Project Overview

La Escuelita Education Center (LEEC) is a new high performance facility. The design vision was to create an integrated campus with an enhanced teaching and learning environment for students and demonstrates the District’s Full Service Community School Model. In addition, LEEC was designed to be the District’s first grid neutral building with solar photovoltaic panels on all four buildings totaling approximately 600 KW. This project represents the District’s commitment to high quality sustainable facilities for students and the community.

LEEC is also a Coalition of High Performance Schools (CHPS) project and was recently certified for Phase 1 at 56 points- the highest in the state of California. It also received the Award of Excellence at the 2014 Coalition of Adequate Housing (CASH) Conference and Honorable Mention at the 2014 ASHRAE Technology Conference.
### Design Features

- Site Orientation
- Reduction in Heat Islands
- Demand control ventilation using CO2 Sensors
- Natural daylighting—clerestory windows
- Provided photosensor controls and automated electric lighting controls in response to daylight
- Open corridors and hallways to minimize conditioned spaces
- Provided thermal displacement ventilation in classrooms and school areas
- Oversized ceiling fans
- Natural ventilation/Operable windows
- Roof mounted photovoltaic systems on all four buildings
- Solar Panels for domestic hot water in kitchen and adult restrooms
- Occupancy sensors in all occupied spaces
- Cool towers
- Thermal mass wall system
- Rainwater Aqueduct System

### SUSTAINABLE DESIGN INITIATIVES:

Among the priorities for the new LEEC are to promote sustainability and minimal impact on the environment. The center itself will be used as a tool to educate its users about green construction/design self-sustainability. For real time energy consumption, please visit: [http://www.buildingdashboard.com/clients/ousd](http://www.buildingdashboard.com/clients/ousd)

### BUILDING INFORMATION:

- **Total Building SF:** 126,000 SF

### TOTAL CAPACITY PER SCHOOL:

- La Escuelita ES: 360
- MetWest HS: 180
- United Nation CDC: 168

### TOTAL CHPS POINTS ACHIEVED:

- **Phase 1:** 56 Points (Certified)
- **Phase 2:** 54 Points (Pending)

### FUNDING:

The project budget is $89.5 million and is funded through a combination of funding sources, Measure B and the Office of Public School Construction (OPSC) funding.
Evaporative Cooling System

Photovoltaic Energy
Rainwater Aqueduct System

Thermal Mass Construction
Daylighting Orientation

Cooling by Displacement Ventilation (cool weather)

Cooling by Automatic Ceiling Fan (warm weather)

Heating with Automatic Ceiling Fan Assistance (cold weather)