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July 23, 2008

To: Each Supervisor

From: Tom Tindall *Tom Tindall*
Interim Director

Subject: **ENERGY & ENVIRONMENTAL POLICY TEAM REPORT**

This memo provides an update on the accomplishments and activities of the Energy and Environmental Policy Team (Team) created through your Board's approval of the Countywide Energy and Environmental Policy (Policy) on January 16, 2007.

TEAM ORGANIZATION

The Team is led by the ISD and includes representatives from County Counsel, Chief Executive Office, Department of Public Works, Department of Parks and Recreation, Sheriff's Department, Public Library Department, Department of Health Services, Department of Public Health, Department of Community and Senior Services, Community Development Commission, Southern California Edison, Southern California Gas Company, and the Los Angeles Department of Water & Power.

The Team meets bi-monthly. Working committees have been established within each program area listed below and meet as necessary to accomplish the goals of the Policy.

- Energy and Water Efficiency Program
- Green Building Operations Program
- Environmental Stewardship Program
- Public Education & Outreach Program

Under the Policy, the Team develops energy and environmental programs for implementation into County facilities and operations. The Team also supports other departments on investigations and programs initiated by the Board including those that impact constituents Countywide or in County unincorporated areas.

RECENT ACCOMPLISHMENTS

The last report was submitted on February 21, 2008. The following is a summary of significant activities and accomplishments since that report.

- On November 6, 2007, your Board directed the CEO to report back annually on the direct savings generated by the County's energy efficiency projects. The attachment to this report responds to your Board's direction. Further information about the number, type, location and benefits of these projects can be found at <http://green.lacounty.gov>.
- The Team continues to monitor the statewide regulatory activities underway to implement AB 32, California's Global Warming Solutions Act. Two key documents have been published by the California Air Resources Board (CARB) for public comment. The Draft Local Government Operations Protocol provides methodologies for all local governments to develop a greenhouse gas report for internal operations. The Climate Change Draft Scoping Plan provides the "roadmap" for achieving statewide greenhouse gas reductions including quantities to be reduced by sector. An initial update report on AB 32 activities was sent to your Board on April 10, 2008 and a more current update is included in the attachment to this report.
- Team members are representing the County on a task force seeking to develop a Los Angeles Regional Collaborative for Climate Action and Sustainability. The goal of the Collaborative is to assemble regional organizations (public and private) to work together to effectively address climate change and foster, build and maintain sustainable communities. The task force includes participants from the County, City of Los Angeles, Los Angeles Unified School District, Metropolitan Transit Authority, Metropolitan Water District, UCLA, USC, Los Angeles Chamber of Commerce, and environmental advocacy organizations.
- On May 19, 2008, the CEO submitted to your Board a report which confirmed the feasibility of developing a pilot program to provide energy efficiency certifications and energy performance benchmarking for existing buildings throughout the County. These programs are proposed to be developed in conjunction with the implementation of statewide programs designed to meet the requirements of AB 32.
- The Chief Information Office (CIO) and ISD are investigating the feasibility of establishing a countywide "solar mapping" portal. The Solar Map would combine data from the CIO's countywide aerial imagery mapping project with solar energy measuring software to calculate energy savings from solar projects installed on building rooftops. The information would be made available on the internet and

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would allow any building owner in the County (residential or commercial) to quickly receive information about the viability of installing a solar project.

- The Team, through ISD, has developed an internal website at <http://green.lacounty.gov> that describes County energy and environmental policies, programs, projects and activities. The website also includes a "digital dashboard" which shows progress towards the County energy efficiency program goal of reducing consumption 20% by 2015.
- The Team continues to support a variety of programs to include:
 - The implementation of an ordinance to phase-in green building certification, low impact design standards and drought tolerant landscaping for private development in unincorporated County (led by Regional Planning and Public Works).
 - The implementation of the County Capital Construction Program to certify new County buildings (>10,000 square feet) at the United States Green Building Council's LEED Silver level (led by the CEO and Public Works).
 - The tracking available local government funding for energy efficiency and climate change programs under the 2007 Federal Energy Bill and under a potential, national climate change bill (led by the CEO Intergovernmental Relations).
 - The limitation or ban on polystyrene food containers and plastic bags (led by the CEO and Public Works).
 - The creation of a Countywide Green Leadership Award to recognize individual and organizational achievements in environmental stewardship (led by the CEO).

