risk. LPB currently has over 150 employees, including five energy attorneys & five commodity analysts, with the national headquarters based in Dallas, TX. LPB has offices in Houston, Chicago, New York, New Jersey, D.C. & a Service Bureau in Olympia WA. Through our SMR Utility Manager Online™ software, LPB assists in the demand management of all utilities. UM Online was recognized by Energy Star as “Partner of the Year” for 2006 and received the “Continuing Excellence” award for 2007.

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COMPANY PRODUCT'S PAGE

LPB Energy Consulting combines hundreds of years of energy experience, focusing primarily on procurement, demand management, bill-verification and bill-payment. LPB has over 1000 clients nationally and long, established relationships with suppliers nation-wide. LPB leverages those relationships to our client’s advantage through lower costs, better terms and lower risk. LPB currently has over 150 employees, including five energy attorneys & five commodity analysts, with the national headquarters based in Dallas, TX. LPB has offices in Houston, Chicago, New York, New Jersey, D.C. & a Service Bureau in Olympia WA. Through our SMR Utility Manager Online™ software, LPB assists in the demand management of all utilities. UM Online was recognized by Energy Star as “Partner of the Year” for 2006 and received the “Continuing Excellence” award for 2007.
Lutron Electronics is the world’s leading designer and manufacturer of lighting controls, architectural lighting control systems and shading solutions for residential, commercial and institutional applications. Over 40 years ago, Lutron introduced the first dimmer switch – giving consumers a new way to create comfort and ambiance in their home by allowing them to control and dim the lights. Since then, Lutron has significantly advanced the industry with innovative, high-quality products for residential and commercial lighting applications. Lutron now offers more than 10,000 products to satisfy virtually any lighting need. Today, Lutron’s lighting and shading control systems can be found in some of the most recognized buildings and structures across the globe.

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Ecosystem devices employ revolutionary technology allowing each device to listen, think, decide and remember. Suitable for any size project, EcoSystem fluorescent lighting control solutions create fluorescent lighting control systems with simple building block architecture of EcoSystem fluorescent dimming ballasts, sensors and controls, which are free from interfaces and power packs. The EcoSystem ballast is the centerpiece of Lutron’s revolutionary EcoSystem fluorescent lighting control solution. EcoSystem redefines fluorescent lighting control by providing daylighting, occupant sensing, personal control, and building-wide control in the most simple and cost-effective system available today. The product simplifies replacements by remembering preset programming so that new units do not need to be readdressed. Up to 64 EcoSystem ballasts can be connected on a simple 2-wire control bus that is both topology-free and polarity-free. Lutron’s EcoSystem provides a green solution to complying with building codes and guidelines.
MacroAir Technologies are the inventors and original manufacturers of high volume, low speed, HVLS Fan Technology. Cool, warm, de-stratify, and move air seamlessly. Big fans deliver optimum air flow for improved comfort and productivity. Our founder, Walter Boyd continues to lead and inspire the MacroAir staff. MacroAir Technologies designs, manufactures and delivers two distinct air movement systems; The Airvolution™ line aimed to enhance the comfort and productivity of people. And the MaxAir™ line engineered to deliver higher air velocities for cooling livestock, or where extreme moisture, bacteria, mold, mildew, and wet conditions such as wet floors exist.

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High volume, low speed; HVLS Industrial Ceiling Fans feature our new high performance, energy efficient Six Blade Design. Fan diameters measure from 8 to 24 feet and deliver exceptional airflow with high CFM/Watt performance. Our Six Blade Design also features our new patent pending Two Part Interlocking Safety System. MacroAir HVLS fans are acknowledged by state and local utility Energy Efficiency Incentive Programs for their energy saving performance. MacroAir HVLS fans generate the perfect, non-turbulent, refreshing breeze to optimize the cooling effect for improved comfort and heat stress relief. In winter, the fans are reversible and push warm air layers trapped at the ceiling down to the work area where people need warm air circulation.
BUYER’S GUIDE

Magnaray® has been designing energy and visually efficient lighting fixtures, and systems since 1964. The products enhance the quality of the lighted environment, while reducing energy consumption. For most exterior, and many industrial or commercial interior lighting applications. Variable voltage, emergency, solar, color correct lighting systems which can used with motion sensors can save large amounts of energy and money.

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COMPANY PRODUCT’S PAGE

Magnaray® offers a variety of high intensity fluorescent (HIF) area, and street light luminaries ranging from 18 - 212 watts. Units are "Wet Location" listed by CSA (US), CE, MEEI, and are in use in various countries for park area, streets, security, landscape, emergency (outdoor as well as indoor) lighting applications. Reduced glare, and great uniformity make this product attractive for energy efficient, high quality lighting requirements that reduce capital costs, lower maintenance costs, and provide better maintained lighting levels than HID systems.
Magnetek, Inc. manufactures digital power products and systems used in distributed power generation, industrial controls, medical electronics, semiconductor processing, consumer products, transportation, communications, information technology and other applications requiring highly reliable, precise, energy-efficient power. Magnetek started in alternative energy power conversion over 10 years ago with the development of a 200kW fuel cell inverter. Building on this experience, Magnetek is now a major player in all segments of the alternative energy market including: Photovoltaic (PV), Wind, Stationary Fuel Cells, and Micro Turbines.

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Magnetek is a solution provider for power conversion of large as well as small power wind systems. The VCS converter provides power conditioning for in-line megawatt-scale wind turbines. The MWI converter is a complete power interface for small power wind and hybrid power systems specially designed for residential and commercial applications. Magnetek is the leading provider of advanced power electronics for Fuel Cell Converters from 500W to over 300 kw. Magnetek specializes in portable microturbine solutions able to deliver backup and emergency power using high density, easily transportable packages.
Measurlogic Inc. is your Energy Management and Power Quality Partner. The company is focused on providing the most affordable, effective and scalable energy management solutions for building owners and facility managers. Our extensive line of state of the art sub-meters for load control, demand analysis and cost allocation, provide the tools to maximize profits and productivity. PowerStudio, the web based, energy monitoring and control software application offers the user the ability to analyze and manage real-time as well as historic data from multiple remote meters through an intuitive web browser interface. PowerStudio can also be used to log data from 3rd party energy, gas and water meters as well as any sensor with a mA or pulse output e.g. flow, temperature or BTU.

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DTS 305 – The DTS 305 is an ultra-versatile three phase ANSI C12.20 Class 0.5 power/energy meter that supports 1A, 5A as well as mV CTs. Its highly customizable I/O structure provides up to 6 Analog outputs, 10 digital outputs and 4 status inputs providing interfacing to 4 existing energy, water or gas meters. The DTS 305 also has 2 communications ports including Modbus RTU and DNP 3.00 protocols.

EDMk Series – The EDMK is the smallest ANSI C12.16 Class 1, three-phase energy sub-meter with integral display. It provides an easy 1 step start-up, can be DIN rail or front panel mounted and is ideal for any sub metering application with its tamper proof feature. It can be supplied with pulse outputs as well as a RS-485 Modbus RTU interface.

CVM-K2 – The CVM-K2 is a three phase ANSI C12.20 Class 0.5 (Class 0.2 option) energy and power quality meter ideally suited for facility service entrance locations. Its flexible mounting options include ANSI 4” round front panel mounting, DIN rail as well as split remote display The meter provides detailed PQ data including sags, swells, interruptions and disturbances. It can accommodate up to 3 expansion cards covering on-board memory, multiple I/O options and numerous communication capabilities including Modbus TCP and RS-485 Modbus RTU) All meters are compatible with PowerStudio the web based, energy monitoring and control software application.
MGT Inc. is a Consulting Engineering Company founded in 1984 to serve the process and power generation. MGT Inc. operates the MGT Informal Consulting Network, a group of widely known consultants consisting of experts such as Carl F. Andreone, P.E., Fellow of the ASME in Shell-and-Tube Heat Exchangers, Power Plant Heat Exchangers and Closed Feedwater Heaters; Burns Engineering Services in Steam Surface Condensers; Structural Reliability Technology in Fracture Mechanics and Stress Analysis; Coates Engineering in Metallurgy and Corrosion; Sperko Engineering Services in Welding; Jerry Taborek, Inc. in Thermal Design and H. Nelson Thompson in Feedwater Heater Performance.

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MGT’s copyrighted Closed Feedwater Heater Suite is the basis for MGTs preparing procurement specification and follow on work during construction of Closed Feedwater Heaters. MGT Informal Consulting Network Members have presented many offerings of our copyrighted intensive, short training courses, "Closed Feedwater Heaters-Mechanical Aspects", "Tubular Heat Exchanger Inspection, Maintenance and Repair" and "Shell-and Tube Heat Exchangers-Mechanical Aspects" for public and in-plant presentations.

