

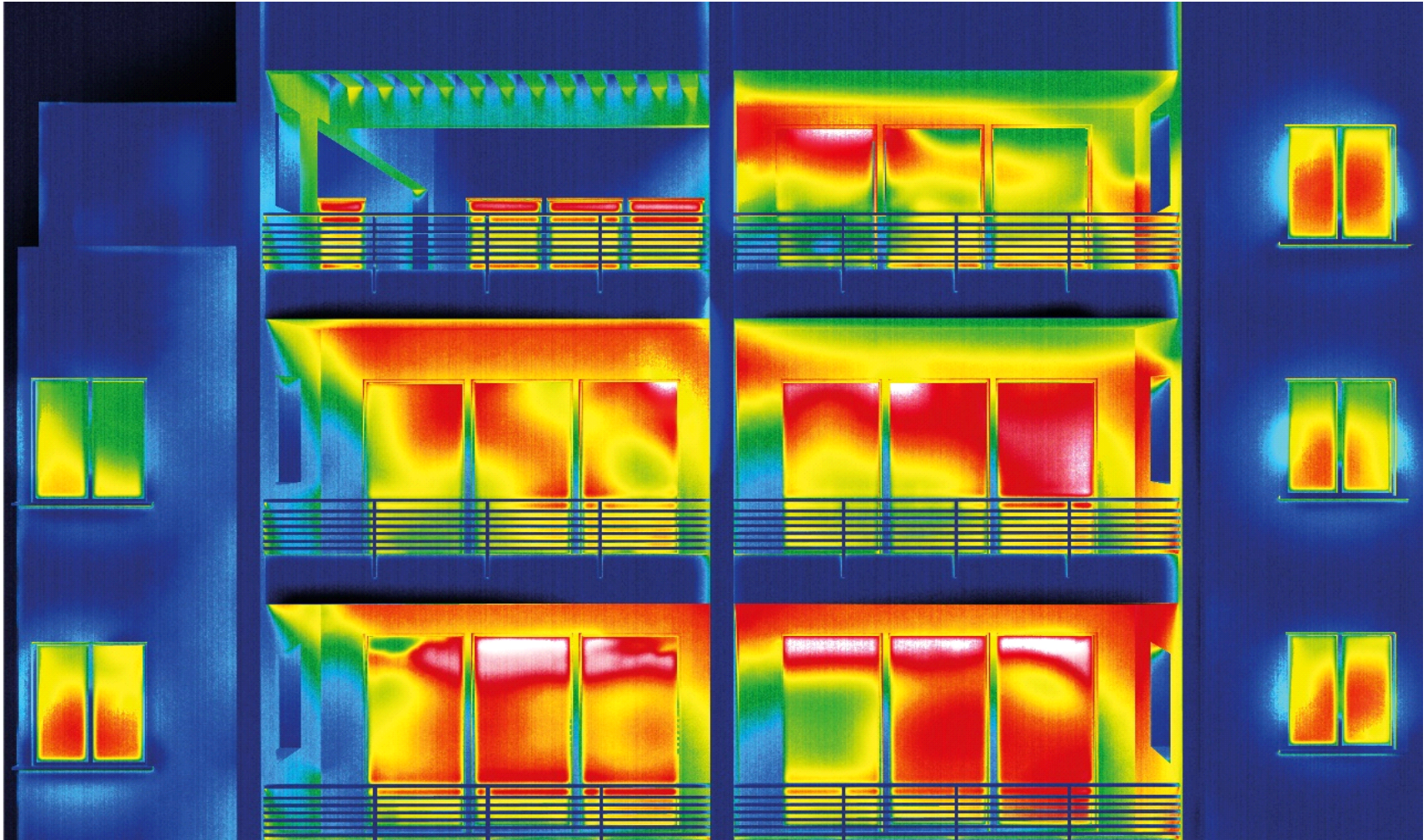


County of Santa Barbara ZNE and Smart Build Barbara (SB2)

6th Annual Statewide Energy Efficiency Forum
June 18, 2015

*"We do not inherit the earth from our
ancestors, we borrow it from our children."*
-Native American Proverb

Buildings Bleeding Energy



Buildings Bleeding Energy



Fail to properly insulate outside metal wall.