Further details on these and additional Team activities and accomplishments are included as an attachment. If you have any questions, please contact me at (323) 267-2103 or Howard Choy at (323) 881-3939.

TT:h

Attachment

c: William T Fujioka, CEO
Ellen Sandt, DCEO Operations
ISD Board Deputies
[Department Heads](#)

ATTACHMENT

Key Activities and Accomplishments of the Energy & Environmental Policy Team July 23, 2008

This document provides information on the activities and accomplishments of the Energy and Environmental Policy Team (Team). The Team was created by the Board on January 16, 2007, when it adopted the Countywide Energy and Environmental Policy (Policy). The information in this attachment is presented under four main headings consistent with the Policy program areas:

- Energy & Water Efficiency
- Green Building Operations
- Environmental Stewardship
- Public Education & Outreach

ENERGY & WATER EFFICIENCY PROGRAM

This program seeks to reduce County facilities energy and water consumption and to meet the Policy's stated goal of 20% energy consumption reduction by 2015. In addition to the retrofit and retro-commissioning projects managed by ISD, energy savings will also be tracked through projects implemented by other departments, maintenance jobs that utilize efficient equipment, and new projects that specify higher efficiency equipment than normal.

The cumulative energy savings results for projects managed by ISD are included in the tables below and are described in more detail at the County's Energy & Environmental website. At the website, information is provided on progress towards the County's goal to reduce energy consumption by 20% by 2015. We are about 15% of the way towards accomplishing the goal.

Direct Savings from Energy Efficiency Projects

ISD serves as the County's central agency responsible for energy management issues, including implementing an energy efficiency projects program for County buildings. This program has been in place since FY 1994-95. The results of the program through FY 2007-08 are summarized in the table below.

Type of Project	# of Projects	Project Costs (millions)	Cumulative Savings (millions)
Lighting Retrofits	282	\$28.0	\$104.2
Lighting Controls	14	\$3.2	\$5.1
Heating/Air Conditioning Retrofits	32	\$16.2	\$13.6
Building Retro-commissioning	24	\$4.3	\$5.8
Totals	352	\$51.7	\$128.7

The table below shows energy project costs and savings realized by individual County departments.

Selected Projects in Grouping	Cost (\$)	Cost Savings (\$)		Summary
Department Name	Construction Cost (\$)	Electricity (\$)	Fuel (\$)	Overall Utility Savings (\$)
ADMINISTRATION OFFICES	\$3,937,603	\$11,705,019	\$740,587	\$12,445,606
AGRICULTURAL/W&M	\$62,644	\$404,534	\$0	\$404,534
ANIMAL CONTROL	\$157,084	\$400,067	\$0	\$400,067
ASSESSOR	\$111,265	\$431,683	\$0	\$431,683
CHILDRENS SERVICES	\$543,186	\$1,721,907	\$0	\$1,721,907
COMMUNITY SERVICES	\$19,598	\$42,655	\$0	\$42,655
DCFS/DPSS	\$401,771	\$985,950	\$0	\$985,950
DPSS	\$4,223,897	\$8,814,655	\$72,031	\$8,886,686
FIRE DEPARTMENT	\$450,949	\$1,081,049	\$0	\$1,081,049
HEALTH SERVICES	\$6,626,321	\$15,112,812	\$0	\$15,112,812
ISD	\$1,505,430	\$2,040,707	\$0	\$2,040,707
LIBRARY	\$767,566	\$1,060,202	\$99,027	\$1,159,229
MENTAL HEALTH	\$99,161	\$587,871	\$0	\$587,871
MUNICIPAL COURTS	\$6,290,112	\$10,936,231	\$530,300	\$11,466,530
PROBATION	\$3,093,397	\$4,213,066	\$0	\$4,213,066
PROBATION/ITS	\$855,725	\$9,768,350	\$0	\$9,768,350
REGISTRAR-RECORDER	\$1,198,756	\$3,101,676	\$0	\$3,101,676
SHERIFF	\$4,757,867	\$12,670,005	\$0	\$12,670,005
SUPERIOR COURTS	\$10,351,401	\$19,527,620	\$407,058	\$19,934,678
TRAFFIC COURTS	\$274,347	\$47,867	\$18,776	\$66,643
VARIOUS	\$6,016,721	\$22,094,894	\$10,011	\$22,104,904
GRAND TOTAL	\$51,744,800	\$126,748,824	\$1,877,790	\$128,626,616

A list of all of the projects implemented by ISD (including specific locations, project types and project specific costs and savings) can be found at the County Energy & Environmental website: <http://green.lacounty.gov/energy.asp>.