"The Closed Feedwater Heater Suite" consists of a CD or DVD containing a Generic Specification for Procuring of New and Replacement heaters, "A Guide to Tube Plugging" and "Guide for Performing Feedwater Heater Autopsies", and checklists for evaluating Manufacturers and Service Organizations. We also offer CDs/DVDs containing Power Point presentations and MSWord course notes of each of our copyrighted courses. Looseleaf bound hard copies of the course notes are also available.
Mid Atlantic Energy and Data Concepts was started in 1994 with a vision to help businesses not only conserve energy but to benefit from the savings they receive through installation of energy-efficient products. The industry and our customers recognize us as a company that provides each client with an energy-efficient lighting and HVAC systems, which set new standards in progressive design, forward thinking and customer satisfaction.

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COMPANY PRODUCT’S PAGE

We have significantly reduced energy costs for many owners of commercial and industrial facilities, office buildings, as well as institutional and healthcare facilities. Most of these projects were upgraded and paid for through the energy savings achieved. This helps to eliminate the need for large capital expenditures to implement these energy saving measures.
Since 1984, Monroe Infrared Technology, Inc. has been a leading provider of infrared cameras and equipment to the industrial and scientific communities. The staff at Monroe Infrared is knowledgeable, experienced, and dedicated to meeting our clients' needs. Whatever your specialized thermal imaging requirement, MITi has the practical experience and resources to take it from project initiation through final implementation. We offer a complete family of infrared cameras and software products to the infrared imaging industry. Whether the need is building science/energy, preventive maintenance, scientific investigation, or security, the staff of MITi is knowledgeable, experienced, and dedicated to meeting them all. We are thermographers and we are in the field solving problems - and have been doing it for years. From small businesses, U.S. Government contracts and state agencies - to Fortune 500 companies including theme parks, automotive manufacturers and power utility providers.

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MITi Heat-Find IR HR Monroe Infrared Technology has unveiled the Heat-Find IR HR thermal imager. Ideal as a field camera, the thermal imager has a high, 320x240 resolution that provides crisp, clear images, has the ability to store up to 500 BMP images and requires no special software to download information. This point and shoot camera has a three-and-a-half inch viewing LCD and a wide FOV lens (54 degrees).

The ISG K6800 SpectraScan is a high-performance hand-held radiometric infrared camera offering extensive on-board image analysis tools including precision non-contact temperature measurement, real-time 4 image trending, isothermal, and area analysis.

The K6800 utilizes advanced uncooled UFPA microbolometer technology and is capable of storing 500 images with voice clip on a removable compact flash memory card. Visit our website for a free seven day trial of this comprehensive thermal imaging software system.
Natgun Corporation was founded in 1929 as the National Gunite Corporation. Since then we have built over 1,000 prestressed concrete tanks throughout the United States of America. Based on our experience, quality of workmanship, and improvements in technology, our tanks should provide continuous maintenance-free service for over 50 years. Durability and “peace of mind” are built into every one of our maintenance-free tanks. In 1982, we constructed our first Thermal Energy Storage (TES) tank in response to this emerging energy savings technology. Natgun continues to design and build the most energy efficient naturally stratified TES tanks with the same emphasis on superior quality of construction as our standard water storage tanks. Our TES tanks are designed with octagonal diffusers, adhering to the design guidelines of the ASHRAE standards. Because we construct Natgun tanks in accordance with the American Water Works Association Standard D110 - Type III tanks, and utilize materials that will not corrode over time, regardless if our tanks are built above ground, partially buried, or fully buried. We believe the successful expansion of Natgun Corporation is a direct result of our high standards in quality of construction and the dedication of employees to provide superior service to our customers.

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COMPANY PRODUCT’S PAGE

Natgun Corporation builds the highest quality Thermal Energy Storage (TES) tanks. Each tank is designed by Natgun engineers to maximize the energy storage capacity and minimize the energy and operational costs for the owner. Not only do our tanks allow owners to reduce their costs by shifting the electric demand from daytime hours to nighttime hours, but also they significantly reduce air emissions at the source generation facility. Our tanks are made of re-enforced concrete, therefore, they never need maintenance, and they can be built above ground, partially buried, or fully buried underground. Natgun tanks are constructed watertight with materials that will not corrode over time ensuring owners of decades of continuous service.
Nature’s Lighting of Park City, Utah is a growing and innovative leader in the daylighting revolution. It is responsible for the manufacture, sales, marketing, installation and technical support of the SunTracker ONE Daylighting System. The company serves the retail, warehousing, manufacturing, institutional and commercial markets worldwide. It offers the expertise and resources that architects, lighting designers and end users require to ensure successful daylighting projects. Nature’s Lighting continues to push the boundaries of daylighting systems designed to manage sunlight in built environments. The company’s commitment to customers provides forthright answers, helps hurdle inevitable issues and instills confidence that end results meet expectations. When it comes to daylighting, depend on Nature’s Lighting for design assistance, consultation and project management accountability. Choose Nature’s Lighting for peace of mind.

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The SunTracker ONE Daylighting System helps produce significant energy and operational savings, provides better light quality, enhances employee productivity and preserves the environment. The system enables electric lights to be turned off completely for up to 12 hours a day by capturing sunshine from about one hour after dawn to one hour before dusk. A three-mirror array reflects daylight through prism lenses that diffuse and spread it evenly inside an indoor environment. Powered by a solar-powered motor and a programmable microprocessor, the array automatically follows the sun arcing across the sky. A rechargeable, long-life lithium battery provides power on cloudy days. The daylighting system is 4 ft. long, 4 ft. wide and 2 ft high.
NewBio E Systems Inc. has developed an innovative approach for the pretreatment of high-strength solid and liquid waste. The core technology is a patented anaerobic biological reactor packaged with a high level of process automation and on-line process management. The process produces biogas that can be used to generate “Green” energy. The technology has been applied to wastewater, biodegradable solids, fats and oils from the potato processing, beverage, meat processing, prepared foods, salad dressing, dairy, and candy industries.

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COMPANY PRODUCT’S PAGE

- **Anaerobic BioAccelerator™** - A patented technology capable of handling waste streams other anaerobic systems cannot. The unique down-flow process utilizes a sand filter clarifier in the bottom of the reactor to retain organic material and biomass inside the digester. The technology is the result of over eight years of product development and application research on waste streams.

- **BioAccelerator™** Modules - Pre-engineered, shop-built and fully tested modules containing the mechanical operating systems and specialized instruments for the BioAccelerator and/or the chemical delivery system for sustainable biological treatment.

- **BioGuard-Online™** - Software, data processing, and a PC/Web based remote process management system allow easy local or remote monitoring and control. We have translated eight years of application development into an automated, easy to operate system requiring minimal customer attention.
next>edge is an award-winning turnkey provider of fully integrated energy efficiency and power generation solutions for all types of commercial facilities. The company’s experience encompasses the design and implementation of over 200 separate and unique energy efficiency and power generation projects to date totaling over $45 million. next>edge won the 2006 ENERGY STAR Partner of the Year Award and the 2005 Flex Your Power Award for its outstanding contributions to protecting the environment through superior energy efficiency.

next>edge's distinctive approach seamlessly blends energy demand reduction, power generation and operational strategies into a comprehensive, customized, technology-neutral solution. We address all energy cost control and cost reduction opportunities within the entire "envelope" of a facility. next>edge’s revolutionary 7-step process focuses on formulating strategic, integrated solutions that are customized to achieve maximum energy efficiency and return on investment for your organization. We ensure that mechanical, electrical and technological systems are integrated together, that new technologies are synchronized and optimized with older existing systems; and that our clients' staff is adequately trained in new technologies, operational standards and best practices to ensure successful implementation. And, unlike typical vendors, next>edge is uniquely sensitive to the concerns of owners and operators of real estate. Its parent company, Arden Realty, Inc., is the largest landlord of office buildings in Southern California.

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COMPANY PRODUCT’S PAGE

next>edge provides a broad spectrum of energy services, from basic consulting and energy audits to design and installation of energy retrofits and new energy technologies. next>edge also provides ongoing maintenance and assistance with developing and implementing strategic operational standards.

Our comprehensive services include:

- Energy Audits
- Solar
- Back-Up Power
- Cogeneration
- Energy Star Benchmarking
- Lighting
- HVAC
New England Energy Management, Inc. (NEEM) has been in business for more than 21 years. We specialize in energy management through Innovative Lighting retrofit solutions and Intelligent Lighting Design. NEEM has done lighting projects throughout the U.S., including the contract for all the locations in Ford Motor Company’s North America Parts Supply and Logistics, Customer Service Division.

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Email: scott@newenglandenergy.com
Website: http://www.newenglandenergy.com

New England Energy Management, Inc. (NEEM) has been in business for more than 21 years. We specialize in energy management through Innovative Lighting retrofit solutions and Intelligent Lighting Design. NEEM has done lighting projects throughout the U.S., including the contract for all the locations in Ford Motor Company’s North America Parts Supply and Logistics, Customer Service Division.

www.newenglandenergy.com
BUYER’S GUIDE

ONICON is a manufacturer of highly accurate water flow meters and energy measurement systems (BTU meters) which are ideally suited for HVAC, municipal water and process applications.

