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Document Title:	1) What are the County of Los Angeles's current efforts that revolve around "DATA"
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CEC Workshop – April 14, 2015

Strategies Related to Data for Improved Decisions in Existing Buildings Energy Efficiency Draft Action Plan

- 1) What are the County of Los Angeles's current efforts that revolve around "DATA"
 - a. The Interactive Energy Atlas of Los Angeles County
 - i. Displays energy consumption across space and time
 - ii. The Atlas is a resource for local governments (also for non profits, research, etc): for the first time it links energy data with real on-the-ground characteristics (LA County Assessor data, LARIAC data, Census demographics, etc.) to inform building energy decision making and conservation efforts
 - iii. The Atlas is the backbone for integration with other overlays and analysis such as solar mapping, Cal-Enviro Screen, Climate Zones, Future Climate change projections, etc. We are sure there are many other useful applications we haven't even touched on yet!
 - b. Regional hosting & development of DOE's suite of Commercial Building Analysis Tools
 - i. SEED (enables Municipalities to collect EPA's PM facility benchmark data)
 - ii. Energy Asset Scoring (assesses the physical and structural energy efficiency of commercial and multifamily residential buildings)
 - iii. Building Synch (common schema for Energy Audit data)
 - c. Regional hosting & development of Utility Bill Data tracking & Reporting software for municipal agencies, i.e. 'EEMIS')
- 2) What is the Energy Atlas
 - a. Data reporting platform that combines GIS spatial capabilities with energy consumption, GHG, economic, population and climatological data
 - b. Goals
 - i. Easily represents and visualizes the key drivers of energy consumption and the resulting GHG, economic and social factors that result from that consumption
 - ii. Track the patterns over time
 - iii. Influence policy, tariff, reliability & EE program design decisions
 1. In the past without having relevant data from the IOUs, LG's were severely limited in pursuing local codes or ordinances that might have an influence on energy consumption
 2. The work that has already taken place provided significant input into LA City's benchmark/reporting ordinance
 - a. LA City's building energy accounts for 51% of the City's total GHG emissions
 - b. Half of the energy consumed by buildings in LA city come from 4% of the buildings
 - c. "Profile Reports" are generated on the website (with graphics and accompanying data) for each neighborhood, city, COG, and County
 3. Solar and renewables, Identifying Zero Net Energy potential
 - a. Working on analysis of LA County's Solar Map with actual energy demand and consumption to identify neighborhoods in LA County where there is great potential
 - b. Identification of building types and characteristics by city to help target solar deployment

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- c. History
 - i. Development is led by UCLA's Institute of The Environment and Sustainability
 - ii. Originally started with data from LA City's DWP (this NDA and UCLA's example of leadership set a precedent for the State)
 - iii. Expanded with data from the local IOU's territory (through NDA with PUC)
 - iv. Funded by CPUC grant funding from So Cal REN administered by the County of Los Angeles
 - v. Future expansion to all SCE, So Cal Gas, and SDG&E territory
- 3) Other Aligned Regional Data Infrastructure efforts
 - a. The County/SoCal REN is offering an integrated set of analytical tools in a centrally hosted and administered platform
 - b. Aligned efforts are based on a suite of DOE tools, including; SEED, Asset Scoring & Building Synch, all tools utilize DOE's BEDES data schema
 - c. The DOE tools will provide Municipalities with the ability to administer and gather Benchmarking, Auditing and Asset Performance ratings for Commercial buildings within their jurisdiction
 - i. Through its SoCal REN efforts the County is already hosting and administering DOE's SEED for use by the City of Los Angeles, the County will offer SEED to any local jurisdiction wishing to utilize their services
 - ii. The County is currently in a collaborative partnership with others to develop DOE's Building Synch capabilities in order for Building owners to easily evaluate their facility with other tools, including DOE's Asset Scoring application