



TOM TINDALL  
Director

## County of Los Angeles INTERNAL SERVICES DEPARTMENT

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*"To enrich lives through effective and caring service"*

August 8, 2012

To: Each Supervisor

From: Tom Tindall  
Director

Subject: **ENERGY & ENVIRONMENTAL POLICY REPORT #12**

This memo provides an update on the accomplishments and activities under the Countywide Energy and Environmental Policy (Policy) that your Board approved on January 16, 2007. This report also discusses the County Office of Sustainability (COS) within the Internal Services Department (ISD) and its work to support the Policy.

In September 2009, your Board approved the creation of the County Office of Sustainability within ISD to respond to legislation, regulation, and policy related to climate change, and to coordinate energy efficiency, conservation, and sustainability programs within the County and the region. ISD is also administering American Recovery and Reinvestment Act (ARRA) grants related to countywide energy efficiency programs, including:

- \$15.4 million from the formula-allocated Energy Efficiency and Conservation Block Grant (EECBG);
- \$9.2 million from the California Energy Commission's (CEC) Energy Efficiency and Conservation Block Grant funds;
- \$14 million from the \$30 million Competitive Energy Efficiency and Conservation Block Grant, termed Better Buildings Program (BBP), awarded to the County and three other California regional entities.

### **RECENT ACCOMPLISHMENTS**

The last report was issued on February 7, 2012. The following is a summary of significant activities and accomplishments since that report.

- A portion of the formula-allocated EECBG funds have been designated to develop, implement, and administer Energy Upgrade California in Los Angeles County (EUC-LAC), a public-facing incentive program that provides homeowners with rebates to offset the cost of energy efficiency upgrades to their homes. The County is working to develop and implement various programs to support EUC-LAC and ensure its success. ISD oversees marketing, public outreach, participant recruitment, workforce development, and incentive administration efforts associated with EUC-LAC. Updates on EUC-LAC and its sub-programs are provided to your Board

monthly, including the number of incentive applications received and processed, projected expenditures, and major activities completed. More information about the program can be found at [www.energyupgradeca.org](http://www.energyupgradeca.org).

- New funding:
  - On June 15, 2010, your Board authorized the acceptance of an intergovernmental contract with the California Energy Commission (CEC) and authorized the Director of ISD to approve any modifications or amendments to the contract. Under the CEC funding, ISD worked to expand comprehensive marketing efforts into cities throughout the County by working with the Councils of Governments and directly with other local governments. The initial work scope was completed in June and the County completed the necessary close-out process and submitted a final report to the CEC.
  - On March 6, 2012, your Board authorized an amendment to the intergovernmental contract with the CEC to allow for up to an additional \$8 million in funding to support the expansion and establishment of various energy efficiency financing programs.
  - On April 17, 2012, your Board authorized an additional amendment that could potentially increase the funding provided by the CEC by an additional \$5 million to support an energy revolving loan fund for County projects.
- ISD and the Treasurer & Tax Collector (TTC) are working together to administer a countywide Property Assessed Clean Energy (PACE) program for non-residential properties. This non-residential PACE program was launched in October 2011, and ISD and TTC are implementing the program under the County's adopted PACE documentation. In March 2012, the County released a Request For Information (RFI) for services related to the expansion and administration of the County's PACE program. Six firms responded and provided proposals to the County detailing their recommended approach to develop a residential PACE program and to expand the existing non-residential program to more property owners. ISD has retained the services of a consultant to assist with administration of the PACE program and process project applications. To spur interest, ISD hired a marketing firm to recruit projects to the program, meet with potential participants, and create marketing materials.
- The formula-allocated EECBG includes funds to establish Environmental Service Centers around the County to provide information, materials, and resources to constituents about a range of County-sponsored and non-County sustainability and environmental programs. There are currently five fixed Environmental Information Centers where on-site County staff has been given an overview of the programs, and contract staff maintains literature racks with resources for the public. There are

also two fixed, staffed Environmental Service Centers that accept walk-in traffic and appointments for the public to learn more about available programs. Ten portable kiosks have been created to provide literature and a direct interface to <http://green.lacounty.gov>. These kiosks will be relocated on a quarterly rotation to allow the information to be accessed by constituents at various facilities across the County.