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COMPANY PRODUCT’S PAGE

ONICON is a leading manufacturer of high quality water flow meters, mass flow meters for steam and BTU meters. Every ONICON product is manufactured and wet calibrated specifically to the customers’ order in our N.I.S.T. traceable flow laboratory. This attention to detail and commitment to service ensures that every flow and BTU meter will provide maximum accuracy and performance, even in difficult flow conditions.
OUR BUSINESS IS FINE TUNING FUEL MANAGEMENT FOR OUR CUSTOMERS.

Located in Charleston, SC and Cleveland, GA — offering a comprehensive and progressive tank cleaning service/fuel management program— our Fuel Quality Assurance Program™ — and providing the latest information on safety, compliance, and the prevention of problems with fuel in storage.

Contact:  Steve Burris  
Address:  3297-B Pacific Ave.  
          Charleston, SC 29418  
Phone:  1-877-252-6396  
Fax:  843-377-0412  
Website:  http://www.petroleumrecoveryservices.com

COMPANY PRODUCT’S PAGE

SERVICES - Tank inspection, fuel sampling, in-tank video, tank cleaning, fuel filtration, inhibitor blending, administration of our Fuel Quality Assurance Program and general environmental consultation. Third party laboratory analysis and tank tightness testing also available.

We use a three stage filtration system including gross particulate removal, fine particulate removal and water removal, with high volume flow rate and simultaneous cleaning of tank wall and fuel.

CURRENT MARKETS include government agencies, hospitals, military installations, and telecommunications, municipal and marine facilities.
Power Efficiency Corporation’s **Power Genius™** combines one of the best soft starts in the industry with NASA-inspired technology to reduce power consumption of AC induction motors working in constant speed/variable load applications. Electric motors are designed to deliver full performance under maximum load. When they operate at less than full load, they consume more energy than needed to maintain full RPM. That’s expensive – and now it’s unnecessary!

Electronic circuits in the **Power Genius™** constantly monitor the workload of the motor. Using patented technology, these circuits read and adjust the voltage and amperage waveforms to supply the precise amount of power required to maintain the motor at full RPM. Imagine a device that reduces power when a motor is idling or lightly loaded and then instantly increases current as loads increase – all with no decrease in performance! **Most applications cut energy use by 20-40%. Paybacks are usually 1-3 years depending on duty cycles, load factors and power rates.**

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Power Efficiency Corporation’s **Power Genius™** combines one of the best soft starts in the industry with NASA-inspired technology to reduce power consumption of AC induction motors working in constant speed/variable load applications. Electric motors are designed to deliver full performance under maximum load. That’s expensive – and now it’s unnecessary!

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Star Power

Give a best performance in managing energy costs and usage

Reach your energy efficiency and reliability goals and achieve celebrity status with an enterprise energy management system from Power Measurement. ION® software delivers powerful analytics to help you benchmark consumption, cut costs and gain "green" ratings. Affordably automate sub-metering to eliminate labor and improve billing accuracy. Avoid power problems that can cause equipment failures or disruptions. Offer all your customers the energy intelligence needed to drive best practices. Power Measurement has the proven technology and turnkey services to make you and your properties the next big sensation. Call us to find out more.

www.pwrm.com
1-866-466-7627
POWER MEASUREMENT

Power Measurement is a leading provider of enterprise energy management systems for energy suppliers and consumers worldwide. A pioneer in the field of energy information and control, the company continues to leverage the interplay between computer, communications and energy technologies. Power Measurement pioneered the revolution from analog to digital metering by introducing the world’s first microprocessor-based three-phase power and energy meter in 1984, and has since continued to define the leading edge.

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ION technology from Power Measurement meets the energy management needs of energy suppliers, service providers and consumers by helping you take charge of the cost and quality of your energy. ION systems provide savings through increased efficiency, reduced energy costs and avoided downtime. ION systems reduce reams of data to succinct, useful information, reducing network traffic and bandwidth requirements. Uniquely modular ION systems allow systems to grow economically while matching your exact need, making them easy to learn and use. This flexibility also helps your system adapt to changing needs, avoiding obsolescence and maintaining the value of your investment.
Power Monitors Inc. based in Harrisonburg, VA is the leading manufacturer of portable power and power quality recording equipment. We have products designed for Utility, Industrial, Commercial and Institutional use. We supply custom software to program, download and analyze your recordings. PMI has 24/7 free technical support.

Contact: Brenden Updyke  
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Phone: 540-434-4120 / 800-296-4120  
Fax: 540-434-9430  
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Website: http://www.powermonitors.com

PMI will be displaying their portable power & power quality recorders including the Eagle series which is available in 1-2-3 & 4 V/A inputs. These recorders also record all power parameters, wave forms, THD & harmonics to the 51St. The Eagle series has Blue Tooth Wireless communication. PMI will also have their ViP+ series of rugged recorders on display.
Powersmiths is a company that designs and manufactures electrical system technologies for high performance sustainable buildings. Our products families include the GREEN transformer – an ultra-efficient distribution transformer that delivers low life cycle cost, dramatically lowering operating cost and improving power quality. Going beyond high efficiency, the GREEN Transformer is manufactured in a facility that is ISO14001 certified for low environmental impact during manufacturing, and ISO 9001 certified for quality. Another product is Cyberhawk-MPC, our innovative efficiency and power platform that makes continuous commissioning easy and provides valuable insight into transformer efficiency, energy usage & power quality data. It includes our STEP – Sustained Total Electrical Protection for surge and over voltage protection. These products are available integrated or as stand-alone products.

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Phone: 905-791-1493 x258
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Website: http://www.powersmiths.com

Powersmiths ESAVER Transformer
Powersmiths ESAVER “The Green Transformer” is an ultra-efficient distribution transformer that delivers low life cycle cost, dramatically lowering operating cost and improving power quality. Going beyond high efficiency, the GREEN Transformer is manufactured in a facility that is ISO14001 certified for low environmental impact during manufacturing, and ISO 9001 certified for quality.

Powersmiths CYBERHAWK-MPC
Cyberhawk-MPC provides protection from transients, overvoltages, sags & swells, with integrated power & energy monitoring. While monitoring the electrical network, it provides users with a portal into the electrical system over an Intranet/Internet connection using a standard IE Browser. A Cyberhawk-MPC is installed on the main transformer/distribution and connected to the Ethernet Network. Event logs may be set to record Power Quality anomalies including Sags and Swells. The user has WEB access to all the measured and monitored electrical parameters and to key system parameter logs for trend analysis.
POWRTECH: PowrTech sales engineers apply and sell equipment for large steam generation and process heating applications, including auxiliary systems. Burners, controls, analyzers, instrumentation, deaerators, feedwater systems, fuel handling systems, breaching and stacks are addressed as part of the system or separately. PowrTech engineers will guide you in the areas of emissions reduction, efficiency improvement, fuel changes, boiler replacement, design build boiler plants, controls integration, burner management, boiler commissioning, maintenance contracts, instrumentation, analyzer repairs, and emissions testing.

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COMPANY PRODUCT’S PAGE

Boiler Systems PowrTech Solutions provides Burners and Burner Management Systems from Coen, Watertube Boilers from Victory Energy, High Temperature Hot Water Boilers from International Boiler Inc., as well as Spray and Tray Deaerators from Stickle Steam Specialities Inc. The Watertube Packaged Boilers from Victory Energy, are available in “A”, “O”, and “D” types up to 300,000 pph and up to 1000 psig, 1000F. In addition, PowrTech can supply the entire steam plant system including burner, controls, stacks, and fans, from Victory Energy.

Analytical Instruments PowrTech Solutions provides analytical instruments such as pressure, temperature and oxygen analyzers, including the Oxymitter 4000. This unique oxygen analyzer utilizes the Rosemount transmitter housing and electronics packaging right on the end of the probe. It comes with standard features such as field repairable probe cell, TC, heater and strut as well as HART communications.
Preso Meters is a fully integrated manufacturer of precision-engineered primary flow elements, serving the industrial, commercial and municipal markets for over 30 years. The Preso ThermoTrack Energy Flow Management System is a non-invasive meter that measures flow and temperature on supply and return water lines in commercial and industrial HVAC systems. The patented Ellipse® pitot tube offers energy savings, easy installation, and long-term repeatability in a variety of applications. Tested and proven in the field, flow laboratories and insurance underwriter agencies, it has become the choice of professionals. Other Preso products include the COIN® segmented wedge flow meter, and three unique versions of Venturi-type meters and inserts. Preso also manufactures the B+® and C+ metering and balancing valves for the HVAC industry, the PTTF clamp-on integral mount meter, a line of FM-approved fire pump gages, and many other accessories including flow transmitters and test kits. With this family of products, Preso can provide a flow meter for any process that can be measured with differential pressure technology, often at calibrated accuracy of better than ±1% of reading.

