

# Did You Know...

### Special Interest:

- MN bill signed to cut its energy consumption 25% by 2025
- Dimming your lights just 25% saves 20% in energy!
- If every U.S household installed one Lutron dimmer, we would reduce CO2 emissions equivalent to that from 370,000 cars

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## Changes in the Future

In 2007, Governor Tim Pawlenty signed a bill that establishes a goal for the state to cut its energy consumption 25% by 2025. The Next Generation Energy Act of 2007 requires utilities and electric associations to set an annual energy-savings goal equal to 1.5% of their retail energy sales. With this in mind, take a look at what the Senate is focusing on for the new energy bill provisions.

A few examples:

**Energy Efficiency:** the bill sets energy-efficiency standards for home appliances, heating and cooling systems, lights and residential boilers. It requires federal agencies to get at least 15% of their electricity from renewable sources by 2015 and to reduce oil consumption by 20%. It also requires government review of efficiency standards.

**Public Buildings:** The bill requires energy

efficiency in federal buildings, mandating a 20% reduction in operating expenses over five years through the use of more-efficient lights, heating and cooling. It also authorizes three demonstration projects that put “green building” techniques into practice.

*With Lutron you can save money and energy!*

**Dimming saves at work:** Lighting accounts for nearly 44% of electricity use in office buildings, more than heating or cooling systems.

**Dimming saves at home:** Lighting accounts for nearly 20% of the average home’s electricity bill.

**Dimming saves at school:** Lighting accounts for 56% of electricity use in education buildings.

## How Do Dimmers Save Energy?

When the light is off, no energy is being used. The longer the triac is off, the lower the light output, and the greater the energy savings.

Lutron Dimmers Pay for Themselves:		
Dimming the Lights	Saves electricity	Makes incandescent bulbs last longer
10%	10%	2 times longer
25%	20%	4 times longer
50%	40%	20 times longer
75%	60%	> 20 times longer

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*“Using demand responsive lighting can cut your peak demand electricity charges dramatically.”*

## Demand Response = Energy Savings Strategies:

Demand response is the ability to instantly reduce your energy consumption on demand, usually triggered by a signal or phone call from your power company. Electric utilities manage electricity demand closely when they operate near capacity. Many electric utilities offer rebates and lower electricity rates when customers agree to cut power usage on request. Because lighting accounts for the bulk of a commercial building’s annual electricity use and power cuts are disruptive,

dimnable lighting is a very attractive method for demand response.

The Lutron Quantum solution provides intelligent demand response capability by instantly dimming fixtures from their current light levels in any chosen space of your building. Quantum Q-Admin software implements demand response in 1% increments with the click of a mouse.

## Market in Focus: K-12



Schools require technology that creates and supports today’s dynamic, specialized learning environments. They also need sustainable solutions that reduce costs while delivering a top-tier educational facility. Lutron lighting control plays an important role in this pursuit because it enhances virtually every aspect of the educational environment while saving energy and supporting the community.

school, and you can read case studies and review the research.

Learn about Balance LC – the innovative new approach to classroom lighting that’s saving over 50% electricity and giving teachers the greatest level of control.

Visit [www.lutron.com/spotlight/k12](http://www.lutron.com/spotlight/k12) and learn about how lighting control will enhance your learning environment.

Stop by the Lutron K-12 website to see how lighting control improves the learning environment, saves energy, and helps support the community. You’ll see which products and solutions are best for each space in a

## Sophisticated control of natural light

The Sivoia QED™ (Quiet Electronic Drive) family of controllable shading products includes roller shades, Roman shades and drapery track systems. All systems operate with ultra-quiet precision, low-voltage drives and offer many options for fabrics and controls. Sivoia QED allows interior designers, architects, builders and homeowners to utilize a custom-built shading system with various configurations and fabrics that are suited to their specific application.

Features include:

- Installation in any space, new or retrofit

- Ultra-quiet operation (44 dbA at three feet)
- Precision movement – One touch control or individual or groups of drapery for fully-open, fully-closed or preset positions
- Integration with Lutron lighting control systems
- Remote control capability
- Easy programming and operation through electronic keypads
- Elegant keypads with backlit buttons and custom engraving

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*“We also work with the Hunter Douglas product & installers to integrate their window treatments into our control systems.”*

## G & N Repair & Technology

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We're on the Web!

*See us at:*

**[www.gnwireless.com](http://www.gnwireless.com)**

## Lighting & Security

Lutron HomeWorks can be a major part of your home security system. As you pull up to the house, no matter what hour, you can rest assured. Just touch your HomeWorks car visor remote and the lights at key entry points inside the house, as well as outside each entrance, turn on brightly.

Going on vacation? With Lutron it's amazing what a single button can do. When you leave for a trip, the "Away" button tells the system to replay your normal routine – turning lights

on and off, raising and lowering the shades, everything – as if you were still home.

Your safety and convenience are always important.

Even in the finest neighborhoods, safety and security should never be taken lightly. The same system features that allow you to turn on selected lights upon your arrival also allow you to turn on every light in the house in an emergency, making it easier for authorities to find your location.

## About Us...

G & N Repair & Technology has been in business since 1982. We are Licensed/Bonded and Insured. We are known as System Integrators, with factory training and continuing education in all areas of low voltage, including TV/DSS – Multi-room Audio/Video – Keypads, Touch Screens – Remotes allowing One Button Control of an unlimited amount of equipment. We can do Complete Networking or upgrades including Wireless options. We also have Phone Systems – Intercom/Doorbell Systems – Closed Circuit TV allowing your front door or driveway to be monitored on your TV or viewed remotely – Security Systems – Automation Control – Lighting Options – Motorized Window Treatment –

Temperature Control – Low Temperature Warnings – Motion Detection – Sump Pump Monitoring – Environmental Awareness – Driveway Sensors – Motorized Gate Controls and Central Vac. We realize that building or remodeling a house can be a very stressful time. Carpenters, Electricians, Plumbers and Landscapers are all coming to you for immediate decisions. At this point in time the main concern is to get the structure up, landscaping done and moved in. It isn't until the furniture is in and your ready to sit down, relax and enjoy the new surroundings that the realization hits, you have forgotten about the technology part of the house. That's why G & N Repair & Technology is there for you.