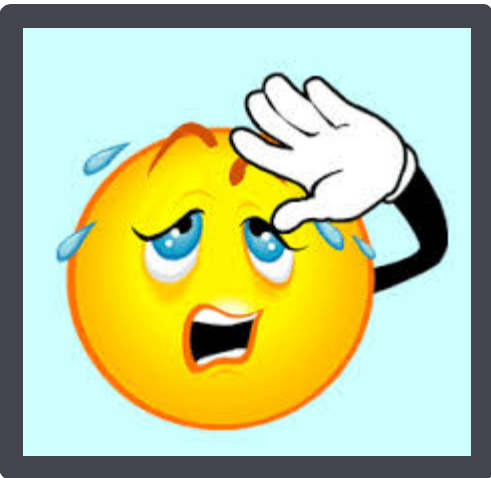
Non Dark Sky lighting design



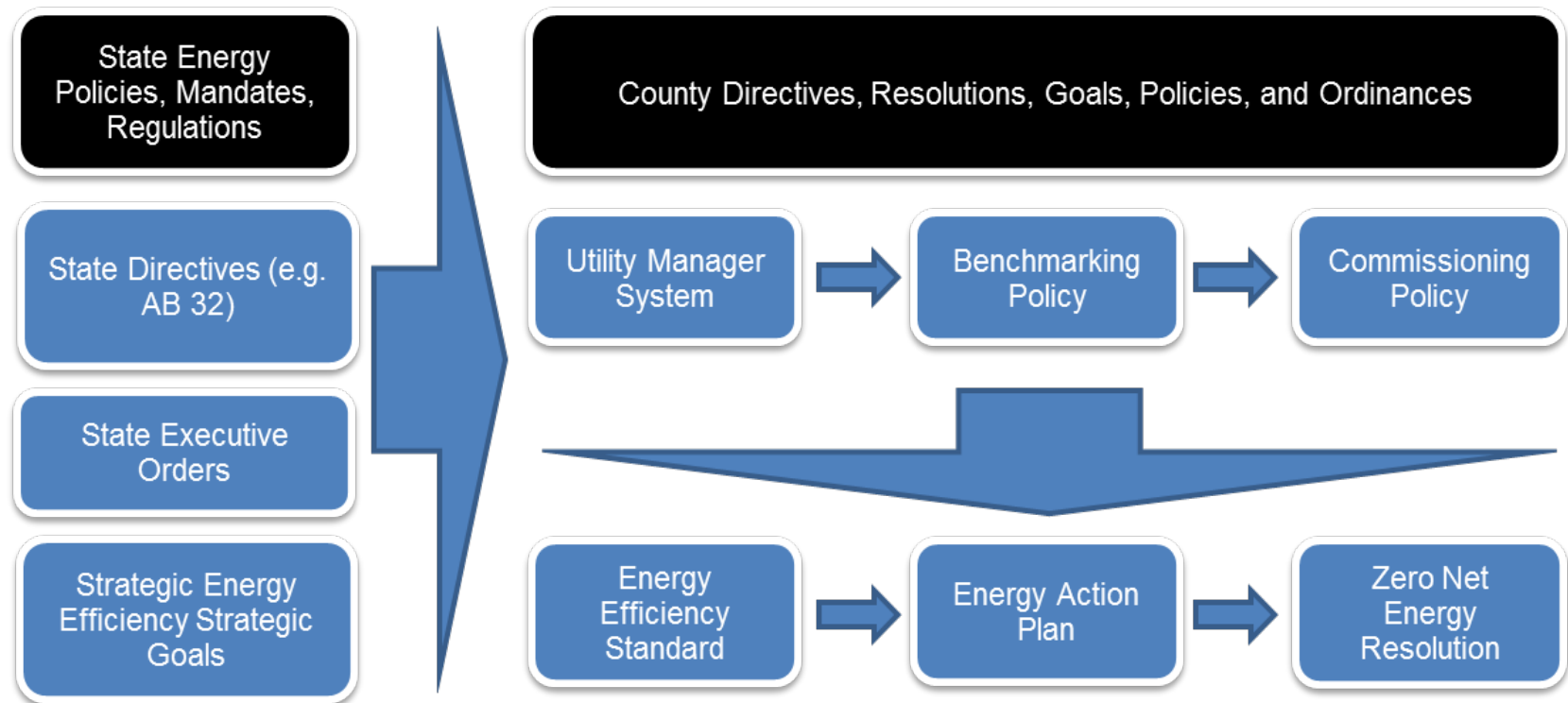
Computer guys did not know to vent to the outside the AC unit on the right in a hot room, so it failed.



