

IMPROVE YOUR BOTTOM LINE — and your system's reliability — with energy-efficient computing.

DATA CENTERS



Seattle City Light offers rebates to help customers save energy in data center and IT computing environments.

With help from Seattle City Light, you can cut your energy bill and operating costs by installing energy efficient IT computing solutions.

Energy consumption is a critical issue for IT organizations. As IT energy consumption soars to new levels, it is important to find smart energy computing solutions for your IT environment.

Reduce power requirements with server virtualization

By dividing one physical server into several virtual servers, you reduce the number of dedicated servers your operation requires — thus lowering your power and cooling requirements, as well as hardware costs. For each underutilized server removed, you can save \$120 or more in annual power costs.

Save energy with power management software or by sharing CPUs

Reduce energy usage by having networked computers automatically shut down or go into sleep mode when not in use. Save even more by operating multiple workstations from a single Central Processing Unit (CPU).

Get a rebate for your custom computing project

Seattle City Light will fund up to 70% of the total project cost to implement custom energy-conservation measures in your data center or IT department. See reverse for details.

HOW TO GET YOUR SEATTLE CITY LIGHT REBATE

- 1 Call (206) 684-3800.
- 2 Work with a Seattle City Light energy analyst to evaluate your project and estimate your rebate and energy savings.
- 3 Secure authorization from Seattle City Light prior to your contractor starting work.
- 4 Proceed with installation and contact Seattle City Light for final verification when work is complete.

Learn more about Seattle City Light cash rebates.

Call (206) 684-3800 or visit www.seattle.gov/saveenergy.

Custom rebates

Rebates are available to commercial, industrial and institutional customers for the common IT computing measures detailed below — and for many additional upgrades not listed here.

- **Hot Aisle / Cold Aisle Separation.** By installing a physical barrier — such as enclosed server cabinets or vinyl strip curtains — to separate hot and cold air streams in the data center, you will stop wasteful air re-circulation, increase the efficiency of cooling equipment, and improve temperature control at the server. You will also reduce cooling energy use by 10-15%.
- **Cooling with outside air.** Use Seattle's mild climate for data center "free-air" cooling instead of using energy-intensive mechanical cooling. Incentives apply to economizer retrofits of existing buildings.
- **Energy-efficient chillers.** In situations where it's not feasible to cool using outside air alone, you can still qualify for Seattle City Light rebates by using chillers that are 10% more efficient than Seattle Energy Code requirements.
- **Variable-speed drives (VSDs) on computer room air handler (CRAH) units.** If you use redundant or oversize CRAH fans, you can reduce energy use by adding variable-speed drives. A 25% reduction in fan speed produces energy savings of approximately 50%.
- **Ultrasonic humidification retrofit.** Replacing conventional humidifiers with energy-efficient ultrasonic humidifiers can significantly reduce your energy use — plus you'll save even more by not adding heated water vapor to the data center.
- **Energy-efficient uninterruptible power supply (UPS).** Most UPS systems operate at 40-45% of capacity and incur power losses of up to 15%. An efficient UPS system can cut losses by 50% or more, saving energy and reducing costs.
- **Custom rebates are based on your specific projected energy savings, paying up to 70% of the total project cost.** To qualify for rebates, you must obtain project approval from Seattle City Light prior to purchase or installation of equipment or materials.

Simple rebates

Simple rebates offer flat per-unit funding to offset the purchase cost of qualified energy-saving equipment.

- **A one-time rebate of \$150 for each server you remove** by adopting server virtualization.
- **A one-time rebate of \$8 per connected PC** to encourage the use of power management software. To be eligible, you must provide a trend log and identify the type of PCs you use to establish current energy use. Rebates are available for desktop computers only.
- **A one-time rebate of \$25 per connected workstation** when you operate multiple workstations from a single central processing unit (CPU). To qualify for this incentive, each CPU must serve three or more workstations.

Rebates for energy conservation

Seattle City Light offers rebates to help customers save energy because it is the most cost-effective way to meet our future electricity needs. When customers reduce their electricity use, it helps us conserve our hydro resource and avoid the expense of building new power plants or buying electricity on the open market.

Our mission

Seattle City Light is a publicly owned utility dedicated to exceeding our customers' expectations in producing and delivering environmentally responsible, safe, low-cost and reliable power. Over 90% of our electricity is produced by clean, renewable hydro power and wind generation. Seattle City Light is committed to delivering the best customer service experience of any utility in the nation.

Reduce your carbon footprint

The City of Seattle is a national leader in protecting the environment. Seattle residents and businesses are joining in efforts to help reduce the negative impacts of climate change.

Fact sheet data is based on estimated energy use and expense; actual savings will vary. To qualify for rebates, you must obtain project approval from Seattle City Light management prior to purchase or installation of equipment or materials. Rebates must total \$500 or more to be eligible. This program may change without notice and is subject to the availability of funds.

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