

LOS ANGELES UNIFIED SCHOOL DISTRICT

**HIGH PERFORMANCE SCHOOLS PROGRAM
FIRST QUARTER 2008 REPORT**

May 23, 2008

This First Quarter 2008 Report on the Los Angeles Unified School District High Performance Schools Program fulfills the directive of the Board of Education's October 28, 2003, *Sustainability and the Design and Construction of High Performance Schools* resolution.

1. PROGRAM MANAGEMENT

- **Executive Sustainability Committee:** At its quarterly meeting on January 24, the Executive Sustainability Committee reviewed and approved the High Performance Schools Annual Report. Key discussion topics included commissioning and renewable energy. The Committee, which includes managers of key Facilities divisions and the Office of Environmental Health and Safety, coordinates the implementation of and reporting on the High Performance Schools Program.
- **High Performance Schools Working Group:** Formed in 2000, the Working Group provides a forum for the many stakeholders interested in the High Performance Schools Program to learn about, comment on and support the Program. The Working Group's quarterly meeting, held March 7, focused on the District's efforts to install energy efficient low voltage transformers and a presentation on financing options for installing renewable energy systems on LAUSD facilities.
- **Global Green Support:** For the past four years, Global Green USA, has supported the implementation of LAUSD's High Performance Schools Program under funding provided by the Annenberg Foundation. Their key task is working with District staff to review the CHPS performance of new schools. At the completion of design, Global Green certifies each project's CHPS score. Global Green also assists the District with other programmatic matters related to high performance schools.

2. INITIATIVES

- **CHPS Compliance During Construction:** Procedures for ensuring the implementation of CHPS-related items during construction have been finalized. Construction oversight has begun for all new projects.
- **Repair Projects High Performance Criteria:** These voluntary criteria were

released after many projects were already funded and in design. To overcome these barriers, the District is working to establish a process to incorporate appropriate measures.

- **Water:** Due to costs, the bids to install waterfree urinals in the Fremont Complex were cancelled. In its place, a contract was awarded to install ultra-low flow urinals (1/8 gallon per flush) for the Eagle Rock Complex (standard low flow urinals use one gallon per flush). Ultra-low flush urinals save virtually the same amount of water as waterfree urinals; do not have cartridges that require replacement and disposal; and are more likely to fit directly onto the existing mounts. The District will monitor the installation of this prototype contract to improve future requirements and to identify the most cost effective way forward. New construction projects continue to exclusively specify waterfree urinals.

A specification is being developed for the installation of smart irrigation controllers that conserve water by irrigating plants based on, among other factors, the weather and the moisture in the soil.

- **Storm Water Management:** The District continues to negotiate with the State Water Resources Control Board on LAUSD's Storm Water Management Plan, and is working to ensure that the storm water systems currently being designed and installed for LAUSD schools meet the final criteria.
- **Energy Efficiency:** Minimum transformer energy efficiency requirements were established in the Federal Energy Policy Act of 2005, and they are now included in the Title 24 energy standards. LAUSD has analyzed the opportunities presented by energy efficient low voltage transformers, and has modified its specifications to require "super energy efficient" transformers that go beyond the current standards.
- **Renewable Energy:** LAUSD facilities present a large opportunity for the installation of renewable energy systems. The District is analyzing a number of possible implementation scenarios for implementation. A program is expected to be finalized by the end of 2008. In addition, in anticipation of the end of the prohibition on installing renewable energy systems on LAUSD facilities in the city of Los Angeles on September 30, 2008, the District is applying for LADWP incentives for projects that will be completed after that date.
- **Commissioning:** The District has established a commissioning program and is in the process of qualifying commissioning firms to provide support. Commissioning is a CHPS required process to ensure that new building's energy systems perform as intended.
- **Low Emitting Materials:** In addition to the previously adopted low emitting carpet specification, six revised low emitting specifications have been finalized: resilient flooring (separate specifications for rubber base, vinyl and rubber tile), acoustic ceiling tile, insulation and ceramic tile. A specification for wood flooring is under development.

Acoustics: LAUSD continues to apply the CHPS acoustical prerequisite requirements to new schools and appropriate modernization projects, including portables. Sound enhancement is being installed in classrooms as part of audio-visual upgrades.

