



DATE: October 13, 2014

AGENDA ITEM # 4

TO: Environmental Commission
FROM: J. Logan, Staff Liaison
SUBJECT: Proposed greenhouse gas dashboard

RECOMMENDATION:

Discuss next steps for usage of proposed greenhouse gas dashboard

BACKGROUND

The Environmental Commission CAP sub-committee members, Commissioners Eyre and Bray, developed a proposed greenhouse gas (GHG) Dashboard for presentation to the Commission and for discussion of suggestions of its use as an educational resource.

The proposed usage of the dashboard is to have the dashboard on the EC website to provide status of the environmental progress of Los Altos as time goes on. The dashboard would probably have past usage, trends, and goals for water, natural gas, electric use, waste diversion, vehicle miles traveled, GHG emissions and other pertinent data.

DISCUSSION

The Commission will continue discussion of the concept of a greenhouse gas dashboard.

Attachment:

A. Dashboard Reporting – discussion document, September 2014

City of Los Altos, California

Discussion Document

'Dashboard' Reporting - Community Resource Use and GHG Emissions

September 2014

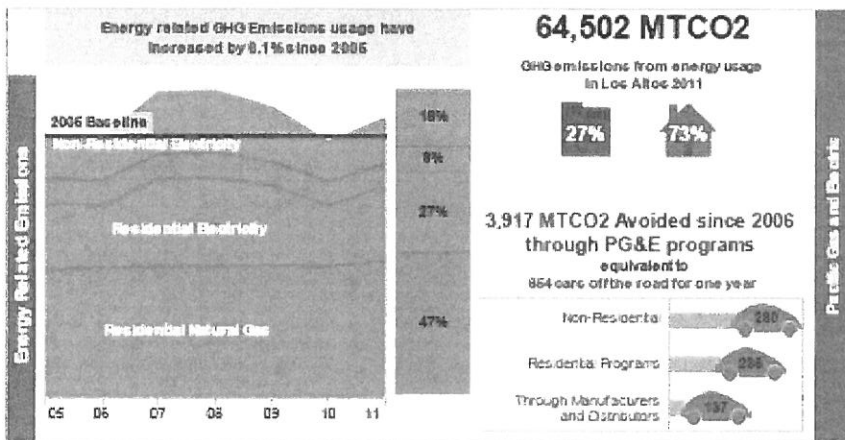
A City website-based 'dashboard' presenting annual community resource use data, GHG emissions and reduction targets will help engage the community in CAP implementation.

Dashboard Objectives

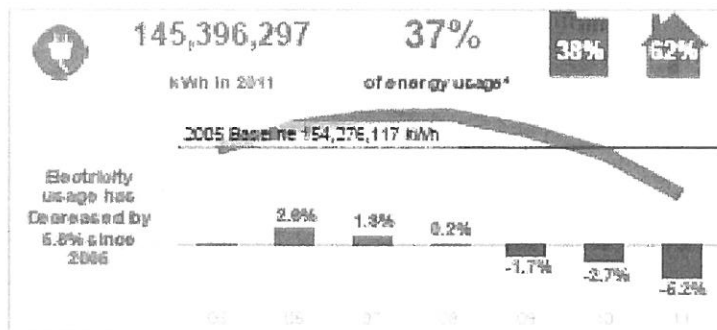
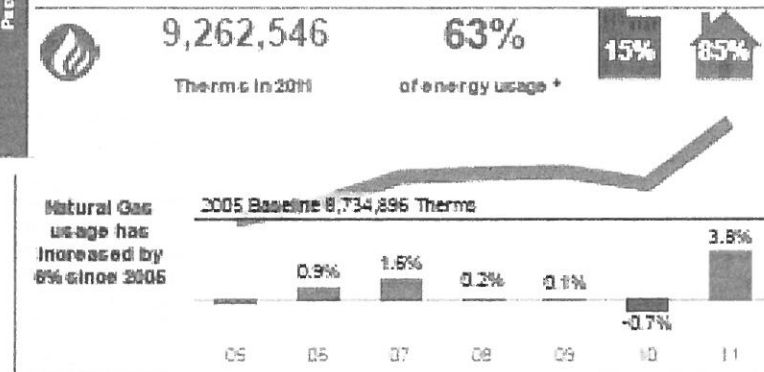
- Present foundational data on aggregate annual resource use, GHG emissions, and associated trends
- Describe resource use and GHG emissions data relative to CAP targets – to help answer the question “how are we doing?” year over year, and versus general CAP targets
- Provide the information in a visually interesting, easy to understand format that engages residents
- Address usage metrics and trends for key resources comprising the community GHG inventory:
 - 1) Total GHGs and pie chart breakdown, vs. goals
 - 2) Annual vehicle miles traveled/GHG per VMT
 - 3) Residential natural gas use/GHG
 - Solar? (kW installed)
 - 4) Residential electricity use/GHG
 - EVs? (#, mileage)
 - 5) Commercial electricity use/GHG
 - Bike lanes (miles?)
 - 6) Commercial natural gas use/GHG
 - 7) Annual community-wide water use/GHG
 - 8) Annual community-wide solid waste disposal tonnage/GHG
 - 9) Household/per capita averages
- Update with data reported by staff annually to the Environmental Commission and City Council, utilizing implementation and monitoring tool described in Chapter 5 of the CAP