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Preso Meters use differential pressure and ultrasonic technologies. The Preso ThermoTrack® Energy Flow Management System is a non-invasive meter that measures flow and temperature on supply and return water lines in HVAC systems for pipe sizes ½” and larger. ThermoTrack combines transit time technology with energy measurement at an accuracy of ±1% and repeatability of 0.01% of reading. User-friendly configuration and clamp-on design offers easy installation, requiring no system shutdown. UltraLink™ software can administer an energy station for an entire building and includes real-time energy rate and temperature sampling, totalization, and meter status. Integral mount clamp-on systems also available in the PTTF model for pipe size ½” to 2”. Other Preso products utilize differential pressure and include products such as the patented Ellipse® pitot tube, which offers the greatest accuracy (± ¼%) of all flow sensors among its type and a turndown ratio of 14:1 with no vacuum effect. Its patented elliptical design with aerodynamic characteristics outperforms traditional devices, and overcomes loss of accuracy.
BUYER’S GUIDE

Public Energy Solutions is a leading nationwide energy services company providing energy-efficient lighting system designs and upgrades, curtailment services, base load reduction systems, peak load shaving, energy management systems, LED traffic signal upgrades, HVAC controls, motor controls, measurement and verification systems, investment grade energy audits, lighting maintenance, renewable energy technologies, and a comprehensive electrical contracting service. Public Energy Solutions' professional staff has years of experience working with rebate programs to insure the most cost effective installations for our customers.

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COMPANY PRODUCT’S PAGE

RAE Systems is a leading global developer and manufacturer of rapidly deployable, multi-sensor chemical detection monitors and networks for homeland security and industrial applications. In addition, RAE Systems offers a full line of portable single-sensor chemical and radiation detection products. RAE Systems' products enable the military and first responders such as firefighters, law enforcement and other emergency management personnel to detect and provide early warning of weapons of mass destruction and other hazardous materials.

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Fax: 408-752-0724
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Website: http://www.raesystems.com

COMPANY PRODUCT'S PAGE

ppbRAE Plus (featured to the left): The ppbRAE Plus is the most sensitive handheld VOC monitor.

AreaRAE (featured to the left): The RAE Systems' AreaRAE monitor is a one-to-five sensor wireless gas detector that includes a photoionization detector (PID) for measurement of VOCs.

EntryRAE (featured to the left): The EntryRAE is a 4-gas monitor, plus photoionization detector (PID). Reliable, easy to operate, and simple to calibrate, the EntryRAE delivers added protection without added complexity.
Racine Vortex manufactures vortex-shedding flow meters for accurate measurement of liquids, gases and steam. Vortex meters have no moving parts and are virtually maintenance-free when installed. Meters are offered in wafer, insertion and flange designs. Racine Vortex technology offers a high turndown ratio as well as high accuracy (±1% of reading). The meter is an excellent choice for refineries and industrial processing, as well as water supply and treatment applications. Gas and steam meters include HART communications protocol and optional hazardous area certification.

Racine vortex flow meters utilize ultrasonic technology to measure tiny vortices that form when media in the pipe move across a strut, or “bluff bar”. The number of vortices formed is directly proportional to flow rate, and the resulting product is a flow meter with high turndown ratio (up to 70:1) and high accuracy (+/- 1% of reading). Formerly part of J-Tec Associates, the Racine vortex meter has benefited from over two decades of research and development, today offering one of the smallest struts (and therefore lowest pressure drop) in a product of this type. With Smart electronics and HART communications, the Racine vortex flow meter is an excellent choice for process plants and refineries measuring gases and steam. With no moving parts and little or no maintenance required, the vortex flow meter is also an excellent choice for OEM companies working with water supply, quality or treatment equipment.
We are a dynamic energy efficiency company partnered with the U.S. Department of Energy's - Save Energy Now program. We carry a variety of proven cost effective products capable of immediately reducing energy usage costs to our customers. We offer complete customer satisfaction combined with some of the most technically advanced equipment to lower your energy consumption - Guaranteed! Resource Conservation Systems Innovations, LLC (RCSI) is a leading provider of energy saving products and technology-based solutions for the commercial, industrial, institutional, government and residential markets. With our corporate office in the Washington, DC, area and associates and distributors throughout the United States we strive to utilize our extensive array of capabilities to provide quality service and satisfaction to our clients and potential business partners. RCSI was founded on the belief in being grounded in technical expertise, provide cutting edge cost saving solutions and sound business practices.

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**COMPANY PRODUCT’S PAGE**

RCSI's mission is to provide quality service and satisfaction to its clients. In fulfilling its mission, RCSI adheres to a specific set of core values:

- Build and sustain trusting relationships with clients, associates, partners, and suppliers
- Focus on what we do best, while exploring and responding to new business opportunities
- Adhere to and promote the highest standards of conduct and social responsibility.
REHAU provides solutions for residential and commercial construction that enhance comfort and convenience, reduce energy costs, create healthy and safe environments, and address the need to conserve our finite resources. With our philosophy that “a sum is greater than its parts,” integrating our products and systems can optimize performance, minimize operating costs, and enhance the overall energy efficiency and sustainability. Delivering an economical source of energy largely independent of outdoor conditions, the RAUGEÔ™ geothermal probe and collector pipes harness the constant 50°-55°F from the ground into a closed circulation system. Integrated with our radiant heating, RAUGEÔ substantially reduces CO2 emission and results in energy savings of up to 40-50% compared to conventional forced air systems. PEX-a pipe provides much better resistance to punctual loading and crack growth and a special U-bend design eliminates leak concerns associated with welded joint designs. REHAU’s radiant heating system distributes heat uniformly throughout a room. As a non-forced-air system, radiant heat contributes to improved indoor air quality via the reduction of airborne dust and circulation of allergens and is quieter than conventional systems. PEX pipe helps reduce both overall system heat loss and condensation. Flexible and with a yield strength that allows it to absorb the noise associated with “water hammer,” PEX pipe also offers a quieter plumbing system than copper. With a streamlined design that reduces installation costs, our residential fire protection system integrates sprinklers with the plumbing system’s cold water line to promote safety and reliability. REHAU® Window and Door Systems are manufactured with high-quality vinyl profiles and are engineered to improve thermal efficiency, comfort, rigidity and visual appeal. The profiles are mold resistant, improving overall indoor air quality and are fully recyclable. Systems range from residential to institutional and commercial applications.

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REHAU provides solutions for residential and commercial construction that enhance comfort and convenience, reduce energy costs, create healthy and safe environments, and address the need to conserve our finite resources. With our philosophy that “a sum is greater than its parts,” integrating our products and systems can optimize performance, minimize operating costs, and enhance the overall energy efficiency and sustainability.
RealWinWin building value with energy efficiency RealWinWin helps building owners and managers find ways to earn above average returns by improving the energy efficiency of their properties. Our financial analysts, energy engineers, lease specialists and other experts help you find the most profitable energy efficiency upgrades to pursue. RealWinWin creates value for owner occupants and income-property owners alike. Each of our service offerings is powered by RealWinWin’s proprietary software. RealWinWin was founded on the idea that energy efficiency represents hidden value in buildings and we are dedicated to helping our clients identify and capture that value to boost their bottom lines. We designed our unique service offerings to solve energy problems that have long plagued the real estate market.

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RealWinWin building value with energy efficiency. Your one stop shop for rebates Rebate Administration is a turnkey solution for locating and capturing dollars for your energy and water efficiency improvements. We not only find the rebates for you but file for them as well, making sure you collect your rebate dollars. Prioritize your capital improvements Building Triage® provides a time-efficient and cost-effective approach to screening upgrade opportunities. This program combines a high-level review of building systems, utility cost intensity, and rebate availability helping owners target the properties and building systems that are the most worthy candidates for capital improvements. Capital improvements: who gets the savings? RealWinWin uses its NOI Builder® software to analyze energy efficiency upgrades to leased properties. It automates the complex calculations that allocate an energy efficiency upgrade’s costs and benefits between building owners and tenants.
Roberts-Gordon, LLC is an international manufacturer of warm air heating equipment, infrared heating systems as well as direct- and indirect-fired heating, cooling and ventilation systems and accessories for all. Headquartered in Buffalo for over 80 years, the company manufactures some of the best known brands in industrial and commercial heating under the trade names CORAYVAC®, ULTRAVAC™, VANTAGE®, CARIBE®, GORDONRAY®, BLACKHEAT™ and COMBAT®. With installations worldwide, ROBERTS GORDON® products are ideal for heating aircraft hangars; agricultural buildings; body shops; distribution centers; greenhouses; loading bays; machine shops; factories; recreational facilities; retail stores; showrooms; sports halls; vehicle workshops; warehouses and much more! ROBERTS GORDON® products have provided comfortable, economical and reliable heating solutions for a variety of satisfied customers throughout the world. For more information, contact 716.852.4400 or access the company’s website at www.rg-inc.com.

