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OAKLAND UNIFIED
SCHOOL DISTRICT

Community Schools, Thriving Students

Memo

To Board of Education

From Tony Smith, Ed.D., Superintendent
Timothy White, Assistant Superintendent, Facilities Planning and Management

Board Meeting Date January 11, 2012

Subject Interim Progress Report No. 8 - Oakland Unified School District - California High Performance School (CHPS) Program/Sustainability Initiatives and Energy and Water Plan Resolutions

Action Requested Approval by the Board of Education of the Eighth Interim Progress Report on Oakland Unified School District California High Performance School (CHPS) Program/Sustainability Initiatives and Energy and Water Plan Board Resolution.

Background Over the last three years, the Collaborative for High Performance Schools (CHPS) 2006 Criteria have been integrated into the design and construction of many Bond projects: Chabot Elementary, Cox Elementary, Jefferson Elementary, Oakland High School, Urban Promise Gym, Highland, Havenscourt, and the downtown Educational Complex (La Escuelita Phase 1), Montclair Elementary, and various Child Development Centers have utilized the CHPS 2009 Criteria as a basis. Most of these projects are currently in the Division of State Architect (DSA) review, bidding, or construction phase.

Local Business Participation Percentage 100.00%



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Recommendation

Approval of the Eighth Interim Progress Report on Oakland Unified School District California High Performance School (CHPS) Program/Sustainability Initiatives and Energy and Water Plan Board Resolution

Attachments

Interim Progress Report No. 8 - Oakland Unified School District - California High Performance School (CHPS) Program/Sustainability Initiatives and Energy and Water Plan Resolutions.

Interim Progress Report #8 on OUSD CHPS Program / Sustainability Initiatives & Energy & Water Plan Board Resolutions
November-December 2011

Executive Summary

CHPS District-wide Program

Over the last four years, the Collaborative for High Performance Schools (CHPS) Criteria have been integrated into the design and construction of many Bond projects including: Chabot Elementary, Cox Elementary, Jefferson Elementary, Oakland High School, the Urban Promise Gym, and Highland Elementary. The La Escuelita Education Center (Phase 1,) is currently under construction. Montclair Elementary, Havenscourt, various Child Development Centers, and Washington Elementary, are utilizing the most recent CHPS 2009 Criteria as a basis for incorporating natural daylighting, energy and water efficiency, healthy, non-toxic building materials, improved indoor air quality, and acoustics among other high performance attributes. These projects are in various stages of progress, from Programming, Design to Construction phase.

As of January, 2011, the current High Performance School Incentive (HPI) Grant funding program includes a Base Incentive Grant , or "BIG*" of \$250,000 for all eligible state funded projects, in addition to high performance incentives of 2-10% of state allocations based on number of HPI points achieved. All of our significant Bond measure projects are designed to meet the Districts guidelines, with a minimum of 41 points, and some beginning to exceed that, garnering 50 or more points, for Modernizations (and 64 for New construction,) for the highest level of CHPS achievement, called "CHPS Leader." **OUSD Facilities staff have been successful in submitting for over \$600,000 in extra HPI Incentive Grant funding for our high performance schools, and anticipate another \$250,000* for each eligible site, for a current project total of \$500,000 in HPI Base Incentive (BIG*) Grants, totaling over a Million dollars in expected funding thus far.** The recent sale of Statewide Bond should allow funding for our "Unfunded Approvals" to flow, shortly.

Current High Performance School Incentive Grant funding is as follows:

	PROJECT	TYPE	PTS.	HPI \$	+BIG *\$
Projects with Apportionments:	Chabot ES (ORG project)		40.5	\$ 25,484	
Projects with Unfunded Approvals:	Oakland HS	(MOD)	43	\$455,762	
	Oakland HS	(ORG)	43	\$ 93,745	
	Highland ES	(MOD)	55	\$ 54,788	+\$250,000* = \$304,788
Projects submitted to OPSC & Under Review:	Cox ES	(ORG)	42	pending review	
	Highland ES	(ORG)	55	pending review	
	La Escuelita	(MOD)	54	" "	+\$250,000*
	La Escuelita	(ORG)	54	pending review	
	La Escuelita Ph.1 (NC)		54	pending review	
	La Escuelita Ph. 2 (NC)		56	pending review	
Estimated :				\$629,779	+ \$500,000* = \$1.1 M.



Jefferson ES

Featured Sustainability/CHPS Designed Project: Jefferson Elementary

The newly completed Jefferson Elementary School project includes replacement of old portables with a new two-story, twelve classroom building with small multi-purpose assembly room. It was planned as a 'CHPS Designed' self-certified project, targeting 37 points over all six categories: sustainable site, water efficiency, energy efficiency, materials efficiency, indoor environmental quality, and CHPS Policies and Operations. Its energy performance was calculated to be close to

20% better than Title 24 requirements. Construction was completed in time for the start of this 2010-11 school year, and has been well-received by the school community. In place of dilapidated portable classrooms, on a crowded site, the school gained a brand new two-story CHPS-rated classroom building with, a new multi-purpose assembly facility, and existing school site improvements.

