2010 Grid Neutral Awards Program

Inaugural Year
K-12 Schools

Categories
- Distinguished Campus
- District-wide Excellence
- Exemplary Teaching Tool

Green California Schools Summit 2010

David Thorman, AIA
Former State Architect
&
Howard “Chip” Smith
Acting State Architect
Grid Neutral

A site that produces as much electricity as it uses in a year.
Grid Neutral Guidebook & Video

1. New School: Set Energy Performance Goal
   Existing School: Measure current Use, Set Goal

2. Implement & maintain appropriate energy efficiency & conservation measures to lower electricity use.

3. Install solar or wind systems to create electricity to meet remaining needs.

4. Maintain energy systems.
   Monitor electricity consumption & production.

Grid Neutral Guidebook and Video:
http://www.dgs.ca.gov/dsa/Programs/progSustainability.aspx
Grid Neutral in the Code: Voluntary Measure

Grid Neutral Percentage = Production Consumption

The more consumption goes down with energy conservation, the less electricity needs to be produced to attain grid neutral.
On with the Awards!

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Distinguished Campus

Yuba City Unified School District

Steve Plaxco, Director Maintenance

www.ycusd.k12.ca.us
Yuba City USD:
Riverbend Elementary School (K-8)

Innovative Funding
• Local Bonds for new construction
• School Facility Program through DGS/OPSC
• PG&E Utility Rebates of $750,000

40% Grid Neutral
93 Energy Star rating
“The project is exemplary for its comprehensive integration of energy demand reduction; peak saving strategies; energy efficient systems; and renewable generation. Most notable is that the final project design elegantly incorporates these design considerations. Nicely done!” ~ Jack Paddon, Juror, DSA Green Committee
District-wide Excellence

Milpitas Unified School District

John Cimino
Director MOT
Milpitas Unified School District

www.musd.org
Milpitas Unified School District: Program Overview

- 3.4 Megawatt PVs mounted on stand alone structures
- 80% Grid Neutral
- 75 Energy Star Rating
- Energy Management Software installed
- Power Purchase Agreement at 14 sites
Photovoltaics at Carports
Photovoltaics at Playfields
“Milpitas has done a wonderful job approaching grid neutrality. 80% is a great achievement. What a great example for all school districts.”
~John Maloney, Juror, DSA Green Committee
Exemplary Teaching Tool

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www.musd.org
Solar Curriculum

- Educational Opportunities – On-site laboratory for alternative energy, energy science curriculum and professional development opportunities for teachers
- Curriculum integration with 5th and 6th grades

- Environmental Stewardship – Provides clean energy resulting in the reduction of 26,000 tons of carbon, equivalent to planting 270 acres of trees
“Milpitas has done a good job of getting the word out to their community as well. With the big and visible arrays in the parking lots, everyone in Milpitas will surely get the word on the potential of solar energy.” ~Lisa Gelfand, Juror, DSA Green Committee
Grid Neutral Recognitions

Irvine USD
San Jose USD
Sonoma USD
Bishop USD
Napa Valley USD
Hollister School District
Natomas School District
Red Bluff Union HS District
San Ramon Valley USD
Santa Monica USD
Poway USD
Los Angeles USD
Lodi USD
San Diego USD
Mt. Diablo USD
Antelope Valley HS District
William Hart USD