The tables do not represent all of the energy efficiency savings realized throughout the County as some departments implement projects on their own and those are not yet included in ISD's energy projects database. ISD is working with all departments to identify their energy savings projects and to include them in the database. ISD is also meeting with departments to offer project incentives using various funding sources so that more projects may be implemented.

Funding for the projects has been provided by budget appropriations, project financing, grants and utility incentives. ISD is currently managing new projects using State funding through its partnership with Southern California Edison and The Gas Company. Additionally, ISD will utilize anticipated litigation settlement funds in

FY 2008-09 and FY 2009-10 to implement energy efficiency projects primarily in Department of Health Services and Sheriff's facilities in Los Angeles Department of Water & Power service territory. We anticipate that future years' projects will continue to be funded by the County, through the State-funded utility partnership, with 3rd party energy project financing, and with Federal funding.

Water Efficiency and Conservation

On June 26, 2008, the Department of Public Works (DPW) sent a report to the Board recommending actions the County can take in response to the Governor's Statewide Drought Proclamation. The recommended actions are listed below. The Team will assist in developing a program to adopt best management practices, implement water efficiency measures throughout County facilities and track water savings achieved (items 6 and 7).

1. Declare a Countywide Water Supply and Conservation Alert urging County residents, businesses, and cities to intensify water conservation efforts to achieve a 15 to 20 percent reduction in water demand.
2. Update and adopt a Water Wasting Ordinance for unincorporated County areas and the Waterworks District's Phased Water Conservation Plan.
3. Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.
4. Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.
5. Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision which provides a comprehensive, sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.
6. Direct the Chief Executive Officer through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, DPW, DPR, Fire, Sheriff, and other appropriate departments to develop a recycled, non-potable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies. The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.
7. Direct the Chief Executive Officer, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including LEED and LID, to develop a water conservation policy applicable to the retrofit, refurbishment, and new construction of County facilities and grounds.

GREEN BUILDING OPERATIONS PROGRAM

The Policy directed the CEO and Public Works to develop a sustainable design program for the County's Capital Construction Program and promote sustainable County operations practices. The Policy instructed the Team to provide support to this effort in the form of technical expertise in building operations and maintenance, environmental programs, and energy and water efficiency.

Standardized Building Automation Systems in New County Facilities

ISD and Public Works are implementing building automation system standards for new County buildings. These standards will ensure automation systems for air conditioning, lighting, and other building systems will be compatible with centralized building management and monitoring systems. These standards will also ensure compatibility with the ISD's EEMIS (Enterprise Energy Management Information System). EEMIS allows monitoring, archiving and reporting of facility operating information, including energy consumption and building equipment operating trends, through the internet. A demonstration of how EEMIS works can be found at the County's Energy & Environmental website: http://green.lacounty.gov/cms1_089395.asp#TopOfPage.

LEED EB (Existing Building) Studies

The Team has sponsored studies which evaluate the feasibility of certifying two County facilities under LEED EB: ISD Administration Headquarters and Public Works Headquarters Tower. LEED for existing buildings focuses on operation and maintenance practices such as: site sustainability, water and energy efficiency, indoor air quality, source waste reduction and waste diversion. Both studies conclude that LEED EB certification is feasible and recommend proceeding with certification. ISD and Public Works are currently seeking funding to implement LEED certification in their headquarters buildings.

ENVIRONMENTAL STEWARDSHIP PROGRAMS

These programs are intended to reduce the County's "environmental footprint" including reducing the amount of greenhouse gases produced, reducing the amount of source waste produced and increasing the amount of waste diverted from landfills as a result of County operations. County greenhouse gas reporting activities and legislative and regulatory tracking are also being coordinated within this program.

