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Green Edge Systems, Inc. to Present its GreenGuard Family of Energy Saving, Temperature Monitoring and Predictive Maintenance Sensor Platform at CSNA

Green Edge Systems, Inc. presents its real time energy savings, Temperature Monitoring and Predictive Maintenance GreenGuard Sensor Platform at the California School Nutrition Exhibition (CSNA) , Palm Spring, CA January 18-19 January 2008

/24-7PressRelease/ - WOODLAND HILLS, CA, January 20, 2008 - Green Edge Systems, Inc, a trusted leader of real time energy savings, predictive maintenance and temperature monitoring solutions for School Services, Schools, Hospitals and Campuses, presents its Green Guard state -of- the- art hardware products, software and communication platforms in the California School Nutrition Association CSNA Exhibition Palm Spring Conference Center, January 18-19, 2008 , Booth #352

GreenGuard continuously monitors the savings and the actual energy and maintenance bills and helps deliver increased ROI, boosting savings with a continuous improvement approach.

The hardware products are comprised of a variety of powerline, wireless, wired and stand-alone low cost introductory products, making it affordable to any size campus. Two way communications allow automated control of devices in response to price, peak load shaving or demand reduction signals.

The software platform utilizes advanced business Intelligence (BI) tools that allow dynamic energy management, effective demand response, peak load shaving management, energy savings, predictive maintenance and temperature monitoring in one integrated system.

This platform allows implementation of demand response, peak shaving, Carbon-Trade and other future energy efficiency, energy savings and greenhouse gas incentive-based programs.

Initial energy and maintenance savings of over 20 percent, achieved by the basic system, allows its introduction into campuses, with savings that are much higher than the initial investment in its first year. The savings in following years remain with the customers. The communication and management platform allows the addition of any current and future energy saving systems as an additional module.

The GreenGuard wireless Zigbee sensors use Ember's chip and EmberZNet PRO networking software platform, which supports the ZigBee PRO Feature Set, to communicate with ZigBee-enabled devices.

The system interfaces the network with load control devices, enabling efficient management energy consumption during peak load demands, among its many other intelligent applications. The bi-directional system also continuously measures and displays active energy delivered , letting customers see where, when and how energy is being consumed. This helps customers actively participate in the conservation of energy and contribute to protecting the environment, while also managing their costs for power. http://www.ember.com/press_release.html?id=237

Ember's technology is integrated in smart meters that support time-of-use pricing, load profile data and other advanced features required for "Smart Grid" initiatives, such as California's Title 24 regulations aimed at modernizing the electric grid to reduce peak demand.

Ember's strength in home and building automation yielded another award in 2007, with its ZigBee technology platform being named the "Best New Wireless Product" at the BuilConn Conference in June. http://www.ember.com/press_release.html?id=192

The Green Guard wireless sensors communicate with these Smart meters and assure significant savings once these meters

are installed by the utilities.

According to a paper by The Brattle Group ("The Power of Five Percent," May 2007), best available technologies, like ZigBee, can help reduce peak electricity demand by at least five percent over the next few years. The paper goes on to say that this reduction could save consumers more than \$3 billion in annual electricity costs, and help reduce the \$50-\$100 billion in losses that businesses suffer each year due to power outages and brownouts.

Visitors at the conference will be able to view the dashboard software that monitors the energy savings, predictive maintenance, temperature monitoring and the various elements of the GreenGuard sensor platform.

Annual energy and maintenance savings of over 20% allows introduction of these systems into School Food Services with savings that are much higher than the initial investment in its first year. The savings in following years contribute to the profit of the school Food Services.

School Nutrition Going Green is not only helping the environment and student health by reducing Greenhouse gases in Schools; it adds significantly to the bottom line.

The GreenGuard sensor platform includes a family of state-of-the-art wireless sensors with the following features:

- Wireless Data logging
- Internal Relative Humidity/Temp sensors
- 4 recording inputs: 4-20mA, 0-1V, Pulse counter, PT100 2-wires, NTC, Thermocouple J, K and T , door sensors
- Dry contact in each wireless sensor

Other sensors in the GreenGuard family are:

- A wired logging device - ideal for smaller installations
- A low cost USB temperature recording device that allows 24/7 temperature monitoring at a cost per location with two measuring point of under \$200 per location
- Multiple input temperature recorder and refrigeration controller
- Multiple input temperature recorder, refrigeration, air conditioning and lighting controller

In multi location installations such as in school districts, a mixture of the above sensors can be installed, all managed through advanced dashboard application software.

To better understand the uniqueness of Green Edge Systems offerings, ask any provider of energy, maintenance and temperature monitoring solutions if they can provide the following GreenGuard capabilities:

- Monitoring and controlling of energy usage and saving, resulting in up to 20% energy savings.
- Immediate alerts when the refrigeration system is not working or malfunctioning.
- Prediction of compressor or other system failures with alerts to avoid critical damage, similar to the red warning light in your car before a critical engine failure. We provide the same type of alerts when compressors are about to fail, with no additional equipment. Would you buy a car without this feature? Can you afford buying a monitoring system for your refrigeration system without this feature?
- Immediate power outage alert with no additional equipment.
- Highly affordable - starting at under \$200 per location, provides 24/7 temperature recording, reporting and alerts.
- Wireless sensors that fully implement the Zigbee Mesh Networking Protocol -superior to Zigbee in a point-to-point mode which may fail with future network saturation.
- Bi-directional communication between the system and the sensors, allowing for seamless setting of sensors to new parameters such as immediate response on momentary door openings nights and weekends, different parameters of temperature settings for night and weekends, use of lower priced energy at night and more.
- Over-the-network firmware updates, eliminating the need for on-site technician.
- Calibration of the sensors over the network.
- Temperature readout on each sensor, gateway and repeater.
- Temperature and door opening samplings, customer-configurable, even once per minute or less, allowing for better control of food quality, alerts and more.
- Local alerts even when the network is down.
- Power backup on each sensor - sensors continue to collect data, even if battery fails or if power is out.
- Low cost repeaters to extend range of coverage.
- Multiple input sensors - more then 4 inputs per sensor.
- Every sensor has its own Dry Contact, allowing connectivity to a building/HVAC/energy management system. Detailed alerts from each sensors are provided even if the network in down.
- Data is never lost in a power outage and there is no need for uninterruptible power supply (UPS).

- Prevention of unnecessary defrost cycles.
- Monitoring food temperatures in addition to air temperatures.

Other features to consider for system selection appear in the Special PP&P Buyer's Guide: Wireless Temperature Monitoring, <http://www.pppmag.com/pp-p-december-2007/special-pp-p-buyers-guide-wireless-temperature-monit.html>

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The School Nutrition Association is highlighting the topic of School Nutrition Going Green as part of Green Schools in its January 2008 Magazine.

<http://www.schoolnutrition.org/SFN.aspx?id=54>

Here are some snapshot for the articles:

- * School nutrition operations need to join with the rest of the school district to conserve resources.
- * Schools build with green technologies can save money, enhance academic performances and improve employees' retention and health.
- * Even existing structures can be outfitted for greater energy efficiency.
- * Energy efficiency is good for the environment - and for your budget!
- * Foodservice kitchens use 2.5 times more energy that other commercial buildings.

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