

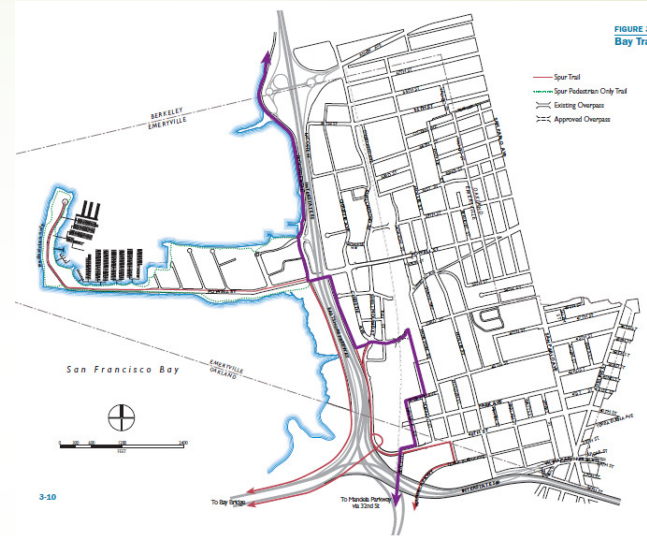
Climate Action Planning at the City of Emeryville

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CITY OF EMERYVILLE



CivicSpark AmeriCorps Program



- Governor's Initiative AmeriCorps program, started in 2014 dedicated to **building capacity for local governments to address climate change**
- 11 month fellowship with government agencies working on climate action planning, energy efficiency, transportation, water, and other environmental projects
- The Office of Planning and Research launched its **Best Practices Pilot Program** this fall to highlight successful case studies of cities working with CivicSpark Fellows – **Emeryville was selected for its work on the Climate Action Plan**





CAP 2.0 Initiatives with Businesses

- ▶ Creating **alternative transportation incentive program** for shoppers, ie Walk to Shop, a rolling shopping cart discount, or a poster photo campaign.
- ▶ Promote **sustainable consumption** via local arts, entertainment, hospitality sector, and staycations.
- ▶ Host a 'Best For Emeryville' program to promote the **B Impact Assessment for businesses** as well as expend business recruitment and retention.
- ▶ Work with unions and businesses to **protect outdoor and manual laborers in extreme weather.**



REV Sustainability Circle

- ▶ **6 month peer-to-peer program** with all day workshops and facility tours on lighting, green buildings, waste, water, and other sustainability topics with experts
- ▶ **Coaches** work with your org to develop your action plan
- ▶ **Peers** share their lessons learned at each session
- ▶ Open to **businesses and municipalities**
 - ▶ East Bay Circle Participants 2015-16: Bay Street/Madison Marquette, Pixar, City of Berkeley, City of Emeryville, Bayer, Meyer Sound, Sims Metal, Pacific Steel, CSAA, CalTrans Region 4
- ▶ End deliverable is a **5-year sustainability action plan**
- ▶ <http://emeryville.org/1085/City-Sustainability-Action-Plan>

PROJECTED SAVINGS



36 initiatives



\$68,170



274,114 kWh



12,323 Therms



5,643,495 Gal



892 tons

- 36 initiatives, saving over \$68k over 5 years
- Additional achievements:
 - Greater staff awareness of sustainability and climate change
 - More resources for residents to access (EV chargers, sustainability website, etc)

INITIATIVES

INITIATIVE TOTALS (by time frame)	# of Initiatives	Energy	Water	Waste/Effluents	All Other	# of Utility Incentives or Rebates
0-6 months	14	7	3	0	4	2
6-24 months	12	2	0	2	8	0
2-5 years	9	4	2	0	3	0
TOTALS: 0-5 years	35	13	5	2	15	2