- A portion of the formula-allocated EECBG funds have been allocated to support the County's Green Building Program. These funds are to provide industry stakeholder and constituent outreach, as well as offer training for County staff related to Program requirements and implementation. Industry stakeholder trainings were held at various locations throughout the County between November 2011 and May 2012. More than 100 attendees participated in the half-day trainings. County staff training began in August 2011 with the provision of five introductory trainings attended by staff from the Departments of Regional Planning and Public Works. A second training course, designed specifically for staff from the Department of Public Works was held twice in May 2012 with more than 75 staff in attendance.
- ISD serves as the County's representative to the Los Angeles Regional Collaborative (LARC) for Climate Action and Sustainability. The LARC, in conjunction with UCLA and the City of Los Angeles, recently released a climate change impacts study that utilizes sophisticated projections to predict the potential impacts climate change will have in the Los Angeles region. The study, titled *Mid-century Warming in the Los Angeles Region*, and more information on future research can be found at [c-change.la](http://c-change.la). The LARC is also sponsoring the upcoming Southern California Sustainability Forum, an event aimed at convening regional stakeholders to discuss sustainability-oriented topics, identify priorities, and coordinate strategies to address regional issues. More information on the Forum can be found at <http://www.socalsustainabilityforum.com>.
- The LARC has partnered with the County in utilizing a portion of the County's formula-allocated EECBG to oversee the creation of a countywide Greenhouse Gas (GHG) Inventory. The Inventory, along with the climate change study referenced above, will serve as the scientific foundation for a Regional Climate Action Plan (RCAP) that will summarize and coordinate greenhouse gas reduction efforts countywide. ISD has contracted with a consultant to develop the Inventory and is working with a Technical Advisory Committee of LARC members to oversee the project. More information about the LARC and the RCAP can be found at <http://www.laregionalcollaborative.org>.
- To comply with Assembly Bill (AB) 32, ISD has prepared a Municipal GHG Emissions Inventory to support the development of an Emissions Reduction Plan for all County operations. ISD is developing a Municipal Climate Action Plan (MCAP), which will help guide how the County can reduce internal operations GHG emissions

by 15% by 2020. Proposed measures will also be included that create the potential to exceed the 15% GHG emissions through additional activities. The Inventory has been completed and the MCAP, including proposed reduction measures is in the final stages of development.

- As part of continued efforts to support efficiency improvements to existing County buildings, ISD is developing a County Green Building Program which will offer other departments turnkey LEED certification services, LEED feasibility assessments, technical support for departments seeking to perform their own LEED certification, as well as other green building measures implementation support. All of these new services complement ISD's existing Energy Management services. As part of the Green Building Program, ISD has also developed a Green Building Dashboard, which will provide County building managers the ability to monitor energy usage and other sustainability measures in selected key facilities. Development and implementation of the Energy Efficiency portion of the new dashboard has been completed and the site went live on June 29, 2012. At the same time the dashboard went live, it was also linked to the Green LA County website, so that it can be accessed by County Employees (only) <http://lacounty.mckinstry.com/phase2a>. The Energy Efficiency portion of the dashboard has fully-developed reporting tools, which link into the EEMIS data-gathering program, allowing ISD employees and other County facility managers to access historic, recent, and, in some cases, real-time energy use data.
- ISD and the CIO have enhanced the County's online Solar Map <http://solarmap.lacounty.gov>, which provides building owners in the County with information about solar power installations. The Solar Map utilizes data from the CIO's latest aerial imagery mapping project and solar power estimation software to provide preliminary savings information from a solar power project, information about project costs, installation details, and resources for information about solar technology and installations. Using formula EECBG funds, staff has significantly enhanced the Solar Map by allowing users to pinpoint specific areas of the rooftop that are most suitable for solar installations, creating printable reports, and translating the site into Spanish. Additional enhancements are underway that will integrate an energy efficiency calculator into the map allowing property owners to assess the potential reduction in energy consumption and utility savings that can be achieved through building upgrades.
- ISD is representing the County as a partnering agency under a \$700,000 DOE SunShot Grant to the California Center for Sustainable Energy (CCSE) in San Diego. The CCSE regional team will develop model rules for permitting and interconnection processes, identify regional issues and develop Best Practices for solar adoption. This grant was awarded in December 2011, and CCSE began work in early 2012, assisted by partnering agencies from Los Angeles, Riverside, and Orange counties. ISD has participated in various working groups on behalf of the

