



*Los Angeles World Airports*

**LAX VNY**

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**Fact Sheet**

## **Energy Conservation**

The efficient use of energy and the incorporation of green power are critical factors in developing and maintaining sustainable operations at Los Angeles World Airports (LAWA) facilities.

LAWA has a long history of investing in green power and energy-saving programs as demonstrated by its use of co-generation for steam and electricity at Los Angeles International Airport's (LAX) Central Utilities Plant (CUP) for more than 50 years.

The existing co-generation facility reduces fuel usage 10 – 30 percent, compared to separate electricity and heat processes. In addition to providing utilities for LAX facilities, excess electricity is sold at a reduced rate to the Los Angeles Department of Water and Power (DWP) for community use.

A \$438-million project is underway to replace the existing Central Utility Plant with a state-of-the-art, computer-operated facility that will provide air conditioning, heating and lighting for a modernized LAX. The new CUP is designed to be 25 percent more energy efficient than the current facility and will meet all current air-quality regulations. The new CUP Project, when completed in 2014, will also further minimize adverse environmental impacts on surrounding areas.

Operations at LA/Ontario International Airport (ONT) also have incorporated energy-saving measures.

When ONT opened its new terminal in 1998, it included energy-efficient windows and a ceiling system that maximized light distribution without radiating heat in the structure.

LAWA also invests in green power, from wind and solar, to minimize pollutants, including greenhouse gases that contribute to global warming, all of which lower the quality of life.

In October 1999, the Board of Airport Commissioners adopted a resolution establishing LAWA's participation in the DWP's "Green Power for LA" program to purchase electricity from renewable sources. Now, LAWA purchases approximately 13 percent of its power from renewable energy resources. LAWA has committed to expanding its purchase of green power from DWP to 25 percent.

### **Energy Reduction**

In addition to producing and purchasing green and energy-efficient power, LAWA has dedicated substantial effort to reducing the amount of energy needed to operate and maintain its facilities. Using new technologies and retrofitting existing heating and cooling units, LAWA has reduced the amount of energy needed on a per-passenger basis by:

- Retrofitting 90 percent of light fixtures at LAX to higher-efficiency light fixtures – including compact fluorescents.
- Upgrading building air-handling units with variable speed drives and soft-start controls;
- Installing light-emitting diode (LED) lights on runways, signs and other lights; and
- Installing light sensors in LAWA administration buildings.

## **Energy Conservation**

Building upon its long history of energy conservation, LAWA is committed to further reductions in energy use in all of its facilities and operations. In order to meet its targets for reducing energy usage, LAWA undertakes the following initiatives:

- Install energy-efficient light fixtures when changing burned-out bulbs;
- Install new or increase efficiency of existing heating and cooling equipment;
- Purchase more energy-efficient computer servers and consolidate servers;
- Install energy-efficient variable speed motors during replacement;
- Upgrade with energy-efficient systems when replacing older, building-related process-energy systems and equipment; and
- Install variable-speed fan drives, where needed.

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