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Roberts-Gordon, an international manufacturer of warm air and infrared heating equipment, is the first infrared heating manufacturer to offer modulating heaters and modulating heating systems. ROBERTS GORDON® Modulating Products save building owners money on fuel bills because modulation adjusts the system to match lower heat requirements that occur for most of the heating season. Matching system input to the building heat requirement results in longer heater run times as opposed to frequent heater cycling, which translates into fuel savings. The company’s ULTRAVAC™ Controls modulate CORAYVAC® burners-in-series by varying vacuum and adjusting gas and combustion air equally to ensure proper combustion. The VANTAGE® MODULATING heater provides increased fuel efficiency by modulation, resulting in efficient and optimum combustion throughout the full range of burner inputs. In addition to modulating infrared heating products, Roberts-Gordon also offers the VANTAGE® line of gas-fired, infrared heaters which include: the field-proven VANTAGE® II, the twin fire VANTAGE® TF, the harsh environment VANTAGE® HE and the negative pressure VANTAGE® NP. The company also manufactures the economical GORDONRAY® BH and the factory-assembled CARIBE®.
RS Services, Inc., with offices in Oklahoma and Connecticut, provides full service electrical contracting and energy conservation services. RS Services offers its customers an experienced team of individuals specializing in the installation and design of electrical systems, energy management systems, telecommunications networks, and the retrofitting of existing control panels, lighting systems, and alarm systems. The principal energy management product is the EnerLume | EM™. It is a UL listed controller capable of significantly reducing the energy consumption of new and existing fluorescent lighting systems. RS Services has an established business in the electrical and energy management field and currently provides energy management services to several large corporations and multi-store customers throughout the United States.

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The EnerLume | EM™ is an energy saving device for use with new or existing fluorescent lighting systems. By conditioning the incoming power wave it reduces electrical consumption with negligible lumen loss at savings up to 15%. Greater savings, up to 30%, are possible with some minor lumen loss. Installation is accomplished by “splicing” the EnerLume | EM™ in between the supply feeder and the lighting panel. The EnerLume | EM™ conditions the power for all of the fluorescent lights controlled by the lighting panel. It is suitable for three phase or single phase systems. The greatest savings are achieved when the EnerLume | EM™ is used with T8 ballasts. It is compatible with generators. The EnerLume | EM™ is controlled with the EnerLume | EM™ Energy Manager Software provided. This software is compatible with the Windows® family of operating systems. The software controls each phase independently and allows the user to program lighting changes as timed events and/or turn all lights associated with each of the three phases on and off. For safety, the EnerLume | EM™ is UL and CUL listed.
Save More Resources, Inc. (SMR) is a leader in the development of utility management software, resource conservation management programs, and outsourcing utility services. Our software applications, combined with value-added support and expertise, can drive down utility consumption and the cost of electricity, gas, water, sewer, refuse, and recycling. SMR’s objective is to help clients save money and conserve energy. With over 17 years of software development experience, SMR has created the tools you need for effective utility management.

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**COMPANY PRODUCT’S PAGE**

The Utility Manager™ (UM) Integrated Software Solution provides PC-, client server-, or Internet-based solutions for managing utility consumption and costs. SMR’s utility management software and services can track and benchmark natural gas, electricity, water, sewer, recycling, waste, and other services from multiple sites and utility companies. These applications act as analytical and diagnostic tools that help customers identify savings opportunities and manage their costs and consumption from contract to utility usage to payment.
BUYER’S GUIDE

SDI EQUIPMENT LEASING is a division of SYNERGISTIC DYNAMICS, INC., a professional services firm that has been serving the energy and maritime industries since 1983.

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Equipment leasing and financing for business, industry and non-federal government agencies and authorities.

Preparation of application proposals for DOE Title XVII loan guarantees.

Business and financial planning; market research and feasibility studies.

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**COMPANY PRODUCT’S PAGE**

Sempra Energy Solutions -- a subsidiary of Sempra Global, the umbrella for Sempra’s growth businesses -- offers commercial, industrial, institutional, and federal businesses outsourcing services that help them drive efficiencies in the ever-changing energy environment. Sempra, which maintains solid investment-grade credit ratings, is a San Diego-based Fortune 500 energy services holding company with 2003 revenues of approximately $8 billion. The Sempra companies’ nearly 13,000 employees serve more than 9 million customers in the United States, Europe, Canada, Mexico, South America and Asia.

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COMPANY PRODUCT’S PAGE

Sempra Energy Solutions provides its customers with an integrated mix of services. These services include facility management, supply and price-risk management, energy efficiency, energy-asset management, infrastructure ownership, and information and billing services.
Sensor Switch has become a leader in manufacturing and technology development of Passive Infrared Occupancy Sensors, Daylight Control Devices, and most recently, Passive Dual Technology Sensors. Sensor Switch can proudly say that all its products are Made In America; the company's production takes place entirely at its completely integrated manufacturing facility in Connecticut. Sensor Switch products have been saving time and money all over the country, in places like Uniroyal World Headquarters, Stanley World Headquarters, Dun & Bradstreet Dunscenter, Barnett Bank of Florida, major Federal facilities and hospitals in Los Angeles, San Francisco, Chicago, Billings, Austin, New York, and other major cities throughout the U.S., Canada, and Mexico, companies like Lebouef-Lamb in New York City with over 1,000 devices and entire school districts like Madison, Connecticut, all with virtually no failures or problems. There really is "no known equal" to Sensor Switch - its products and services are simply the best!

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U.S.- manufactured Sensor Switch products are competitively priced - both in the U.S. and on the International stage. Currently, Sensor Switch offers unique, innovative products to meet the needs of almost every lighting control application. Our product line is divided into four fields dependent on the physical structure of the installation site. Our line of Wall Switches, Line voltage, Low voltage and RR-7 built sensors are sure to fit all your needs.
We specialize in National Energy Procurement and Management. We do only one thing, and we do it well! Seven - Utility Management Consultants, Ltd. is the only Utility Consulting firm that is a member of the Better Business Bureau. With electricity and natural gas deregulation, you now have the power to choose your energy suppliers. There are so many suppliers to choose from, all claiming to be the best:

Which Supplier do you choose?

How do you compare confusing offers?

How do you manage this major expense?

We have the top qualifications in the field of procurement. You can benefit from our Energy Consulting firm's expertise in cost reduction. With over 1000 industrial and business clients, we are highly qualified to be your Outsourced Energy Manager. Outsource your utility negotiations to our energy consultants. Let us ensure that your pricing is at or below current market conditions! We do all of the legwork, and present our findings in an executive summary format. Best of all, our fee is paid by the Energy Company!

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We specialize in National Energy Procurement and Management. We do only one thing, and we do it well! Seven - Utility Management Consultants, Ltd. is the only Utility Consulting firm that is a member of the Better Business Bureau. With electricity and natural gas deregulation, you now have the power to choose your energy suppliers.
Siemens Energy & Automation, Inc. is one of Siemens’ operating companies in the U.S. Headquartered in Alpharetta, Georgia, Siemens Energy and Automation manufactures and markets one of the world’s broadest ranges of electrical and electronic products, systems and services to industrial and construction market customers. Its technologies range from circuit protection and energy management systems to process control, industrial software and totally integrated automation solutions. The company also has expertise in systems integration, technical services and turnkey industrial systems. Renowned for technological superiority in non-intrusive flow measurement, the Siemens Center of Competence for ultrasonic flowmeters is in Hauppauge, New York. Siemens supplies equipment to virtually every industry, including HVAC, energy and power. Unlike other types of flowometers, Siemens clamp-on ultrasonic flowmeters can be installed outside the pipe, without process shutdown, thereby eliminating the need to cut into the pipe. In addition to superior performance, savings are provided in installation, operation, maintenance and calibration. Siemens energy meters are ideal for sub-metering thermal energy and immediate analysis of energy efficiency. A real time Coefficient of Performance (COP) can be easily obtained for chilled water, plant and condenser water optimization and chiller, boiler plant, heat exchanger, cooling tower and pump efficiency.

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Website: http://www.siemens.com

Siemens Energy & Automation is a worldwide supplier of clamp-on ultrasonic flowmeters for both gas and liquid. Siemens has one of the largest installed bases of clamp-on ultrasonic flowmeters in the world and is the worldwide leader in this technology. Renowned for technological superiority in non-intrusive flow measurement, the Siemens Center of Competence for ultrasonic flowmeters is in Hauppauge, New York. Siemens supplies equipment to virtually every industry, including oil & gas, HVAC, energy, power, water and wastewater treatment. Both permanent and portable meters are available for full pipe applications. Unlike other types of flowmeters, Siemens clamp-on ultrasonic flowmeters can be installed outside the pipe, without process shutdown, thereby eliminating the need to cut into the pipe. In addition to superior performance, Siemens ultrasonic flowmeters also provide great savings in installation, operation, maintenance and calibration.
Sidel Systems has been installing its flue gas condensers for over 20 years. This equipment is designed to last, as all units installed as far as the company knows are still in operation, and no repairs have had to be made to any Sidel SRU 2 MBTU and up flue gas condensers as of yet.

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COMPANY PRODUCT'S PAGE

The Sidel SRU Flue Gas Condenser is designed to recover almost all of the waste energy going up the chimney's of natural gas and propane fired boilers and appliances. Our goal is to increase the boiler room or appliances energy efficiency to over 90%.

Simple technology. No moving parts. No maintenance. Self cleaning flue gas side.

