



Building Efficiency *for Commercial Construction*



*Save Energy. Save Money.
Earn Cash Incentives With
Energy Efficient Designs.*

Updated for 2009

www.idahopower.com/buildingefficiency

EFFICIENCY



Specific incentives offered through *Building Efficiency* include:

Lighting

L1. Reduced Power Density Lighting

For lighting system designs that are at least 10 percent better than code minimum, you can earn \$0.005 per square foot of the area served by the lighting per percent below code.

L2. Daylight Photo Controls

Lighting systems designed to operate with daylight photo controls can earn \$0.25 per square foot of daylight space. Your daylighting plans need to be analyzed or reviewed by Idaho Design Lab (IDL) to qualify.

L3. Occupancy Sensors

Wall or ceiling mounted occupancy sensor controls installed in spaces where they are not required by code can earn you an incentive of \$25 per sensor installed.

L4. High Efficiency Exit Signs

Exit signs that draw less than four watts per sign face can qualify for an incentive of \$7.50 per sign.

Air Conditioning (HVAC)

A1. Premium Efficiency HVAC Units

To qualify for an incentive of \$75 per ton of cooling capacity, units must meet the Consortium for Energy Efficiency (CEE) High-Efficiency Commercial Air Conditioning and Heat Pumps Initiative (HECAC) Tier I minimum specifications. Single-phase units and split systems of five tons or less must meet CEE minimum specifications in HECAC Tier II. Refer to the CEE HECAC specification tables (www.cee1.org/com/hecac/hecac-tiers.pdf) for details.

A2. Additional Unit Efficiency Bonus

For HVAC units with efficiencies above the qualifying minimum HECAC standards, an additional \$2.50 per ton for each 1/10 of a point the energy efficiency ratio, (S)EER, exceeds the minimum. Incentives of both A1 and A2 can be combined to earn incentives in the range of \$100 per ton.

A3. Efficient Complex Cooling Systems

This measure provides incentives where larger and more complex HVAC systems (such as chiller-based systems) are part of the design. This measure offers incentives of \$250 per ton of air conditioning for each point the equipment coefficient of performance (COP) exceeds code requirements.

A4. Air Side Economizers

For air conditioning units with a cooling capacity of four and a half tons or less, the addition of an outside air economizer – coupled with a commercial grade, two-stage thermostat can earn an incentive of \$75 per ton.

Building Shell

B1. Reflective Roof Treatment

Roof treatments with a total initial solar reflectivity of at least 0.70 and an emissivity of 0.75 or more qualify for an incentive of \$0.05 per square foot of flat or slightly sloped roof area where the product or coating is applied in buildings with central mechanical air conditioning systems. Roofs pitched more than 4 in 12 are not eligible for this incentive.

B2. High Performance Windows

High performance windows are National Fenestration Rating Council certified to meet two specifications – a U-factor of 0.30 or less and a Solar Heat Gain Coefficient of 0.30 or less. These windows can earn an incentive of \$0.50 per square foot of qualifying window area.

B3. Window Shading

Window shading — in the form of window shade screens — is eligible for an incentive of \$0.50 per square foot of window area when applied to windows exposed to direct sunlight in buildings with central mechanical air conditioning systems. Interior window shades, such as blinds and drapes, are not eligible. Manufacturers' specification sheets for the window shading material applied must accompany the final documentation.

Controls

C1. Energy Management Control System

An incentive of \$0.30 per square foot of controlled floor space is available for energy management systems that provide automatic control of at least two of the following: lighting, HVAC, refrigeration or other energy-using systems. Incentive payments require a brief control strategy summary to verify the system's energy savings, subject to Idaho Power approval. This incentive can never be more than the cost of the control equipment (not including installation).

C2. Demand Control Ventilation

This measure provides an incentive of \$0.50 per cubic feet per minute (CFM) of outside air for ventilation systems that use carbon dioxide sensors to automatically adjust outside air flow based on occupancy levels. To qualify, HVAC systems must provide at least 1,500 CFM and serve areas with variable occupant loading.

C3. Variable Speed Drives

This measure provides an incentive of \$60 per horse power for variable speed controls for fans, pumps and other variably-loaded electric motors between five and 100 horsepower operating at least 2,000 hours per year. The variable speed drive must be installed in accordance with IEEE Standard 519.

Working with You

Idaho Power's Building Efficiency program has been expanded and enhanced to provide more incentives for energy-savings design features that exceed code. The menu includes incentives for energy-saving lighting, cooling, building shell, and controls measures designed and built into commercial and industrial construction projects. Any size building can qualify for an incentive of up to \$100,000 per project.

