Home Energy Solutions

LUTRON®

save energy with Lutron™ ®

Welcome to Lutron.

Since 1961, we've been designing energy-saving light control solutions to help you transform residential and commercial applications. Today, our solutions have expanded to include temperature and small appliance control.

Within these pages we'll highlight some simple Lutron solutions that can help your clients save energy while adding ambiance, style, and convenience to their homes.

Or, what we like to call energy savings without sacrifice.

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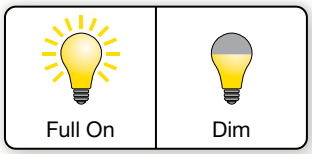
Light Control—Dimming

Diva® C•L™ Dimmer

Light controls such as dimmers, occupancy sensors, and daylight sensors can have a big impact on a home's electric bill.

These products are simple to install, making them easy to retrofit into any space.

Dimmers



Every time you dim the lights you save energy. Dimming by 25%, for example, **saves about 20%** energy—and bulbs last longer, too. Dim more and you'll save even more.

Dimming the lights	Saves electricity	Bulbs last on average	Annual savings*
10%	10%	2-3 years	**$9.70**
25%	20%	3-6 years	**$17.30**
50%	40%	10+ years	**$30.00**

* Actual savings may vary depending on use and application. Stated savings based on dimming (4) 75W incandescent reflector lamps (rated at 1500 hrs each, costing $1.75 per lamp or 3000 hour halogen bulbs costing $3.35 per lamp) by 50% (perceived light level corresponding to 40% reduction in power level) for 5 hrs per day with electricity cost of $0.104/kWh. To calculate your own savings visit www.lutron.com/energycalc.

Energy savings is not the only benefit you get from dimming lights, though. Dimming helps personalize a space and create just the right mood or ambiance for any activity, whether you're reading a book or making dinner.

Creating varying levels of light also allows you to give each room its own look and feel, using light as part of your décor rather than as only a functional element.

Dimmable CFLs

Dimmable LEDs

Halogen and Incandescent Bulbs

Diva® Dimmer shown in Hot

Lutron has dimmers that work with all types of light sources, from incandescents and halogens to dimmable compact fluorescents (CFLs) and LEDs. In addition, we have dimmers that automatically save 15% energy over a standard switch.

Our dimmers come in a variety of styles, finishes, and over 27 colors, making it easy to coordinate, accent, or blend our controls with your décor.

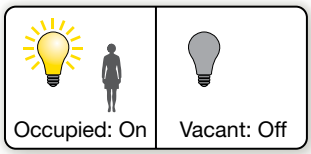
Light Control—Sensors

Ceiling mount

Wall mount

Radio Powr Savr™ Occupancy/Vacancy Sensors

Occupancy/Vacancy Sensors



An occupancy/vacancy sensor turns lights on automatically when you walk into a room and turns them off when you leave a room, **saving up to 20%*** lighting energy.

A sensor is ideal for rooms where lights are often inadvertently left on, such as a child's room. Lutron's sensors are wireless, so they are easy to install—and they have a 10-year battery life.

We also manufacture vacancy-only sensors to comply with California Title 24 requirements.

* Impact Analysis: 2005 Update to the California Energy Efficiency Standards for Residential and Nonresidential Buildings; California Energy Commission.

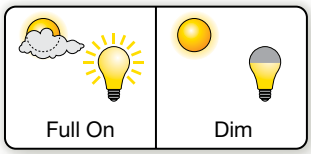
Wireless RF
Communication

Wireless RF
Communication

Radio Powr Savr™ Daylight Sensor

Maestro Wireless® Dimmers and Switches

Daylight Sensors



Daylight sensors automatically dim the lights when there's sufficient daylight coming into a room. Having that perfect balance of electric light and daylight also makes a room more inviting.

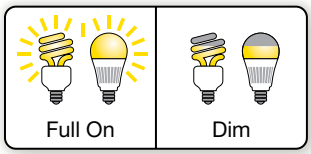
LUTRON® Clear Connect™ Wireless

These sensors work in conjunction with dimmers or switches. Clear Connect™ RF technology ensures reliable communication between the sensor and dimmer or switch, resulting in consistent performance.