Using Halogen Heat lamps to light up artwork because they don't know enough about LEDs.



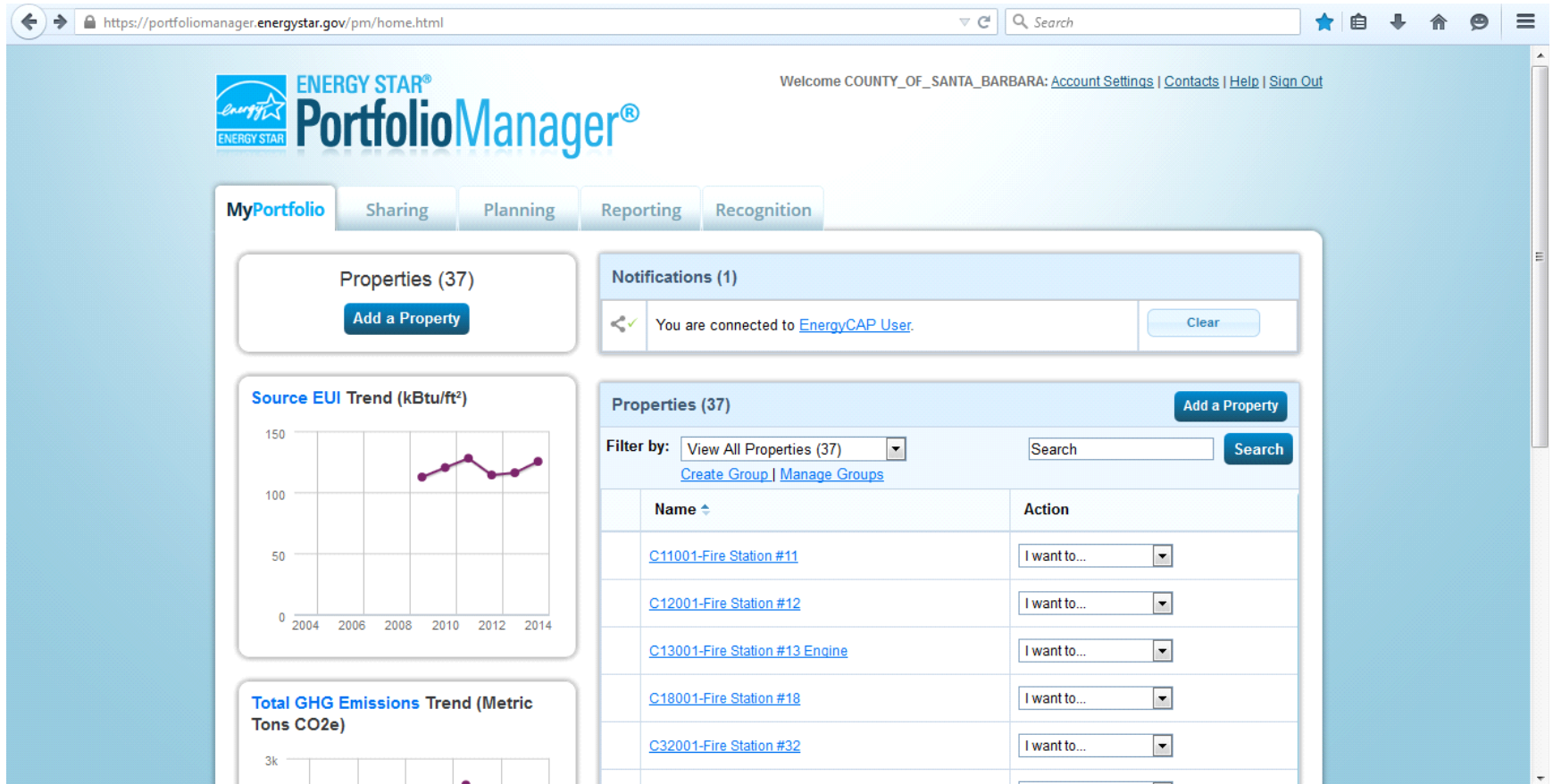
The Process to stop the Energy Bleeding



Funded by Southern California Edison Company
Local Government Strategic Plan Strategies Program and
Assisted by ICF International

