



THE CITY OF SAN DIEGO

ENVIRONMENTAL SERVICES DEPARTMENT

Northwestern Division Police Substation

LEED SILVER

The Northwestern Division Police Substation is a 22,000 square-foot building with a vehicle service/maintenance facility. The substation is organized by a linear, skylit atrium that acts as the building's primary circulation and provides daylight for the center of the building. The building achieves significant energy savings through the implementation of energy efficiency and renewable energy measures.



Photo courtesy Safdie Rabines Architects

Completed: 2007

Energy

- 17kW AC comprised of 144 Unisolar PVL-136W modules, producing approximately 25,916 kilowatt-hours per year.
- The project is 26% better than California's 2001 Title 24 Energy Efficiency Standards.
- Highly energy-efficient dual-paned low-e windows are installed throughout the building.
- In the main hallway and lobby large clerestory glazing assemblies add natural daylight to this large space and 85% of the rooms in the building receive natural daylighting.
- The lighting system consists of a variety of highly efficient components, including highly efficient fluorescent sources, occupancy sensors, and automatic photocell control in daylight spaces.

- The lighting design is approximately 16% better than Title 24 requirements.
- The overall building envelope is about 45% better than required by the Title 24 energy code.
- In addition to decreasing annual energy use, the energy-efficient design is expected to reduce summer peak demand, an important goal of the San Diego Regional Energy Strategy 2030.
- Electric vehicle recharging systems.

Materials

- Use of low emitting materials such as carpet, composite wood, and Agrifiber.
- The walls and roof of the building are well insulated well above requirements.
- Many of the materials were sources within 500 miles of the site.

Water

- Outdoor water use reduced 50% by efficient landscaping.
- Low flow plumbing fixtures conserve water.

Other

- The project will display LEED educational signage and has created a case study of the building to demonstrate the City of San Diego's commitment to the environment and its employees, and to promote other sustainable efforts in the area.

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