Light Control—Fixtures

Finiré™ Recessed Lighting

Ivalo® Light Fixtures



CFLs and LEDs already use less energy than standard bulbs, so dimming these highly efficient bulbs saves additional energy.

Fixtures in the Ivalo Collection control high efficiency lighting, including fluorescents and LEDs.

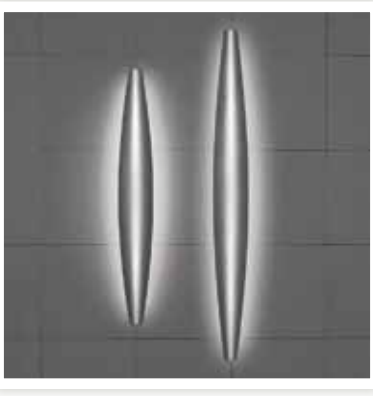
The collection includes the Aliante® 21" interior demi sconce—which has earned the ENERGY STAR® rating by the DOE/EPA.

Aliante® Pendant

L'ale® Pendant

Rotare® Pendant

Daedalus® Pendant



Aliante Sconce

L'ale Sconce

Silvus® Sconce

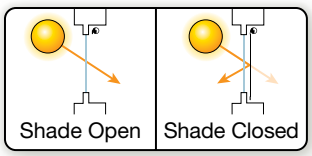
Inflection® Sconce

Ivalo® fixtures combine creative vision and progressive technology with quality and advanced design. Fixtures are available in a variety of colors and finishes, including automotive paint finishes. The collection includes suspended pendants, recessed fixtures, interior sconces, and exterior sconces.

Daylight Control—Shades

Cellular Shades

Automated Shades



Automated shades help lower cooling costs in summer and heating costs in winter. In fact, adjusting shades based on the season can **save you 10–30%*** on heating and cooling costs.

In addition, shades help increase privacy and enhance security—while protecting furnishings, fine art, rugs, and wood surfaces from harmful UV rays.

* Lutron commissioned simulation by T.C. Chan Center for Building Simulation and Energy Studies, University of Pennsylvania, September 2008.

The sun's rays can easily overheat a room in summer, causing air conditioning to work overtime, driving up cooling costs. Automated daylight control can help change that.

You can control Lutron shades using keypads, IR remote controls, or wireless tabletop controls. If your shades are integrated with a system, you can also control them via your personal computer, iPad®, or iPod touch®.

Having alternatives such as a remote control is especially useful for shades that are installed in hard to reach places, such as behind a sunken tub in the master bath.

Window treatment options include:


Roller shades

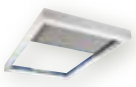

Roman shades

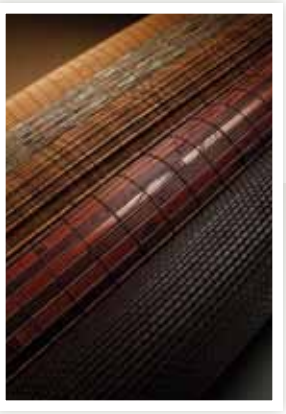

Cellular shades


Drapery systems


Kirbé™ vertical drapery system


Venetian blinds


Skylight, bottom-up, and angled window shades



Our custom-made window treatments are available in a variety of styles. Choose from roller shades, Roman shades, tensioned shades, cellular shades, Venetian blinds, and drapery track. Custom printing and customer's own material (COM) is also available.

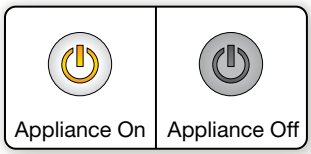
Small Appliance Control

The plug-in appliance module allows for switching control of small appliance and other non-lighting loads. The module receives commands from sensors or keypads to turn off standby power when the small appliance is not in use.

Keypads and occupancy/vacancy sensors communicate with the plug-in appliance module via wireless RF communication.