BUYER’S GUIDE

Smart Energy Control Systems consist of three components:

Solid-state energy controller with microprocessor using patented “recovery-time” algorithms
Wireless motion and infrared occupancy sensor using digital signal processing
Radio communications network

These components work together to create a sophisticated energy control system that follows real-time room occupancy patterns. When an occupant leaves the room the occupancy sensor sends a “non-occupied” status to the controller. The controller will then relax the heating or cooling system while the room is vacant – even if it is just for an hour. When the occupant enters the room again it will return the temperature to the comfort setting within minutes (this is the “recovery time” and is determined at installation by the property’s management). The SmartSystem constantly performs scientific calculations while drifting the temperature during non-occupied status so that it will always be able to return the room temperature to the comfort setting - within the recovery time - upon the occupant’s return. This patented drift/drive function guarantees occupant comfort while saving valuable energy. SmartSystems average 30% - 50% HVAC runtime savings.

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SmartSystems have many advantages when compared to competing products. The patented technology allows SmartSystems to calculate exactly what temperature to allow the room temperature to drift while ensuring recovery time window is achieved. The competing products all are based on fixed set-back technology. Depending on various factors, ranging from what the outside temperature is, to if the room is on the sunny side of the building, to the efficiency of the air-conditioning unit, each room will require different amounts of heating/cooling to bring it back to the desired temperature within the recovery time once the occupant returns. With SmartSystems the calculations are done by the system to ensure each room’s HVAC unit will be run most efficiently to assure that the guest is perfectly comfortable within the recovery time. The microprocessor within the energy controller tracks energy savings statistics and HVAC system efficiency. This data may be downloaded into a laptop computer to produce a report that will indicate the number of runtime hours saved per day, translated into kilowatt hours saved –reporting estimated dollar amount saved.
BUYER’S GUIDE

SG America is a subsidiary of Seibu Giken Co., Ltd of Fukuoka, Japan. Siebu Giken is a leading supplier of dehumidification, heat recovery and VOC concentration components for treatment of air. SG America provides sales and service for the SG Group in North and South America.

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REDUCE YOUR VENTILATION LOAD BY UP TO 75% Pretreat the outside air (OA) with Seibu Giken's (SG) Hi-Panex enthalpy heat transfer wheels. SG Hi-Panex heat wheels use the conditioned air being exhausted from the building as the heat sink to condition the OA. Heat wheels reduce the OA temperature and humidity in warm/hot climates or heat and humidify OA in cold climates. SG Hi-Panex heat wheels reduce the energy requirement compared to the mechanical equipment required for cooling, dehumidifying, heating or humidifying air. This reduces equipment first cost and life-time energy requirements for your project.

SG Hi-Panex heat wheels are a “green” technology which contribute to environmental sustainability and adds points to the LEED calculations. SG Hi-Panex heat wheels require no liquids or gases to perform the heat exchange and use a safe non-toxic desiccant. The heat transfer matrix consists of aluminum substrate, which is corrugated into flutes and an innovative ion-exchange resin. The ion power of the SG resin co-adsorbs and transfers less indoor air pollutants compared to traditional desiccants including silica gel, 4A and even 3A molecular sieves. SG Hi-Panex heat wheels are available in cassettes for up to 70,000 scfm in a single unit.
Sierra Instruments, Inc. is a leading manufacturer of Mass Flow Meters and Controllers for gases. Since 1973 Sierra has provided real-world solutions for customers around the globe – giving them the competitive advantage they need to remain leaders in their markets. With a broad range of cost effective and robust mass flow meter (MFM) and mass flow controller (MFC) offerings in various flow ranges, surface finishes, mechanical interfaces and electrical connections, Sierra has a solution to address almost any application. And with an installed base of over 200,000 instruments, offices on three continents and agents in 46 countries, we have the experience to satisfy almost any requirement.

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Sierra Instruments’ Innova-Mass Multivariable Vortex Mass Flow Meters are a cost-effective solution for steam measurement, energy monitoring, and natural gas metering applications. They measure flow, temperature, and pressure with a single device to improve measurement accuracy, reduce line penetrations, and lower installation and maintenance costs. Smart electronics permit field-configuration of all measurement parameters.
Sigma Capital Group is a boutique investment bank, providing advisory and representative investment banking services to distinctive, well-managed growth companies in its targeted industry sectors.

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We provide advisory and representative investment banking services to well-managed companies, with distinctive product or service offerings in the following industry sectors:

- Energy
- Destination Resorts and Real Estate
- Telecommunications
- Information technology
- Aerospace & advanced materials
Solar Turbines Incorporated, a wholly owned subsidiary of Caterpillar Inc., is headquartered in San Diego, California. Founded in 1927, Solar Turbines is a world leader in the design and manufacturing of industrial gas turbine-driven generator set packages in the 1-to-20 MW range. Solar has evolved and grown into a one billion dollar-plus company at the forefront of the industrial gas turbine business and in 1998 was a winner of the Malcolm Baldrige National Quality Award. Solar's generator sets are used for industrial power generation applications such as cogeneration, base-load electricity or emergency power for a wide variety of facilities including industrial/processing facilities, buildings and institutions, and distributed power plants. Our generator packages are also used in a variety of oil and gas applications such as providing power for offshore production platforms. The 11,800 Solar turbines in 92 countries comprise the largest fleet of industrial turbines from any manufacturer in their size range. Our turbines have over one billion operating hours on land and offshore.

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Solar offers a complete solution – from engineering specification to asset management - for your 1-50 MW power needs. We can help with your cogeneration, base-load electricity, dispersed power, combined-cycle, peak shaving, district heating/cooling, and standby power. Asset management services can be offered providing an entire management program including on-site and balance-of-plant services. Or develop a life-cycle partnership with an Energy Service Contract and focus on your core business, experience better energy plant availability and lower your energy costs.
Stellar Energy. Renewable energy solutions...designed for the future. Renewable energy is the future, and Stellar helps American businesses, universities, municipalities, farms and residential complexes integrate solar and wind power generation into existing operations and new construction. With attractive rebates and tax incentives, the investment in energy independence is easier than ever.

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Stellar Energy offers the following services, managing projects from the concept stage through to completion:
- Project Management
- System Design
- Project Budgeting
- Rebate Processing
- Leasing / Financing Options
SunTechnics is one of the worldwide leading suppliers of customized systems for the utilization of renewable energy. We are dynamically pushing ahead with international growth, showing more than 600 employees and presence in 14 countries worldwide. Whether dealing with photovoltaics, solar thermal energy conversion, bio-energy, wind power or hybrid systems, extensive engineering know-how has been acquired over more than 11 years through the construction of thousands of installations. This makes it possible to adapt the technology to the local conditions, and be able to offer system solution for individual needs. In the process, exact individual planning is as much a part of the range of products and services as is professional installation and service after the start-up phase.

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As a trusted leader in solar solutions, we are the only company to offer a unique energy guarantee on all of our systems. Our services include planning, permitting, system design and installation, rebate administration, financing, and system monitoring - everything you need to go solar.
The "Supers Club" is a 501(c)(3) technical society of multifamily building maintenance personnel, centered in NYC. Created at NYC College of Technology, it is run by officers elected by its dues-paying members from the ranks of the buildings' workforce. Monthly meetings (English and Spanish) and extra technical workshops, from boilers to solar roofs.

We are a Rebuild America Partner.

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The Supers Club has developed, since 1998, the format for administration, educational meetings and specific course materials.

Let us share these with you. Let us help you organize a similar group where you are.
Synergistic Dynamics, Inc. has been providing management, financial and technical consulting services to the energy and maritime industries since 1983. We are experts on Federal loan guarantee programs.

Our SDI Equipment Leasing division provides lease-purchase financing for industry and non-federal government agencies and authorities.

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Consulting services Federal loan guarantees Commercial equipment leasing Tax-exempt municipal lease-purchase financing
TAS Packaged Central Plants is an innovator and the worldwide leader in pre-engineered and factory manufactured highly efficient packaged central plants. Noted for exceptional construction quality and operational efficiency, TAS’ packaged plants are factory manufactured and shipped as fully enclosed systems, thereby minimizing field construction risk and expense.

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TAS Packaged Central Plants range from 400 to over 8000 tons, and provide customers with the flexibility to satisfy cooling needs with a compact, highly efficient and cost effective packaged systems designed to achieve optimal operating efficiency, energy cost savings, and speed of installation. TAS is the exclusive packager of Trane centrifugal & absorption chillers for commercial and district cooling, industrial process, CHP, and power generation industry applications. TAS has an ongoing commitment to continual quality improvement throughout all of its business segments and is ISO 9001:2000 certified.
Tecogen operates in the distributed generation market and is a leading manufacturer of reliable and efficient natural gas-fueled commercial and industrial cooling and cogeneration systems with heat recovery ability. Our systems are located in over 1,800 installations and have delivered over 30 million hours of total service at customer sites across the U.S. and abroad. Tecogen’s products are supported through its own network of field service and installation centers located throughout the U.S. Tecogen field technicians are exclusively dedicated to servicing and installing Tecogen equipment. All equipment is remotely monitored to ensure 24/7 coverage. Through 20 years of development, testing and commercial operation, Tecogen’s proven equipment has demonstrated unmatched levels of reliability, efficiency, environmental emissions and economic performance by any competing technology. The cogeneration units range from 60 kw to 75 kw and are typically bundled into multiple groups together. The cooling equipment ranges from 25 tons to 400 tons.