County and has reached out to other departments to support additional, topic-specific working groups. CCSE will present the findings of their work and recommended best practices in the coming months.

- Through the County's membership in the Local Government Sustainable Energy Coalition (LGSEC), the County and other member local governments are able to pool resources to more efficiently track, report on, and participate in key energy and environmental activities, including regulatory proceedings. Currently, LGSEC is actively participating in the development of the California Public Utilities Commission (CPUC) Energy Efficiency (EE) Program development for 2013-14. This proceeding will determine how approximately \$3 billion in ratepayer funding will be spent on EE programs. Through LGSEC, ISD also has been actively involved in a CPUC proceeding related to the expenditure of revenues generated from the cap-and-trade program resulting from Assembly Bill (AB) 32. Potentially, revenues generated from cap-and-trade could be used to support various local government programs, including programs similar to those currently overseen by ISD. On January 23, 2012, ISD submitted a report to your Board detailing the status of the proceeding, actions to date, and potential outcomes.
- ISD continued work under the California Public Utilities Commission's (CPUC) Long-Term Energy Efficiency Strategic Planning grant program managed by Southern California Edison (SCE). Under this program, ISD is using funding, in combination with approximately \$3 million received by other cities in SCE service territory, to expand the Enterprise Energy Management Information System (EEMIS – ISD's internet-based, real-time energy management program) for use by other local governments. Expanding EEMIS to other cities will spread energy management expertise across the region, reduce ISD's annual EEMIS operating costs, and generate revenues for ISD technical support and consulting services. ISD has executed memoranda-of-understanding with the South Bay Cities Council of Governments, the San Gabriel Valley Council of Governments, and individual cities (including the City of Los Angeles) and has begun technical work to implement EEMIS for their use. ISD is also providing training sessions for these cities. In addition, ISD is working with these organizations to develop and implement a regional centralized source for technical resources related to energy efficiency projects development, solicitation, implementation, and financing. The objective of these activities is to utilize one-time funding from SCE (through the CPUC), leverage ISD's energy management expertise and resources (like EEMIS), and develop a business model that will provide ongoing revenue streams to ISD through sharing these resources while helping other local jurisdictions enhance their energy management capabilities.
- ISD continues to implement energy savings projects, funded by grants and other sources, to reduce the County's energy cost. Current projects and efforts include:

- Retro-commissioning of the Downey Data Center, Mental Health Headquarters, Barry J. Nidorf Juvenile Hall and several smaller facilities. These retro-commissioning projects are essentially a “tune-up” of the heating, ventilating and air conditioning systems to ensure optimal performance, which in turn produces energy efficiency and utility savings.
- Continued implementation of a program to replace the current T-8 type fluorescent lamps with lower wattage, higher efficiency lamps throughout the County utilizing the Energy Investment Program (EIP) designed by ISD and approved by your Board. Projects will be implemented and the utility savings realized will then be used to re-invest into the fund until the project costs are fully recovered. It will continue to provide a funding source for additional energy projects and those cost savings will continue to replenish the fund.
- Ongoing coordination with various departments, including the Department of Public Works (DPW), Parks and Recreation and the Sheriff Department to assure that utility rebates are being captured for several energy efficiency projects, including lighting upgrades, computer server virtualization upgrades, and efficient pump replacement projects.
- Continued work with the Department of Health Services (DHS), using Board-authorized Capital Project funds, to replace old, inefficient boilers and to retrofit existing boilers to meet current South Coast Air Quality Management District requirements at the Olive View/UCLA Medical Center, Rancho Los Amigos National Rehabilitation Center, Harbor/UCLA Medical Center, and the LAC+USC Medical Center.
- Working in conjunction DPW with the for installation of a photo voltaic system, providing 750,000 kWh annually, at the Waterworks Division’s pumping station located in Lancaster approved by your Board on January 31, 2012. The project is currently under construction and is due to be completed by December 2012. The solar power generated on the site will be used to operate three wells and four booster pumps.
- Implementing a conversion of an existing system at the Pitchess Cogeneration Plant used to control emissions for the gas turbine generators, to use urea instead of hazardous anhydrous ammonia to improve safety. The main advantage of urea injection over ammonia injection is that urea is a nontoxic liquid that can be safely stored and handled.
- Installation of two 600 Horsepower variable frequency drives (VFD) at the Civic Center Cogeneration Plant. These VFD’s will control the main condenser water pumps used to provide cooling for many of the buildings