Plug-in Appliance Module

Plug-in Appliance Module



Many electronics, such as A/V equipment, computers, and TVs, continue to draw electricity even when they are turned off. This standby power can amount to **up to 10%** of a home's electricity use.

* www.standby.lbl.gov

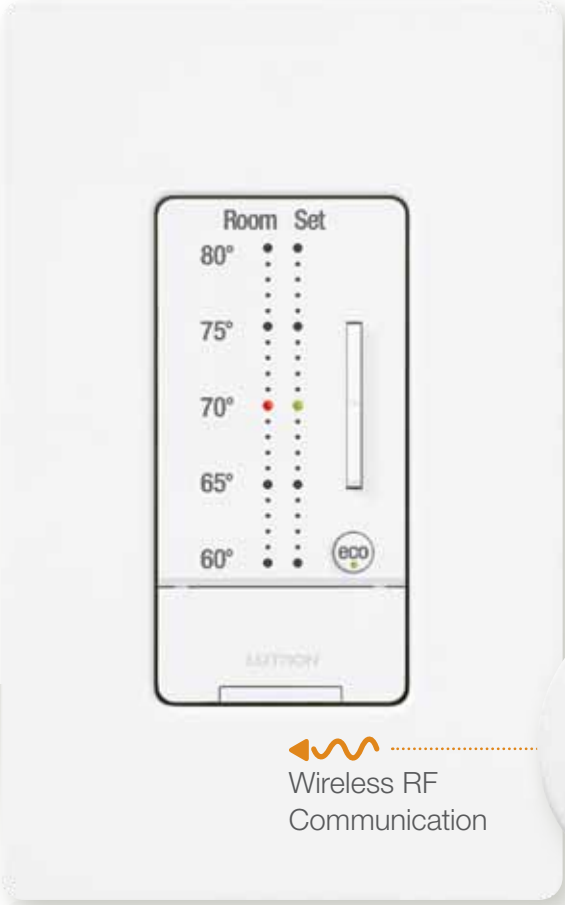
The plug-in appliance module is eliminating standby power to:

The plug-in appliance module offers the ultimate in convenience—just plug it in and turn off standby power from a keypad. Standby power can also be turned off automatically when you leave a room when the module is working in conjunction with an occupancy/vacancy sensor.

The module is easy to install, and its compact size makes it ideal for hiding behind furniture. And Lutron's Clear Connect™ RF technology ensures reliable RF communication free of interference.

Temperature Control

Lutron puts temperature control where it makes sense in an easy to use, aesthetically pleasing design. With seeTemp™, you can conveniently set the temperature back and save energy simply by pushing the “eco” button.

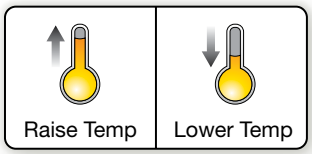


Wireless RF Communication

seeTemp Display

Temperature Sensor (Wall mount)

Lutron Temperature Control



Temperature control helps you save on heating and cooling costs. Simply setting back the temperature when a room is unoccupied can help you save significantly—**up to 16% or more**.*

Ideal for retrofit applications, seeTemp can be mounted in locations that would not normally be appropriate for a thermostat, such as exterior walls and sunny spaces. An accompanying wireless remote temperature sensor (shown above) is what allows the temperature to be measured in the optimum location.

* www.energystar.gov

Combining Energy-saving Strategies

Lutron offers total home control systems for control of electric light, daylight, small appliances, and temperature—all at the touch of a button. Having complete control with one touch not only adds a "wow" factor to a home, but helps maximize energy savings.

Another benefit of control systems from Lutron is that they're expandable solutions. So you can start with components in one or a few rooms, then add on as needed for control throughout the entire house.

Saving Energy Room by Room

Any room in a home is ideal for installing an energy-saving solution. All of the upgrades on the following pages are simple additions—and they deliver other benefits, such as convenience—making them much more than a cost-saving investment.

Entryway

Add **light control** to a front entry and you'll never have to walk into a dark home. With a wireless control you can turn on lights before you even get out of your car. Plus, you won't have to leave a light on all day until you return, wasting energy.