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TECOCHILL Natural Gas Engine Driven Chillers (25 Tons to 400 Tons) TECOGEN Natural Gas Engine Driven Cogeneration Modules (65 kW to 75 kW)
New Thermo Inc., is the exclusive worldwide distributor of the patented Thermonomics® brand ERT (Efficiency Restorative Technology). The company officers consist of business owners in the trades, an energy specialist and an A/C, Refrigeration technician in the business for over 25 years. We believe that this technology, with a history of over 10 years in the marketplace, is at the leading edge of energy saving ideas for companies that have a lot of A/C and or Refrigeration usage. There is no other product that can solve oil build-up and oil migration problems as inexpensively and non-invasively as this technology. Solve the oil migration problem and you solve the year after year efficiency degradation where the effect is a gradual increase in kwh each year to achieve the same temp. set points. With the cost/kwh going up more than ever, the solution to controlling the energy costs of this equipment is Thermonomics®.

Contact:  Thermonomics Sales  
Address:  5147 Quincy St.  
           Hudsonville, MI 49426  
Phone:  (616) 669-7261  
Fax:  (616) 669-7265  
Website:  http://www.thermonomics.net

The internal parts of an air conditioning unit, especially the condenser and evaporator, are designed to transfer heat. At the molecular level metals exist as crystals, regularly shaped units arranged in an ordered recurring pattern called a space lattice or grain boundary. Oil migration and other chemicals form an insulated layer and hinder the heat transfer capabilities of the evaporator and the condenser.

Over time this stagnant oil film buildup causes increased maintenance costs and considerable reduction in efficiency. When Thermonomics® is introduced into the system its highly conductive and electromagnetic molecules embed themselves into the space lattice of the metal thus filling the grain boundary and stabilizing the metal surface. This molecular polarization will displace the isolative layer of non-polarized molecules and will not allow the oil buildup to reform.

The result is a surface free of stagnant oil hindering the heat transfer rate of the metal. Thermonomics® molecules greatly increase the heat transfer rate through electromagnetic heat propagation. Thermonomics® reduces friction in the flow of the refrigerant. The increased efficiency and increased life of the system result in high dollar savings.
Texas Energy Products is a recognized leader in the design and installation of energy efficient lighting systems. We have installed more than 300 energy efficient lighting systems in different facility types across the country, and continue to offer our customers the best lighting solutions for their buildings. Texas Energy Products has helped many facility owners lower operating costs, reduce maintenance expense, increase property value, and improve tenant satisfaction. We can offer customers quick paybacks and shared savings financing options.

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Fluorescent High-bays: Reasons to use Fluorescent High-bays to replace your Metal Halide, Mercury Vapor, or High Pressure Sodium Lights:

- 50% more efficient than other HID fixtures
- Emit more lumens
- Depreciates only 7% and lasts 20% longer (HID lamps depreciate up to 30% with 20% less life)
- Less expensive to operate and maintain and easy to replace
- Quick payback (less than 2 years)
Thermax, a US $300 Million group, is a leading manufacturer of Absorption Chillers with thousands of running installations and over 20 years experience with the technology. Unlike most other Absorption manufacturers, Thermax exclusively focuses on the Absorption chillers and does not make electrical chillers. Hence, the organization is completely committed to Gas Cooling and Indirect fired Absorption chiller focusing all its resources and R&D dollars to the technology. This has resulted in Thermax supplying crystallization free design of Absorption chiller making them the most reliable, best in class, highest COP and lowest first cost chillers in the market.

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Website:  http://www.thermax-usa.com

Thermax Absorption chillers boast of COPs higher than most, under ARI conditions. The latest version of chillers are crystallization free and this along with the DLP grade low oxygen copper/CuNi tubes provide the highest reliability of operation. The Gas/Oil fired chiller-Heaters allow simultaneous generation of hot water, with the temperature of hot water (&/or heating water) as high as 203 DegF.
Trane is a worldwide supplier of heating, ventilating, air conditioning and building management equipment and systems for residential, commercial and industrial building sectors. Known for world-class quality, we provide indoor environmental solutions for new construction and existing buildings. We have offices, service operations and manufacturing facilities around the world, all networked to provide local support with capabilities in areas such as engineering expertise, application assistance, service and parts, and training.

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Trane offers a broad variety of chiller solutions including absorption, gas-engine driven and electric chillers and ice storage systems.
United Solar Ovonic, building on technology invented and pioneered by ECD Ovonics, is the world leader in thin-film amorphous photovoltaics. Its 50 megawatt production equipment is the world’s largest and most advanced machine for the manufacture of thin-film amorphous silicon alloy solar cells and related products. UNI-SOLAR® solar cells are lightweight, rugged and flexible, and are ideal as building-integrated photovoltaic roofing systems for residential and industrial customers. ECD Ovonics and United Solar Ovonic hold the basic patents covering the continuous roll-to-roll manufacturing of thin-film amorphous silicon alloy multi-junction solar cells and related products.

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USA Technologies is a recognized leader in energy management energy-control technologies for vending machines, commercial glass-front coolers and a variety of electronic equipment.

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Website:  http://www.usatech.com

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USA Technologies' VendingMiser energy controller for vending machines reduces electricity use by 46% on average and can help existing machines perform to ENERGY STAR specification levels. Other products that produce similar results include: VM2iQ for vending machines; CoolerMiser for glass-front coolers; SnackMiser for snack machines; and PlugMiser for plug-in equipment such as video arcade games, task lights and more. Many utility rebates are available; GSA Contractor #GS-35F-0031R.
UTC Power, a division of United Technologies Corp (NYSE:UTX), is a single-source provider of clean, on-site power solutions that include the PureComfortTM, PureThermalTM, PureCellTM, and PureCycleTM systems. These integrated systems are designed to maximize power efficiency and minimize energy costs, for co-generation and Combined Heat and Power (CHP) applications. Featuring ultra low emissions and few moving parts, they are environmentally friendly and reliable, and allow users to generate electricity on-site to meet diverse energy needs, including; base load electricity, peak shaving, space cooling or heating, and industrial hot water.

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**PureCell™ Assured Power Solutions** are ultra-clean and quiet fuel cells, providing up to 200kW of uninterrupted electrical power and heat recovery for space heating and hot water. UTC Power manufacturers the PureCell™ 200 and offers related services, providing customers with a single-source solution for fuel cell power. Since 1991, UTC Power has delivered more than 275 power plants to customers in 19 countries on five continents, operating for over 6 million hours.

**PureComfort™ Cooling, Heating and Power Solutions** UTC Power provides and services integrated CHP solutions based upon microturbines, which generate electricity on-site while at the same time recovering the exhaust energy to provide space cooling, heating and hot water. This highly efficient system provides the lowest cost energy with the lowest environmental impact, when compared to traditional utility power alone. One Combined Cooling Heat and Power (CCHP) system can reduce nitrogen oxide emissions by more than 10,000 pounds every year - the equivalent of removing about 250 passenger cars from US roadways.
V-Kool 70™ clear applied window film reduces solar heat and ultraviolet radiation without significantly reducing visible light or changing the appearance of existing glass. V-Kool clear applied film for windows blocks unwanted heat better than many tinted or mirrored films.

V-Kool is installed by professional installers at an installed per square foot cost of between $9 and $12 depending on the size and difficulty of the job.

V-Kool is reducing the use of air conditioning and energy in thousands of homes and in such landmark buildings as the former headquarters of Montgomery Ward in Chicago, the American Institute of Architects’ building in Washington and on the campus of Stanford University.

To find a V-Kool dealer/installer near you call 800 217-7046.

V-Kool, Inc., Houston, TX, is a sales and marketing distribution company of spectrally selective applied films for architectural, automotive and specialized vehicular applications. For information visit V-Kool, Inc., at www.v-kool-usa.com.

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Website: http://www.v-kool-usa.com

V-Kool’s window films solve all window overheating problems. Depending on a window’s exposure to solar energy and requirements for transparency, V-Kool films can maximize heat rejection or visible light transmission. Even maximum heat rejection and high light transmission are available from V-Kool in a clear, colorless and non-reflective film.