Greenhouse Gas Reporting

The County has joined the California Climate Action Registry (Registry) and has submitted a report quantifying the amount of carbon dioxide (CO₂) emissions produced in 2006 due to internal County operations from electricity use, stationary combustion fuels, and mobile combustion fuels. A report for 2007 operations is being developed.

The County, through ISD, has also joined ICLEI – Local Governments for Sustainability. ICLEI is an international association of local governments and national and regional local government organizations that have made a commitment to sustainable development. More than 880 cities, towns, counties, and their associations worldwide comprise ICLEI's membership. ICLEI provides technical consulting, training, and information services to build capacity, share knowledge, and support local government in the implementation of sustainable development at the local level.

ICLEI's program and project protocols will help the County evaluate the greenhouse gas savings benefits of the County's existing energy and environmental programs. In addition, ICLEI will help the County evaluate the greenhouse gas savings features of large projects and developments throughout the County.

ICLEI will also work with the County, and other local governments within the County, to investigate and develop a regional greenhouse gas report and mitigation strategy for the entire County.

Climate Change Regulatory and Legislative Activity – AB 32 Update

The California Air Resources Board (CARB) is the lead agency responsible for overseeing the implementation of AB 32's mandate to lower GHG emissions to 1990 levels by 2020. This June, CARB released two draft documents: the Draft Local Government Operations Protocol and the Climate Change Draft Scoping Plan.

Local Government Operations Protocol (Protocol)

The Protocol includes the procedures under which local governments may voluntarily report their greenhouse gas responsibility for internal operations. The Protocol defines the operational and financial criteria under which local governments are deemed to have control over greenhouse gas production. The Protocol also describes the methodologies for which greenhouse gases are to be measured in the following categories:

- Indirect emissions through facility electricity use.
- Direct emissions through stationary combustion at facilities.
- Emissions from mobile transportation.
- Refrigerant emissions from building and fleet air conditioning.
- Direct emissions from cogeneration/heating/refrigeration plants.
- Emissions from wastewater treatment plants.
- Emissions from landfills.
- Other indirect emissions as a result of: business travel, employee commuting, contracted services, purchases.

For now, all reporting by local governments under this Protocol are voluntary. The Protocol serves only as a statewide standard for calculating and classifying emissions. However, the County's three cogeneration plants at Pitchess Jail, Civic Center, and

Olive View Hospital will be required to complete annual emissions reports because of their size.

The Team is reviewing the Protocol and will provide comments to CARB and participate in public workshops and the formal proceedings to adopt the Protocol. The Draft Protocol may be found at: <http://www.arb.ca.gov/cc/protocols/localgov/localgov.htm>.

Climate Change Draft Scoping Plan (Scoping Plan)

The Scoping Plan is the State's "roadmap" indicating how and where greenhouse gas emissions reductions required under AB 32 will be achieved. It lists the amount of greenhouse gas emissions expected to be reduced through a variety of sector strategies. A large proportion of the emissions reductions will come from the transportation, electricity, natural gas, and large industrial sectors. For these sectors, emissions reductions would be achieved through a "cap-and-trade" program working in concert with traditional regulatory programs.

A "cap-and-trade" program would cap emissions from the largest greenhouse gas emitters beginning in 2012. Once the cap is established, CARB will determine the total amount of allowances – permits to emit a specified quantity of carbon – available in the program. CARB will likely freely allocate some allowances to the large emitters. Shortly thereafter, a majority of the allowances will be available through a statewide or regional auction and in combination with a carbon trading market. Regulated sectors/emitters will modify their operations or purchase allowances to reach their greenhouse gas targets. Entities that exceed their greenhouse gas goals or implement verifiable programs that reduce greenhouse gases may sell those reductions as "offsets" into the program or a carbon market.

The table below provides an indication of the amount of sector emissions produced in the State and where they are projected to be in 2020 without AB 32. The emissions are in millions of tons of carbon dioxide equivalents: MMTCO₂E. CARB has identified that 169 MMTCO₂E must be reduced from the 2020 projection in order to achieve 1990 levels of greenhouse gas production.