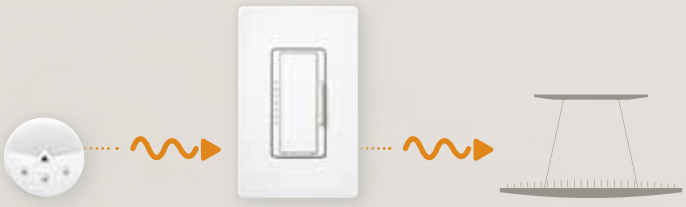
Featured energy-saving solutions:
Maestro® dimmer and car visor transmitter

How it works: The wireless car visor transmitter sends a radio frequency signal to the light switch, "telling" it what to do. When you arrive home, for example, press the "Home" button on the transmitter, and the entryway lights controlled by the switch will turn on.

Kitchen

The kitchen often has plenty of windows, so it's an ideal room for **daylight control**. A daylight sensor orchestrates the perfect balance of electric light and daylight, while the Pico wireless control is a convenient way of adjusting shades.

Featured energy-saving solutions: Radio Powr Savr™ daylight sensor, Maestro dimmer, and Ivalo® fixture



How it works: The daylight sensor sends a radio frequency signal to the dimmer "telling" it to brighten or dim the electric light based on the amount of daylight in the room. The dimmer, in turn, adjusts the amount of light emitted from the bulb in the light fixture.

Ivalo® Fixture

Sivoia® QS Wireless Shades

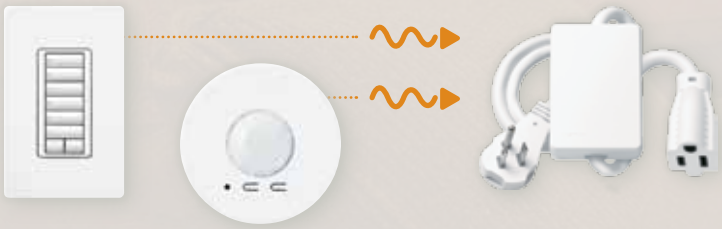
Featured energy-saving solutions: Sivoia QS Wireless shades and Pico® wireless control

How it works: Sivoia QS Wireless shades contain a hidden radio frequency receiver. The Pico control communicates to the shades via a radio frequency signal. When you press a button on the control, such as “Open” or “Closed,” the control “tells” the shades what to do.