downtown. The conversion project will save 1.3 million kWh annually with an overall project payback of 1.8 years.

- ISD continues to assist other departments with various efforts in the areas of fleet and transportation, funded by grants and other sources, to reduce the County's GHG emissions. Current projects and efforts include:
  - ISD assisted the Sheriff Department in the writing and negotiating \$4.4 million Carl Moyer Program grant and award from the South Coast Air Quality Management District to replace 24 of its 82 Prisoner Transportation Buses. All 24 buses will produce half of the particulate matter (soot) and nitrous oxide produced by buses currently in use. The Sheriff is proceeding with procurement of the first 16 buses. ISD is assisting the Sheriff Department with project management and in fulfilling the technical and reporting terms and conditions of the grant.
  - ISD assisted the Sheriff Department in the writing of a second Carl Moyer Program grant for \$2.5 million from the South Coast Air Quality Management District (SCAQMD) to replace an additional 13 of its 82 Prisoner Transportation Buses.
  - Leveraging the CEC award to the SoCal EV Collaborative, ISD wrote and has been awarded up to \$250,000 in matching funds from the Mobile Source Air Pollution Reduction Review Committee (MSRC) to furnish and install electric vehicle (EV) charging infrastructure at various County sites. ISD assisted the cities of Anaheim, Long Beach, Pasadena, and Santa Monica with their grant applications to the MSRC for similar support.
  - ISD helped in drafting the successful statewide collaborative application for the Department of Energy's Clean Cities Community Readiness and Planning for Plug-In Electric Vehicles (PEV) and Charging Infrastructure Grant. The statewide application received the maximum award of \$1 million. ISD provided significant input in the development of various materials and toolkits developed by the PEV Collaborative's Statewide Planning and Implementation team. For more information on this effort, please go to <http://www.pevcollaborative.org/policy-makers>.
  - ISD played a significant role in the Southern California Association of Governments' (SCAG) successful regional plans to support PEV-Readiness Grant application from the California Energy Commission. ISD is serving as Chair of SCAG's Southern California PEV Coordinating Council for SCAG's EV planning and implementation leadership council.

- With assistance from Southern California Edison and the Los Angeles Department of Water and Power (LADWP), ISD developed a multi-year Master Purchasing Agreement for EV-charging infrastructure. Eleven firms representing 13 different manufacturers were awarded. This Master Agreement is available to public agencies throughout the region and will be used by the SCAQMD and the LADWP. The State of California is also considering use of the Agreement.
- The County Office of Sustainability continues to support a variety of County programs that are led by other organizations. These include:
  - Assist with the implementation of recommendations recently approved by your Board to limit or ban the use of polystyrene food containers and plastic bags (led by DPW);
  - Assist with the identification, review, and assessment of projects and programs submitted to the Green Leadership Awards Committee each year (led by the CEO);

Further details on many of the activities described above may be found on the website at <http://green.lacounty.gov>.

If you have any questions, please contact me at (323) 267-2101 or Howard Choy at (323) 267-2006.

TT:JJ:LR

c: ISD Board Deputies  
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Ellen Sandt, Deputy CEO  
Each Department Head