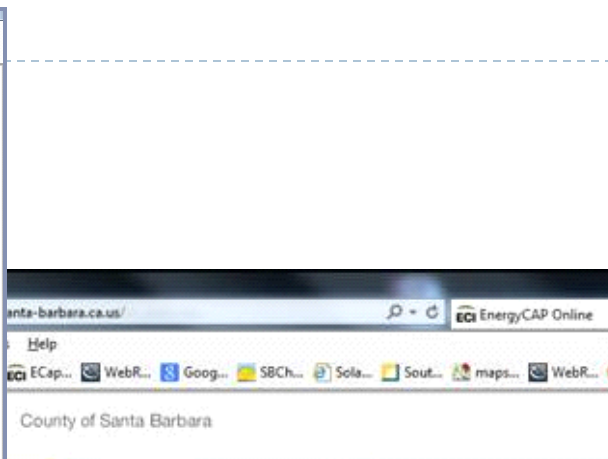
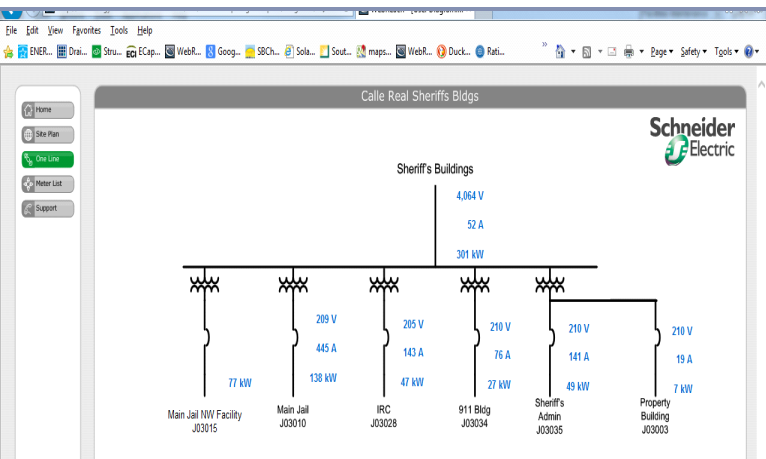
Inspired by <http://newbuildings.org/>