Next steps would involve meeting with staff and PMC to learn about the monitoring tool outputs, and to begin design of simple web-based reporting layouts.

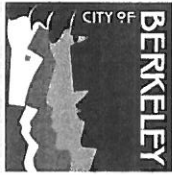
Annual Reporting of Resource Use and GHG Metrics



- Illustrative Examples -

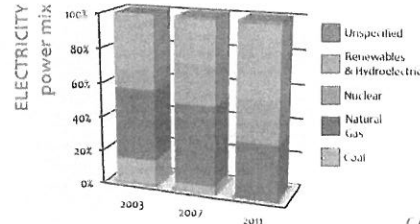
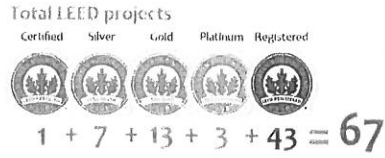


Source: PG&E Energy Summary for Los Altos 2005 - 2011

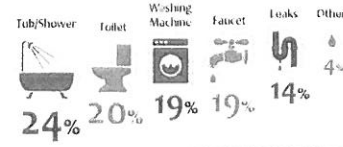


CLIMATE ACTION PLAN RESULTS

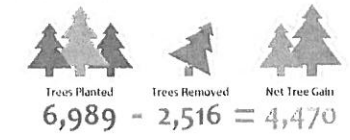
2011



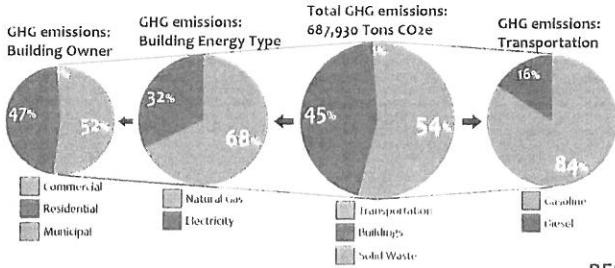
Household INDOOR WATER USE



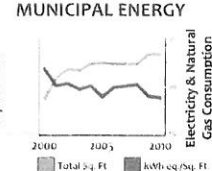
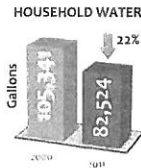
Total Street and Park TREES 2000 - 2011



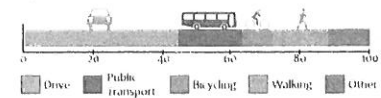
Main Greenhouse Gas (GHG) EMISSIONS SOURCES



Annual CONSUMPTION



TRANSPORTATION TO WORK by mode share



Bicycle PARKING



Total POPULATION



RESIDENTIAL ENERGY



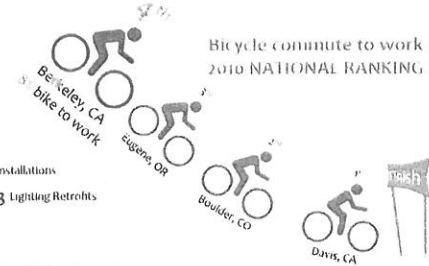
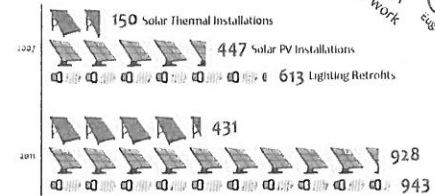
COMMERCIAL ENERGY



Green Certified BUSINESSES



Solar and Lighting UPGRADES 2007-2011



References:
City of Berkeley Energy & Sustainable Development
(www.cityofberkeley.info/climate/progress)
U.S. Census Bureau
Pacific Gas and Electric Company