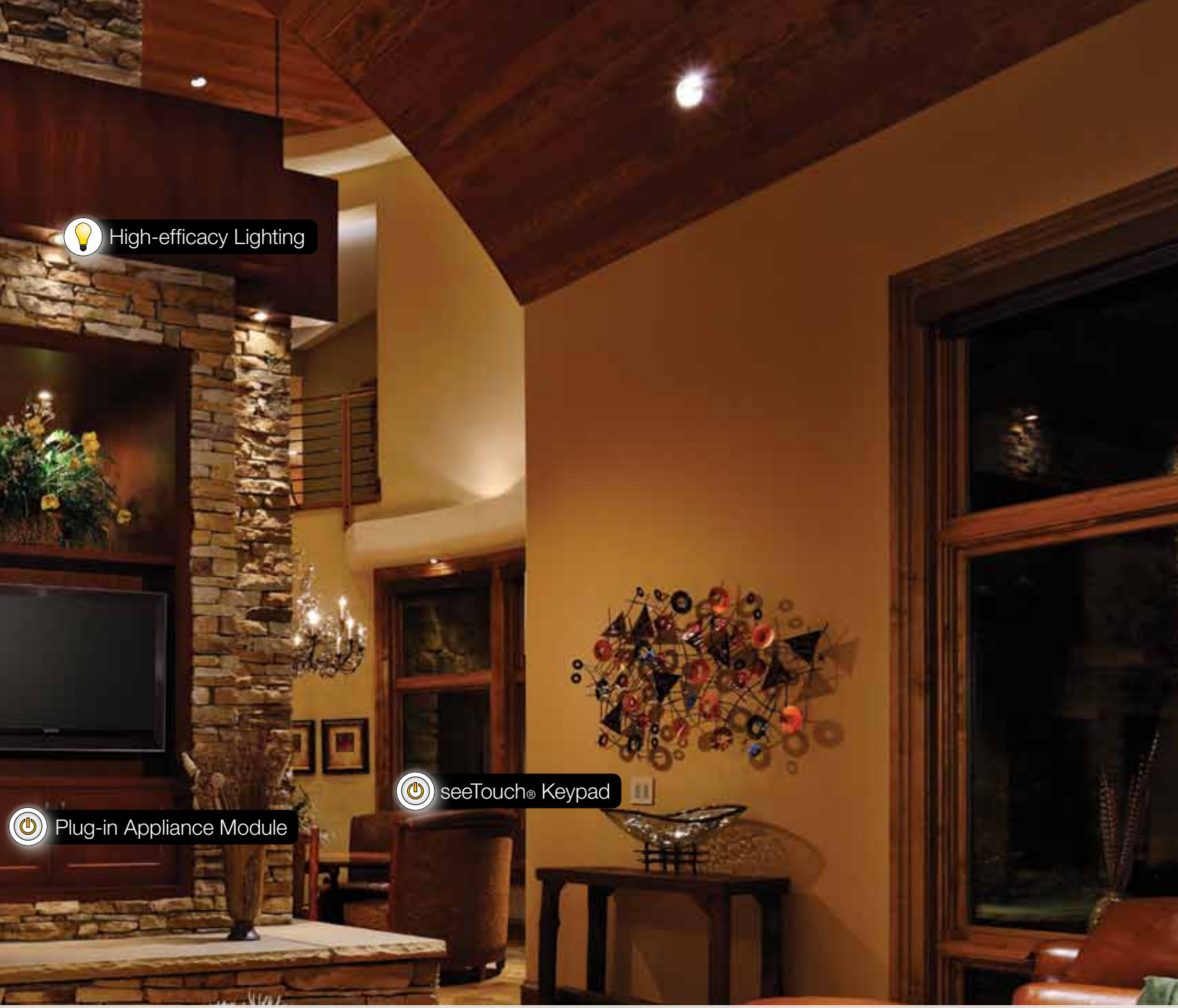
Family Room

A family room is the perfect area for **appliance control**. Use the plug-in appliance module to avoid wasting energy when electronics aren't in use. The family room is also a good space in which to maximize the energy savings you get from using high efficacy light bulbs by pairing them with a dimmer.

Featured energy-saving solutions: Plug in-appliance module, keypad, Radio Powr Savr™ occupancy/vacancy sensor



How it works: The plug-in appliance module receives a radio frequency signal from a keypad or sensor "telling" it to turn off standby power when the appliance isn't being used.



Featured energy-saving solutions:
High-efficacy light control

How it works: A dimmer reduces the total amount of energy flowing through a light circuit. When you pair dimmable compact fluorescents or LEDs (which are highly energy efficient) with a dimmer, you'll maximize your energy savings because you'll save even more energy than you would using those bulbs on their own.

Master Suite

Installing **temperature control** in the master bedroom means you can conveniently lower a room's temperature at night. And a simple press of the "All Off" button ensures all your house lights are off.

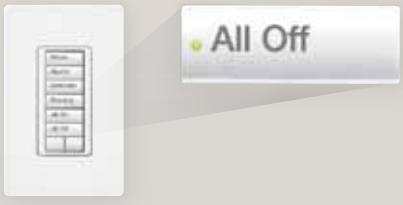
Featured energy-saving solutions:
seeTemp™ thermostat and temperature sensor

How it works: The sensor measures the room temperature and then communicates the temperature to the HVAC unit, which adjusts heating or cooling based on the set temperature on the seeTemp thermostat.

seeTouch® Keypad

seeTemp™ Temperature Display

Featured energy-saving solutions:
"All Off" button



How it works: When you press the "All Off" button it communicates with a processor or main repeater, which in turn "tells" the dimmers and switches in your home to turn off.

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www.lutron.com/energy

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