Distributors: Dealerships Available
About Verdiem:

Verdiem is the leading developer of power management software for PC networks. Verdiem’s Surveyor software provides measurable energy and cost savings, network-level control over PC and monitor power settings, easy implementation and a rapid payback. Surveyor lowers operating costs by $15 to $40 per PC annually, and is an effective way to reduce carbon dioxide emissions that cause global warming. Verdiem is an EPA Energy Star partner and is a Department of Energy Rebuild America Premier Partner. Verdiem is based in Seattle, Washington. For more information, visit www.verdiem.com

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SURVEYOR is a comprehensive power-management solution for networked PCs. It enables IT administrators to reduce per-PC operating costs by $15 to $40 annually (depending on local electricity rates) by reducing energy consumption, while it also enhances network security and improves the success rate of network maintenance tasks by ensuring that PCs are accessible when IT needs them to be. With the overwhelming evidence that the carbon dioxide (CO2) generated while producing electricity is a leading cause of global warming, organizations are taking the initiative to reduce CO2 emissions by conserving energy. According to the Department of Energy, up to two thirds of electricity used by computers is wasted simply because most PCs are running at full power when no user is present. By using SURVEYOR to automatically put PCs into low power states when they are not in use, you have significant cost savings, plus you can save additional energy costs during “peak demand” periods, and reduce facility-cooling costs – all without affecting user productivity. Installing SURVEYOR is a simple, nearly effortless way for any organization to meet its mandate for sustainability and be a “green” environmentally friendly organization. Call us at 1-866-VERDIEM or e-mail us at sales@verdiem.com for more information.
As a manufacturer of motion sensors for industrial and commercial lighting, Viewpoint Electronics Corporation designed all their sensors to minimize operational and installation costs while maximizing the flexibility of the controlled lighting project. Whether the lighting project is HID or Fluorescent, electronic or magnetic ballast, zoned or sensor-per-fixture architecture; Viewpoint Electronics makes a product to fit your needs. Viewpoint sensors can also be integrated with photocells, fire alarms, or utility-directed demand side management (DSM) devices. With operations based in Indianapolis, IN, and its manufacturing facility nearby, Viewpoint Electronics is proud to say it is “Made in the USA.”

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Indianapolis, IN 46278  
**Phone:** 317.410.4649  
**Fax:** 714.300.0200  
**Email:** contact@viewpointelectronics.com  
**Website:** [http://www.viewpointelectronics.com](http://www.viewpointelectronics.com)

The entire line of sensors from Viewpoint Electronics incorporates several unique features, all of which are contained within a single injection-molded UL-approved enclosure. This enclosure was designed from the start to contain the sensor, the power supply, and the switching device. All Viewpoint sensors feature a proprietary power supply design that eliminates installation errors and are compatible with various line voltages without transformer taps or jumper wires. All Viewpoint sensors are microprocessor-based and offer built-in testing features to save valuable installation and maintenance costs. Fiber optic networking is an optional feature available on all Viewpoint sensors. The most recent addition to the product line is a motion sensor targeted at controlling the new generation of electronic HID ballasts. In addition to its ability to step-dim the HID to 50% or less, this sensor (PIP-300EB) can be software programmed in the field to shut itself off after one hour of inactivity.
Wärtsilä North America is part of Helsinki, Finland-based Wärtsilä Corporation, a global network for Wärtsilä products, spare parts and services for the company’s three business units: Power Plants, Ship Power and Service. Wärtsilä is a leading provider of Power Plants, operation and lifetime care services in decentralized power generation. Wärtsilä North America provides complete turnkey power plants ranging from 5 to 300 MW in gas, diesel and biofuel power plants. Wärtsilä also supplies comprehensive compression and pumping systems, supported by its sales and service network of 300 persons throughout the North American region.

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Dispersed Generation Plants. A pre-engineered modular power system for plants up to 300 MW. A decentralized plant designed to operate with the transmission grid when demand for energy is highest, and strategically located downstream of transmission constraints.

CHP. A power plant recovering thermal heat for hot or chilled water, or steam. It burns most natural gases with extremely low emissions and high efficiency.

Floating and Stationary Base Load Power Plants. A power plant with multi-fuel capability, high efficiency, low emissions and long-term reliability, making

Mechanical Drives. Wärtsilä engines are coupled with reciprocating compressors for reliable solutions.
WaterFurnace International and WFI Commercial Solutions Group have been the product leaders in the ground source/water source industry for over 15 years. Our products are renewable and environmentally friendly and can save up to 75% on operational cost versus ordinary HVAC systems. WFI Commercial Solutions Group supplies high-efficiency geothermal, water-source forced air HVAC systems; chilled or heated water for fan coil, process, domestic and in-floor applications. Our current product offering ranges from ½ ton to 30 tons. These products set WFI Commercial Solutions Group apart from the competition giving WFI customers a clear advantage when promoting products cost-conscious consumers.

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WaterFurnace manufactures ground source heat pumps, which are sold by WFI Commercial Solutions Group for Commercial and Institutional applications. Properly designing and installing a ground source heat pump system for a commercial, industrial or institutional facility requires state-of-the-art equipment and people who are experts in their field.
BUYER’S GUIDE

Putting a stop to energy waste is our vision at Watt Stopper/Legrand. We make buildings and homes more energy efficient through lighting controls. With Watt Stopper/Legrand, you'll find everything you need to make your lighting controls project a success. No other company has a larger selection of lighting control products with unique, essential features and no other company is as exclusively dedicated to advancing lighting control technology as Watt Stopper/Legrand. Whether it's the choice of mounting styles, options for different load types, or the ability to integrate with a building automation system, we have the products to fit. Our comprehensive range of products is just the beginning. Our full range of tools and services are created to help you from the initial stage of design, to the first time an occupant enters a building. Expert, personal tech support and free design services, to field services for commissioning, our team of experts is available to assist you with all your lighting control needs. With them, you'll know your lighting control project will perform optimally and satisfy any guidelines required for code compliance or sustainability.

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COMPANY PRODUCT’S PAGE

Watt Stopper/Legrand has a lighting control solution for every building. Our lighting control panels combine the convenience of scheduled control with a range of control capabilities built on a foundation of low voltage, relay-based control; our occupancy sensors are packed with innovative features and options such as a choice of line or low voltage configurations, and multi-technology functionality; automatic daylighting controls harness the power of natural lighting; our DM bi-level controls make effective HID lighting control possible by switching lights from high to low; Miro, our complete line of wireless RF lighting controls, features one-touch whole house control, preset dimming, remote control of lighting, occupancy emulation and more. Let us make your lighting control projects easier with our comprehensive suite of educational resources and program initiatives. The on-line CAD resource center has more than 300 drag and drop drawings available; CodeSmart helps you quickly identify energy code control requirements and how to cost-effectively comply with them; GreenSense offers information and resources about sustainable building practices and strategies for enhancing your LEED projects; our Continuing Education Program allows you to earn professional learning credits; and our Best Practice Guides help you design the best lighting control solution for your unique application.
Western Energy Systems (WES) is GE Energy’s authorized distributor for Jenbacher gas engine systems throughout the western United States – California, Oregon, Alaska, and Hawaii. Focused exclusively on gaseous fueled engine and power generation systems, WES provides comprehensive application, sales engineering, systems integration and parts and service capabilities. As part of the Penn DDA/Penn Power Systems organization and Northeast Energy Systems, WES brings over 50 years experience in reciprocating engine power applications.

On a combined basis, Western Energy Systems and Northeast Energy Systems now represent the largest GE Energy Jenbacher distribution in North America. Western Energy Systems is currently operating from a facility housing sales, engineering, parts warehousing, and service operations in Brea, California, while Northeast Energy Systems is headquartered in Philadelphia, PA.

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Jenbacher, part of the GE Energy portfolio, has long been established as the world’s leading manufacturer of dedicated, built-for-purpose gaseous fueled engines. Jenbacher’s industry-leading position results from thousands of installations throughout the world. Practical experience gained since 1957 on a wide range of gaseous fuels enables Jenbacher to exceed competitive products on all critical-to-success application criterion.
BUYER’S GUIDE

Who We Are: Premier Industrial / Commercial Products and Service Supplier

What We Do: Support Infrastructure Processes / Equipment Usage and Control

Our Market: Industrial, Institutional, Federal, Commercial and Utility sectors

Our Divisions: Supply; Service and Technology; “Green” Energy; System Optimization

Our Process: Lean Process- Identifying, Developing, Implement, Verifying Performance

The Best Bio Mass Boiler System in The World. Alternative fuel boilers and cogeneration units up to 600HP. Totally, reliable, employing proven technology to utilize a variety of stock for fuel including wood, cellulose, rice hulls biological wastes, and more. With over 2700 in successful operation, the proof has been generating hot water, steam and electricity since 1972.

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COMPANY PRODUCT’S PAGE

The Best Bio Mass Boiler System in The World. Alternative fuel boilers and cogeneration units up to 600HP. Totally, reliable, employing proven technology to utilize a variety of stock for fuel including wood, cellulose, rice hulls biological wastes, and more. With over 2700 in successful operation, the proof has been generating hot water, steam and electricity since 1972.
BUYER’S GUIDE

Full service HVAC equipment manufacturer and supplier.

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Fax:       (717) 771 6820  
Email:    engineered.systems@york.com  
Website:  http://www.york.com/

COMPANY PRODUCT’S PAGE

Gas and Electric Powered Cooling Technologies

YIA= Single effect absorption chiller. This product is powered by low-pressure steam or hot water. This product is ideally suited to providing chilled water from a waste heat source such the engine jacket cooling system when using a reciprocating engine generator in a Cogeneration plant.

YPC = Double effect absorption chiller. This product is powered by medium pressure steam or can be directly fired with natural gas.

YB&G = Gas engine chiller. This product uses natural gas directly to provide chilled water for building cooling along with a source of high quality heat, which can be used for water heating.

YST = Steam turbine chiller. This product is powered by medium pressure steam. This product is ideally suited to provide chilled water from the exhaust of a gas turbine generator used in a Cogeneration plant.
2007 Buyer’s Guide Reservation Form

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