Benchmarking Buildings

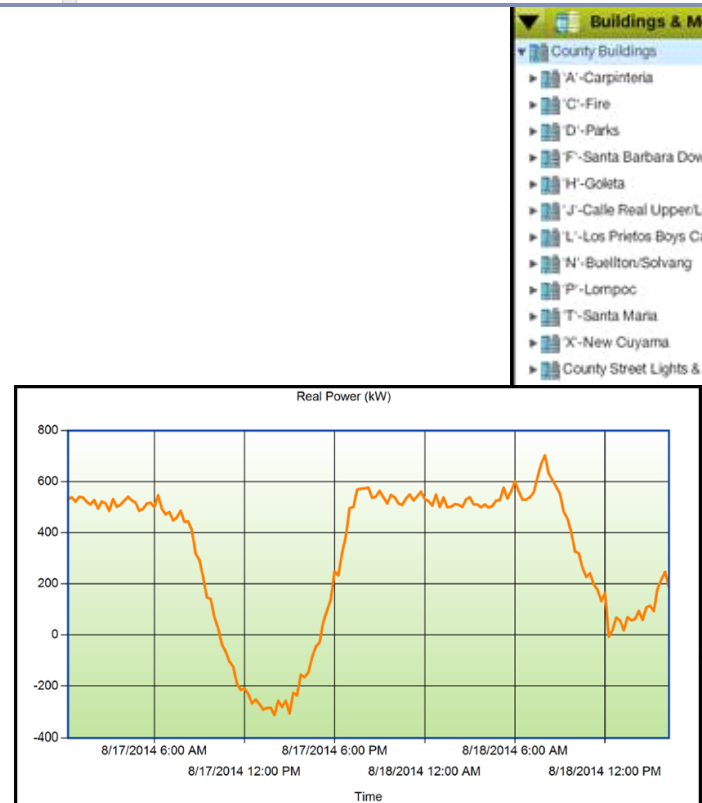


<https://portfoliomanager.energystar.gov/pm/login.html>

Measuring Building Energy Usage and put it online



		SO CAL GAS CO P O BOX C MONTEREY PARK, CA 917540001 MARSHA INGRAM 3235182275	
Invoice Purpose Original	Invoice Type Product/Service Bill	Due Date 09/04/2014	Amount Due 140.67
Bill To COUNTY OF SANTA BARBARA F01006 105 E ANAPAMU ST SANTA BARBARA, CA 931012000		Service Address COUNTY OF SANTA BARBARA 1112 SANTA BARBARA ST SANTA BARBARA, CA 931012008	
Account Activity Date of Bill		08/14/2014	
		Previous Balance	\$182.00
		Total Amount of Payments	\$182.00
		Balance Forward	\$0.00
		+ Current Bill	\$140.67
		Current Balance	\$140.67
Gas Service - Account Summary			
Invoice Number	96414	Customer Charge - 29 Therms X 0.49315	\$14.30
Invoice Number	96414	Gas Commodity - 111 Therms X 0.51274	\$56.91
Rate	026.10	Tier 1 - 111 Therms X 0.49327	\$55.31
Current Reading	3416	Subtotal	\$126.52
Previous Reading	3509		
Actual		08/12/2014	
Actual		07/14/2014	
Home		Help	More
Search for Acct, Bldg, Meter by code or name			



It is Solar / Retrofits / Each Department Helping



County of Santa Barbara Solar Arrays:

http://solrenview.com/cgi-bin/cgihandler.cgi?&sort=pvi_IDS&cond=site_ID=1368&min

http://live.deckmonitoring.com/?id=santa_barbara_county_emergency_operations_center

County of Santa Barbara ZNE Resolution

NOW, THEREFORE, IT IS HEREBY RESOLVED AND ORDERED that:

All new Santa Barbara County owned facilities and major renovations beginning design after 2025 be constructed as Zero Net Energy Facilities with an interim target for 50% of new facilities beginning design after 2020 to be Zero Net Energy. Santa Barbara County departments shall also take measures toward achieving Zero Net Energy for 50% of the square footage of existing Santa Barbara County owned facilities by 2025 and the remaining 50% by 2035.

Link to County of Santa Barbara ZNE Resolution

[https://santabarbara.legistar.com/LegislationDetail.aspx?
ID=1639014&GUID=3D00C2BA-27D0-4604-96F4-E445A7F60637](https://santabarbara.legistar.com/LegislationDetail.aspx?ID=1639014&GUID=3D00C2BA-27D0-4604-96F4-E445A7F60637)

Smart Build Santa Barbara (SB2)



- ▶ Voluntary, free program created in 1995
- ▶ Available to any project in the County
 - ▶ Unincorporated or incorporated
 - ▶ Residential, nonresidential, government, mixed-use
 - ▶ LEED, emPower Central Coast, Built Green Santa Barbara
 - ▶ SB²



Check List

▶ Two tier structure

- ▶ Ultra Low Energy Verified
 - ▶ Exceed Title 24 by 30%
- ▶ Zero Net Energy
 - ▶ 100% of energy use met using onsite renewables
 - ▶ Exceed Title 24 by 40%