We are proud to offer these incentives along with other programs for our Commercial and Industrial customers. Our incentive programs are designed to help you enhance your energy efficiency and boost the bottom line. With this incentive, the economics of an energy-saving project can have a significantly higher return on investment (ROI).

Energy Efficiency Benefits Everyone

Energy efficiency is good for your business because it reduces your costs. Energy efficiency benefits all of our customers because it helps defer the need to acquire other more costly resources to meet the demand on the electrical system. This contributes to holding rates down for all customers.

Efficient energy use can contribute to cleaner air and a better environment. Ultimately, that benefits everyone. Idaho Power offers a broad selection of energy efficiency programs designed for our Commercial-Industrial, Agricultural, and Residential customers. To learn more about these programs, go to

www.idahopower.com/energycenter.

Eligibility

The Building Efficiency program is open to all commercial and industrial customers with a significant construction project – new building, expansions and additions, or major renovation. When the project involves professional design services and review by code authorities, it can qualify for this incentive program. Preliminary and final applications must be submitted within 60 days of project completion.

How to Participate

1. Assess your Design for Energy-Saving Opportunities.

Start early. Ensure that your design team is committed to an energy efficient design and are aware of what they need to do to qualify for the incentives available.

2. Submit a Pre-Application.

This step is necessary before any incentive payment. The process is easy and can be done before you know all your project's design details. The form is available online.

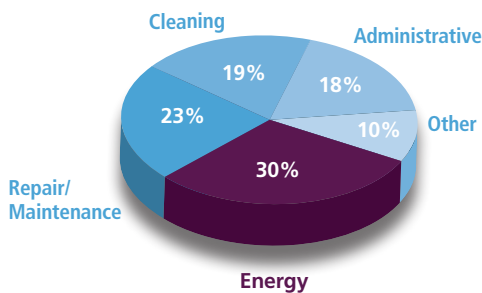
3. Build the Energy Efficient Features into your Facility.

4. Submit a Final Application with Supporting Material.

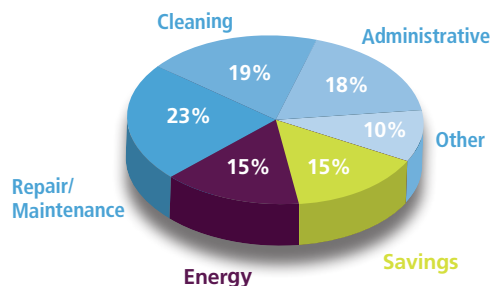
Submit proof of performance and proof of purchase with your Final Application within 60 days of project completion. Those materials can include building plans, product specifications, and copies of paid invoices. The form is available online. Refer to the program's Terms and Conditions before submitting.

Energy is the single largest operating expense for commercial office buildings

Typical Office Building*



Building Utilizing Program
50% reduction in energy cost



Source: EPA ENERGY STAR

Resources

BetterBricks Technical Information

A Northwest Energy Efficiency Alliance-created resource specifically targeted to green and efficient commercial design strategies and building technologies. www.betterbricks.com

Integrated Design Lab Design Assistance

Daylighting design analysis and other design assistance from the Boise-based lab featuring University of Idaho graduate architectural students. www.uidaho.edu/idl



Other Idaho Power Energy Efficiency Programs

Commercial-Industrial

Easy Upgrades – a program that provides a menu of one-time incentives of up to \$100,000 per site per year for many simple energy-saving retrofits to existing commercial buildings and industrial facilities.

Custom Efficiency – a financial incentive of up to 70 percent of the cost for large and complex projects that improve the efficiency of Commercial or industrial electrical systems or processes.

Agricultural

Irrigation Efficiency – an incentive of up to 75 percent for irrigation customers who improve the energy efficiency of an existing pump system or up to 10 percent when installing an efficient new pump system.

Residential

ENERGY STAR® Homes – an incentive to builders for each home built to the Energy Star standard of 30 percent more efficient than one built just to code.

For additional Idaho Power energy efficiency programs, visit www.idahopower.com/energycenter

Program information also is available by calling Idaho Power at **1-800-488-6151** (or 388-2323 in the Treasure Valley). The Building Efficiency program specialist can be reached at:

Building Efficiency:

buildingefficiency@idahopower.com

You can also reach the program specialists for Idaho Power's two other Commercial and Industrial energy efficiency programs at:

Easy Upgrades:

easyupgrades@idahopower.com

Custom Efficiency:

customefficiency@idahopower.com