#	LIST OF INITIATIVES	Details, goals, benefits, behavioral tactics, etc.	Time Frame	Impact Category	Approach	Ownership	Current Baseline Metric (As of 2015)
1	Replace HVAC control system in city hall - SMART program [Strategic Energy Plan]	1) Optimize Economizer HVAC. 2) Reduce zone airflow set points 3) Program system with zones within 45-85F outside [heat to 68, cool to 78]. 4) Employees reasonably comfortable w/o personal heaters etc. 5) Track energy use	0-6 months	Energy – HVAC	Infrastructure	Facilities	480618 kWh [City Hall as of 2015]
2	Install more efficient LED lighting in city hall - SmartLights [Strategic Energy Plan]	1) Replace current system. 2) Program new control system. 3) Work with PG&E for best practices. 4) Create AI for new users. 5) Track energy use	0-6 months	Energy – Lighting	Infrastructure	Facilities	480618 kWh [City Hall as of 2015]
3	Reschedule outside lighting to operating hours in City Hall - SMART program [Strategic Energy Plan]	Reprogram Wattstopper controller for interior/exterior lights. Part of SMART program	0-6 months	Energy – Lighting	Infrastructure	Facilities	480618 kWh [City Hall as of 2015]
4	Boiler retrofit and heating hot water/AC system optimization in city hall [Strategic Energy Plan]	1) Audit current facility use. 2) Replace appliances. 3) Track energy use.	0-6 months	Energy – Other	Infrastructure	Facilities	480618 kWh [City Hall as of 2015]
5	Install environmental management control system for HVAC and lighting	1) Replace current system. 2) Program new control system. 3) Work with PG&E for best practices. 4) Create AI for new users. 5) Track energy use	2-5 years	Energy – Lighting	Infrastructure	Facilities	No management control system currently [2015]
6	Train staff on energy efficiency [Strategic Energy Plan]	Support staff in getting certified through IOU energy centers or building operator certification.	6-24 months	Energy – Other	Practice or Behavior	HR/Personnel	No staff training currently [2015]
7	Install solar panels in Fire Station 35	1) Review Renewable Energy Sys Analysis for available space at facilities. 2) Install solar panels/roofing.	2-5 years	Energy – Renewables	Infrastructure	Facilities	\$9435 for annual electricity [2015]
8	Install solar panels in CDC	1) Review Renewable Energy Sys Analysis for available space at facilities. 2) Install solar panels/roofing.	2-5 years	Energy – Renewables	Infrastructure	Facilities	93,040 kWh [2012-2013 for CDC]

Beacon Award Program

- Beacon is a **sustainability recognition program for local government agencies** through the Institute for Local Government and the Statewide Energy Efficiency Collaborative
- Awards for GHG reductions, electricity/natural gas reductions, and sustainability best practices
- Framework for **sharing best practices** between CA cities/counties
- Find out more at: <http://www.ca-ilg.org/beacon-program>





Energy Efficiency and Conservation Activity

Level	Energy Efficiency and Conservation Activity	Reported
Silver	1. Through the Powell Street Electrical Energy Conservation Project (PSEECF), the city replaced its streetlights with LED luminaires starting in 2011. The project aimed to reduce the city's carbon footprint, conserve energy, and reduce expenditures. So far 442 cobrahead streetlights have been converted to LED and there are plans to convert the majority of the Lumec lamps to LED. RFP for PSEECF, 3/26/11 : www.ci.emeryville.ca.us/DocumentCenter/Home/View/1434	2016

Level	Energy Efficiency and Conservation Activities	Reported
Gold	1. The city converted all desktop computers in 2011 to a centralized data center to reduce energy from computer towers. The estimated annual savings are 168,790.56 kWh or \$9931.58. 2015 SEP p49 : http://www.ci.emeryville.ca.us/documentcenter/view/8795 2. The city upgraded all its traffic signal lights with more efficient LED lighting. 2015 SEP, p6 : http://www.ci.emeryville.ca.us/documentcenter/view/8795	2016

Level	Energy Efficiency & Conservation Activities	Reported
Platinum	1. Between 2010 and 2012, the city partnered with Rising Sun Energy Center to offer free energy conservation services and hardware to residents and small business owners through California Youth Energy Services (CYES). Rising Sun held discussions with homeowners, renters, and property managers at Earth Day celebrations. Rising Sun provided high school students with summer jobs in energy efficiency retrofitting. 2015 SEP p6 : http://www.ci.emeryville.ca.us/documentcenter/view/8795	2016

Topics for Best Practices

- Energy Efficiency and Conservation
- Water and Wastewater Systems
- Green Building Activity
- Waste Reduction and Recycling
- Climate Friendly Purchasing
- Renewable Energy and Low Carbon Fuels
- Efficient Transportation
- Land Use and Community Design
- Open Space and Offsetting Carbon Emissions
- Promoting Community and Individual Actions

Emeryville Energy Efficiency (E3) Program




- ▶ Emeryville partnered with ABM Building Solutions, Energy Solutions and CleanFund PACE, to create a **voluntary energy audit program for commercial businesses** in the city
- ▶ Goal to help businesses save money, reduce energy usage/carbon footprint, and promote green brand
- ▶ The carrot to the stick (mandatory energy audit and benchmarking program, similar to City of Berkeley)



How E3 Works

- ▶ **ABM provides energy audit and upgrade implementation**
 - ▶ No-cost audit report and recommendations
 - ▶ Industry expertise and one-stop shop for upgrades
- ▶ **Energy Solutions provides incentives and rebates**
 - ▶ Insight and guidance to PG&E incentive programs
 - ▶ Implement PG&E Auto Demand Response (ADR) and LED Accelerator Program
- ▶ **CleanFund PACE provides funding mechanism**
 - ▶ No out of pocket costs
 - ▶ Immediate return on investment



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