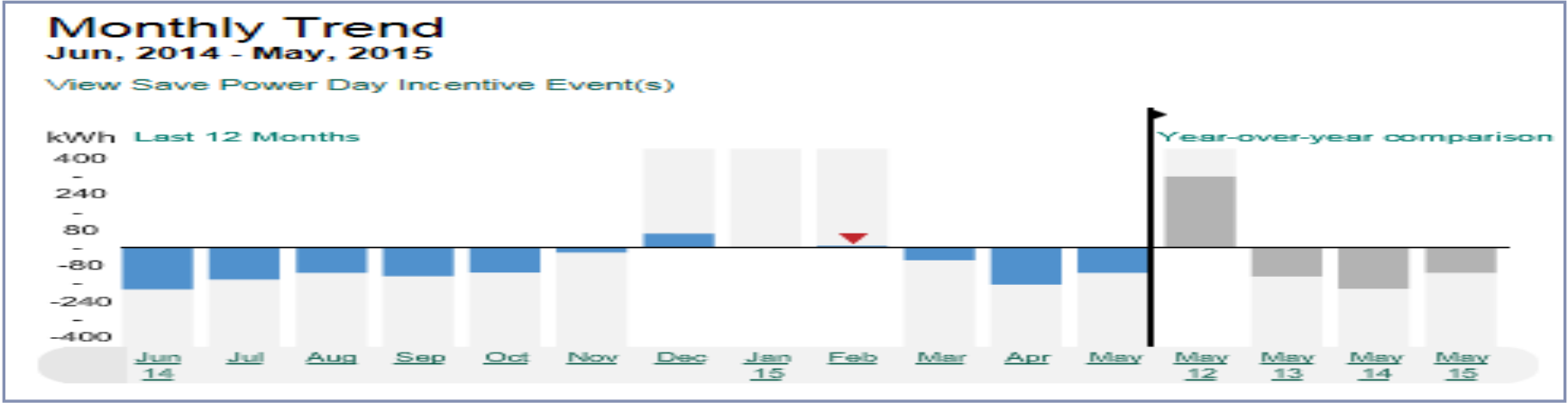
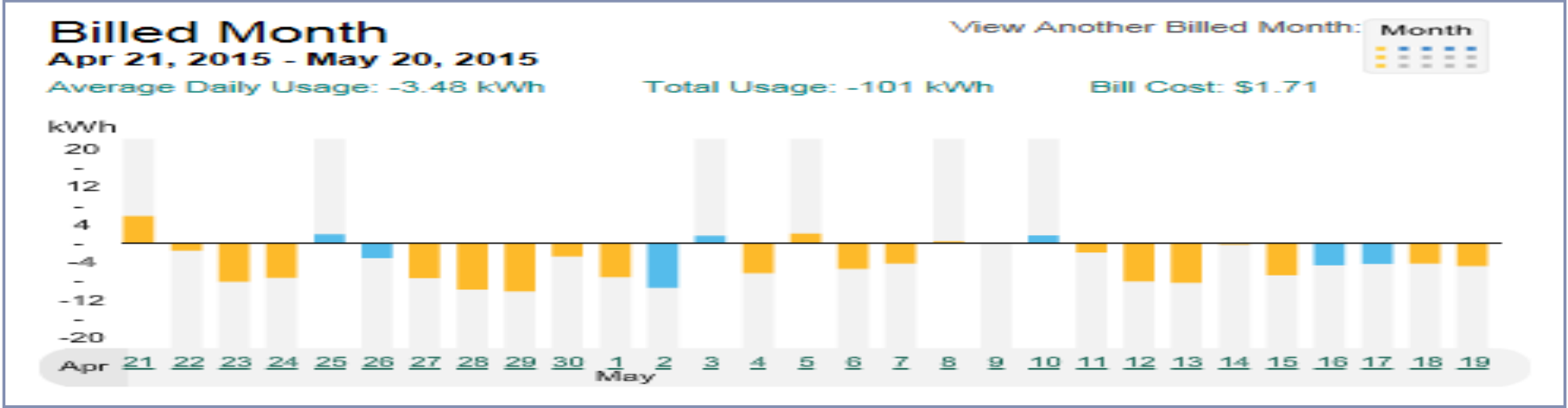


Program Incentives

- ▶ Free advice from industry experts
- ▶ Development benefits
 - ▶ Increased marketability
 - ▶ Increased comfort
 - ▶ Reduced utility bills
- ▶ Reduction in plan check fees
- ▶ Expedited plan check review process
- ▶ Resolution of Commendation

<http://longrange.sbcountyplanning.org/programs/energyelement/Documents/SB2%20Program%20Description.pdf>

Do you have solar on your house? If not lead by example and get solar,
If you have solar, tell others and get your government to change.



Cost of my Array \$7,500 – \$2,300 Fed Refund = \$5,200
2.5KW