<u>Sector</u>	<u>2002-04 Average Emissions (MMTCO₂E)</u>	<u>Projected 2020 Emissions (absent AB 32) (MMTCO₂E)</u>
Transportation	179.3	225.4
Electricity	109.0	139.2
Commercial and Residential Buildings	41.0	46.7
Industrial	95.9	100.5
Recycling and Waste	5.6	7.7
High Global Warming Potential Gases (e.g., refrigerants)	14.8	46.9
Agriculture	27.7	29.8
Forest Net Emissions	-4.7	0.0
Emissions Total	469	596

The next table is from the Draft Scoping Plan and indicates which strategies are expected to produce the bulk of the required greenhouse gas emissions reductions by 2020. It shows that required modifications to light-duty vehicles sold in the State are expected. However, the State is awaiting approval from the Federal EPA in order to implement these restrictions. Under energy efficiency, most savings will be realized through revised building codes for new and existing buildings and through enhanced energy efficiency programs. Cogeneration (Combined Heat & Power - CHP) is listed as an important strategy. The County has significant cogeneration potential in its larger facilities (hospitals, jails, probation camps, data centers). The State's utilities will be expected to increase the amount of renewable resources in their energy supply portfolios (33% instead of 20% by 2020). Local governments are specifically identified to achieve a small amount of greenhouse gas emissions (2 MMTCO₂E) primarily through local and regional planning requirements and internal operations enhancements. Regulations for each program continue to be developed in the State's various regulatory agencies.

<u>Recommended Reduction Strategy</u>	<u>2020 Reductions (MMTCO₂E)</u>
AB 32 Required Emissions Reductions to Achieve 1990 Levels	169.0
California Light-Duty Vehicle GHG Standards* <ul style="list-style-type: none"> • Implement existing, legislated efficiency standards on vehicle manufacturers (Pavley I – pending EPA approval) • Implement Phase II GHG standards on vehicle manufacturers (Pavley II) * described in more detail in the Draft Scoping Plan (p. 20)	31.7
Energy Efficiency <ul style="list-style-type: none"> • Existing and new building and appliance energy efficiency and conservation • Increased cogeneration (Combined Heat & Power – CHP) • Solar Water Heating (AB 1470) 	26.4
Increase Utilities Renewable Portfolio Standard (from 20% to 33%)	21.2
Low Carbon Fuel Standard	16.5
High Global Warming Potential Gas Measures	16.2
Sustainable Forestry	5
Water Sector Measures	4.8
Vehicle Efficiency Measures	4.8
Goods Movement <ul style="list-style-type: none"> • Ship Electrification at Ports • System-wide Efficiency Improvements 	3.7
Heavy/Medium Duty Vehicles <ul style="list-style-type: none"> • Aerodynamic Efficiency • Vehicle Hybridization • Engine Efficiency 	2.5
Million Solar Roofs (Existing Program)	2.1
Local Government Actions and Regional Targets (Primarily through Land Use Planning)	2
High Speed Rail	1
Landfill Methane Control	1
Methane Capture at Dairies	1

The Team will consolidate comments on the Draft Scoping Plan and provide them to CARB in August of this year. Initial questions and comments that the Team will consider include:

- Should the County support, not support or remain neutral on the proposed “cap-and-trade” market?
- Should the County provide comments on the California Light-Duty Vehicle Standards strategy which requires manufacturers to provide the most efficient vehicles technically feasible; if this is not approved by the Federal EPA, alternative measures are contemplated that include:
 - Requiring vehicle manufacturers to meet expected emission reductions from other sources as a condition of vehicle certification in the State, and
 - Levying fees on the purchase of less efficient vehicles to be used as rebates on the purchase of more efficient vehicles.
- Funding programs which support more efficient new and existing buildings should include the role of local governments; these include: implementing internal and regional energy efficiency programs, implementing green building ordinances, enforcing new codes, promoting and marketing State programs.
- A significant stumbling block to implementing more cogeneration power plants has been the state’s electric utilities. Specific problem areas need to be re-assessed.
- How will the benefits of local government programs which are already under development or being implemented be measured, validated and certified as emissions reductions that either contribute to the State’s goal or be made available in emissions markets?
- The reductions anticipated from local governments land use planning programs are relatively small (2 MMTCO₂); this reflects a very low expectation that Regional Planning can impact the region’s Vehicle Miles Traveled.
- Are the public health benefits being accurately and completely considered in the prioritization of these strategies?