Some of the other most notable sustainable design features include: excellent natural daylighting of the classrooms, use of thermal displacement ventilation for quiet, thermal comfort, use of water efficient plumbing fixtures, low energy strategies such as a cool roof, highly insulated walls and windows, and energy efficient lighting with photosensor controls throughout the new building. The interiors specified low VOC paints, sealants, and finish materials for better indoor air quality, with linoleum flooring for rapidly renewable materials sourcing. The project sought 75% construction waste diverted from landfill. HKIT Architects, a local Oakland based architecture and planning firm designed this latest completed CHPS project for the District. The construction firm, also joint ventured with a local contractor and met our local business goals. The following images depict Jefferson's **Educational Display**, a required Prerequisite for all our CHPS-rated projects, located at the entrance to the building, **featuring the high performance aspects of the typical new classrooms**. The abundant natural light, provided through windows without glare or excessive heat gain, is apparent in all the spaces. The benefits of this new CHPS Designed building are: energy efficiency/better energy performance, water efficiency, reduced waste and materials efficiencies, and improved indoor air quality/thermal comfort. In addition to operational cost savings, the combination of natural daylighting in the classrooms and superior indoor environmental quality, leads to higher academic performance, greater attendance by both students and staff due to healthier indoor air, and improved school culture.

"BETTER BUILDINGS. BETTER PERFORMANCE. BETTER STUDENTS."



CHPS COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS



HOK ARCHITECTS ARCHITECTURE THAT ENRICHES THE COMMUNITY AND ENVIRONMENT

Jefferson ES CHPS Educational Display



Jefferson ES New Classroom



Jefferson ES Small Multi-Purpose Assembly Room and Upper Floor Bay Windows & Sunshading

Highlights of Other District Sustainability Initiatives:

Waste Reduction

Earlier this Fall, OUSD extended a consultant contract to Nancy Deming to continue her recycling and composting efforts as a Program Manager for Sustainability Initiatives, under the supervision of Director of Custodial Services, Roland Broach, to assist in coordinating our Waste Reduction Initiative. In addition to supporting the Division's Green Gloves Waste Reduction Program at the site levels, and coordinating other resources, this Custodial Services program includes support for the OUSD Cafeteria Food Scrap Programs, currently focused at elementary schools, middle schools, and school cafeterias, the Prescott central kitchen, and other school cooking kitchens. Future schools to be targeted this year, in addition to Skyline High, Greenleaf, Laurel, and Lazear, are in development.

Sustainability Coordinator/Manager

The Division hopes to establish a full-time Sustainability Coordinator/Manager position under the supervision of the Associate Superintendent of Facilities Planning and Management. The primary focus of this new position is to leverage the benefits of new CHPS projects in: reducing operating expenses and eliminating waste, increasing energy and water efficiencies, increasing academic performance and productivity through natural daylighting and better indoor air quality, improving the health/wellness of our students and staff, and thus, indirectly increase ADA revenues, and more. This Coordinator could also work to align District efforts with outside initiatives such as the ACOE's Leadership in Energy Efficiency Program (ACOE LEEP) and other grant funded initiatives.

The long term goal is to promote and improve overall organizational sustainability through energy (carbon) savings and other operational performance metrics, through the High Performance

(CHPS) Schools Program, as well as provide behavioral change guidance at the site level, environmental education support, recognition and shared benefits amongst all responsible parties.

Energy and Water Plan Update

Last year, the Division began to partner with PG&E to develop a Strategic Energy Efficiency Master Plan to 'fill-in' on existing energy audits for all District existing sites in order to identify and prioritize cost-effective energy efficiency projects throughout the District, as part of its overall Sustainability goal of improving our **existing** facilities. Details of scope completed by PG&E are yet to be released to OUSD. The District will most likely, update its Energy and Water Plan, first created in 2007.

Grants and Funding

Grants awarded

A. Dept. of Energy (DOE) Solar America Showcase Technical Assistance Grant – recently completed. **OUSD Solar Master Plan was released at the end of 2011.**

See www.heliosproject.net

B. ACOE won a PG&E Energy Efficiency Innovator's grant for 2 Energy Managers for 15 Districts, called ACOE 'LEEP', Leadership in Energy Efficiency Program. The program managers plan to work with OUSD in the next few months.

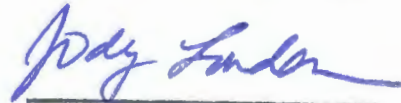
C. PG&E Zero Net Energy Innovator Pilot Project – Commercial/District category, for Fremont H.S. **Scope of work has been developed for \$200,000-300,000 of Technical Assistance from PG&E's Zero Net Energy (ZNE) Technical Teams to work in collaboration with OUSD's Design Team. The RFQ for the project of Sustainable/ZNE Campus Master Planning and Design of the new ZNE Gym and Classroom Building with football field for Fremont HS is currently on the website and design team selection in process.**

Other Grant Application Determinations

A. CA Air Resources Board (ARB) 2011 research grant for developing a model K-12 sustainability framework, including climate action plans, and piloting on OUSD—Not awarded.

B. 2011 PG&E Energy Efficiency Innovator Pilot for 'Sustainable Oakland Unified and Grid Neutral Downtown Educational Complex', to fund and establish a Sustainability Program including development of an OUSD greenhouse gas (GHG) emissions baseline inventory, model climate action plan, and tracking/reporting over two years, plus monitoring and education program integration of solar energy /grid neutral project—partially awarded by PG&E Green Communities in July, later rescinded.

C. ACOE applied for additional (2011) PG&E Energy Efficiency Innovator's grant for seed money to start a Revolving Loan Fund (RLF) for Energy Efficiency project planning, design, financial analysis, and soft costs to be utilized by all Districts participating in the LEEP program (Grant Item B. above.)—Not Awarded.



Jody London
President, Board of Education

4/2/12



Edgar Rakestraw, Jr., Secretary
Board of Education

4/2/12

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