3. HIGH PERFORMANCE & INCENTIVE PROGRAMS

- **CHPS 2009:** The draft of CHPS 2009 is scheduled to be released for public review approximately June 1, and will replace CHPS 2006, the current version, concurrent with the implementation of updated California Title 24 energy standards next year. LAUSD staff has been supporting the development of the revised CHPS standard.
- **California Green Building Standard:** The State has released the draft of the proposed California Green Building Standard, Title 24 Chapter 11. While currently optional, it incorporates many high performance and CHPS related concepts including a minimum energy requirement of 15 percent better than code (CHPS 2006 requires 10 percent). LAUSD projects already exceed the proposed standards.
- **Proposition 1D High Performance School Incentives:** LAUSD continues to ensure that every eligible project earns Proposition 1D incentives. In addition to the 30 schools previously approved for incentive funds, approximately 10 more will be submitted during 2008.
- **Savings By Design:** All eligible new LAUSD projects continue to participate in Savings By Design, a technical assistance and incentive program offered by Southern California Edison. The Southern California Gas Company's program for areas where Edison does not serve may be relaunched in 2009. Of the 40 Phase 2 new schools, 25 percent are in Edison territory and 75 percent in the City of Los Angeles, which is served by the Los Angeles Department of Water and Power.
- **LADWP Energy Efficiency Incentive Programs:** LADWP's "New Construction Energy Efficiency Program," offers cash incentives to developers of energy efficient projects. The "Prescriptive Design" incentive is based on equipment efficiency; the "Comprehensive Design" incentive depends on each project's overall energy efficiency performance and requires CHPS or LEED third-party certification. LAUSD will apply for these incentives as soon as projects reach the appropriate stage.

4. STATISTICAL SUMMARY

- **New Schools CHPS Compliance**

CHPS 2002 (Phase 2 Projects)	Number of Packages Reviewed	Average CHPS Score¹	Less than 28 Points (%)	28-31 Points (%)	32 + Points (%)
Final Design Scorecards	35	33	0%	46%	54%

1. To qualify as a CHPS school under CHPS 2002, a project must receive a minimum of 28 points plus meet the 9 prerequisites. Two of these points must be from the Energy section. The Board of Education October 2003 High Performance Schools Resolution established a goal of 32 points.

CHPS 2006 (Phase 3 & 4 Projects)	Number of Packages Reviewed	Average CHPS Score¹	Less than 32 Points (%)	32 + Points (%)
Schematic Design	12	32	33%	67%
Design Development	6	33	33%	67%
50% Construction Documents	6	34	0%	100%
100% Construction Documents	6	38	0%	100%
Final Design Scorecards²	0	NA	NA	NA

1. To qualify as a CHPS school under CHPS 2006, a project must receive a minimum of 32 points and meet the 11 prerequisites. Two of these points must be from the Energy section.
2. Any discrepancy between the number of 100% Construction Document packages and number of CHPS Scorecards Finalized is due to several projects that are finalizing CHPS compliance during backcheck review before submission to DSA.

- **New Buildings on Existing Campuses CHPS Compliance**

Core Facilities CHPS Compliance (CHPS 2006) (13 Projects Reviewed; 8 Projects Potentially Eligible for Prop. 1D Funds)	
Project Phase	Average CHPS 2006 Score (Minimum Required 25)*
Schematic Design (Reported)	13
Design Development (Reported)	29
50% Construction Documents (Reported)	28
100% Construction Documents (Confirmed)	31

- **Proposition 1D High Performance Schools Incentives**

Number of Eligible Projects Submitted to DSA ¹	Number of DSA Reviews Completed	Total Estimated Grants for all Submitted Projects	Number of Projects which have Received Funds	Total Amount of Grants Received
30	30	\$8,700,000	19	\$5,208,989

1. LAUSD applies for each grant as part of the application for State construction cost reimbursement.

- **LADWP Energy Efficiency Incentives**

Statistics will be presented upon submittal of the first applications.

- **Savings By Design Energy Efficiency Incentives**

	Totals
Incentives Paid	\$182,502
SBD Contracted	\$793,033
Total	\$975,535

1. For eligibility, projects must be 10 percent more efficient than the California Title 24 Energy Efficiency Standards.
2. SBD pays earned incentives to LAUSD and the Design Team at the completion of construction, once the savings are verified. Potential incentives per project are \$150,000 for LAUSD and \$50,000 for design teams. The incentive depends on the amount energy saved.