The Draft Scoping Plan can be found at:

<http://www.arb.ca.gov/cc/scopingplan/document/draftscopingplan.htm>

PUBLIC EDUCATION AND OUTREACH

This program utilizes the County’s communication and outreach channels to share utility industry information, facilitate implementation of subsidy and assistance programs, and spread energy conservation practices throughout the region.

Los Angeles Regional Collaborative for Climate Action and Sustainability

An important issue that is being discussed throughout the State revolves around how public agencies, educational institutions, research centers, businesses, environmental groups and others can collaborate on developing regional strategies, policies and implementation plans to reduce greenhouse gas production.

Representatives from ISD, Public Works, and the Board are representing the County on a task force seeking to develop a Los Angeles Regional Collaborative for Climate Action and Sustainability. The task force has drafted a Charter for this potential Collaborative.

The next steps of the task force are to continue to refine the Charter, develop specific tasks or projects that can and should be immediately undertaken and describe their benefits, identify and establish the Collaborative organizational and operational structure, and develop plans to promote the Collaborative and enroll members.

The task force was established and coordinated by a consultant, Next 10, using a private grant. Next 10 led the creation of a similar, regional organization: Sustainable Silicon Valley - <http://www.sustainablesiliconvalley.org/>. In addition to the County, the task force includes participants from the City of Los Angeles, Los Angeles Unified School District, Metropolitan Transit Authority, Metropolitan Water District, UCLA, USC, the Los Angeles Chamber of Commerce and other environmental organizations.

Existing Building Performance Certification and Benchmarking

On May 19, 2008, the CEO submitted to your Board a report, prepared by the Team, which confirmed the feasibility of developing a "Healthy Building and Energy Savings Certificate" or other building benchmark based on a model developed under the United Kingdom's 2007 Energy Efficiency Action Plan. The report describes a potential County pilot program which would provide energy performance certification in existing homes and energy benchmarking in existing commercial buildings. This pilot program is proposed to be developed in conjunction with State programs to implement energy performance certificates and benchmarking for existing buildings as part of the Climate Action Plan.

The California Energy Commission (CEC) and the California Public Utilities Commission (CPUC) recognize that substantial opportunities remain to cost-effectively improve the efficiency of existing buildings, particularly in older homes and commercial buildings. The CEC has prepared a collaborative action plan which seeks to increase energy efficiency in all building sectors through a combination of enhanced technologies, stricter building codes, increased consumer education, awareness and a program of financial incentives. This Plan also includes development and implementation of residential and commercial building energy performance ratings or benchmarks through two programs: the Residential Time-of-Sale Information Disclosure Program and the Commercial Building Benchmarking Program.

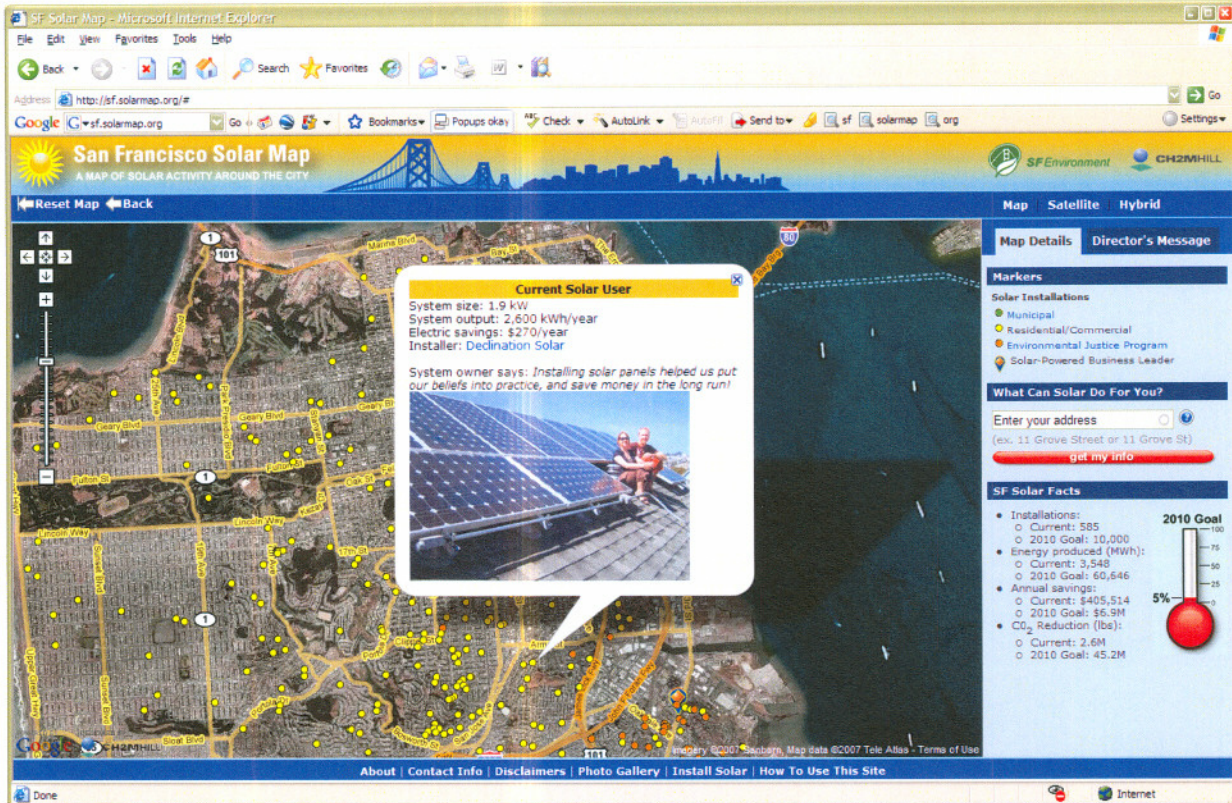
Under the Residential Time-of-Sale Information Disclosure Program, the State has established a program where sellers and buyers can have homes certified for energy efficiency performance using State approved procedures and contractors. Currently the programs are voluntary and are not well known. A potential County pilot program could mandate these certifications, provide further assistance, or make them easier to use.

Under the Commercial Building Benchmarking Program, commercial building owners are required by law (AB 1103) to provide an energy performance benchmark to prospective tenants or buyers. This program is not well known and many enforcement details are not yet determined. A potential County pilot program would provide building owners further assistance in utilizing the tools to benchmark their buildings.

The May report to the Board which can be found at: <http://green.lacounty.gov>, recommended that any County pilot program to assist the State in expediting residential energy performance ratings and commercial building benchmarking be done in conjunction with the CEC's and CPUC's programs. These State programs are being developed and will be enhanced under the plan laid out in the Climate Change Draft Scoping Plan.

Solar Mapping Project

Under a pilot program managed by the CIO and funded by an Information Technology Infrastructure Investment Fund Grant, the CIO and ISD will develop and deploy a Solar Map for Los Angeles County residents. A Solar Map utilizes existing aerial imagery, solar potential software and a solar engineering model to provide solar installation information for any building. San Francisco has developed a Solar Map web site that provides this information to building owners in the area. By typing in an address, residents and businesses are given the information to support their decision to install solar systems. An example of the information provided shown below. Their website is at <http://www.sf.solarmap.org>.



Under phase one of the County's pilot, the Solar Map will be utilized to develop detailed solar potential models (solar power and water heating) for County-owned facilities utilizing detailed building information contained in an existing aerial imagery database. A detailed solar potential estimate and return on investment calculation will be developed for County-owned buildings.

The second phase of the pilot will develop summary level solar potential information for every building in the County that is contained in the aerial imagery database. A website will then be established, which will provide general information on cost and benefits, where to obtain additional information and how to get started implementing a project. Depending on future costs, it may be possible to provide the detailed solar potential information for certain or all building owners – or to provide the detailed information to residents of cities with ongoing solar implementation programs (e.g., Santa Monica and Pasadena). ISD will work with the State, local utilities and other local governments to develop a solar web portal that will be useful to all constituents.