

Sustainable Energy Incubator

Technical Assistance Resource – Reach codes

Applicable Subject Areas

- Building decarbonization
- Demand management
- Energy codes/ordinances
- Energy efficiency
- Energy policies/legislative analysis
- Energy storage, Energy technologies
- Grid modernization
- Renewable energy
- Transportation electrification

Type of Support Requested:

- Cost or return on investment (ROI) Information: project design, planning, and/or implementing costing information, sources of funding or financing,
- Implementation Examples: case studies or referrals to another local government project that has been implemented.
- Model Policies: Examples of specific policies and supporting resources
- Partnership Ideas: Connection to community groups, government agencies, and/or other potential project partners,
- Planning Examples: Examples of other local government plans for a specific energy initiative,
- Technical Support: Technical assistance on a specific topic such as solar system details, electric vehicle charging options, etc.

The following resources were identified through internet searches using the terms: REACH Codes California, REACH Codes cost effectiveness, REACH Codes examples, sustainable building, sustainable re-building

This collection of information includes some general reference materials which may be helpful for city staff in providing context and description to elected officials.

Reference Materials:

Cost or return on investment (ROI) Information: project design, planning, and/or implementing costing information, sources of funding or financing,

Resource	Description
CA Energy Codes & Standards	The California Codes and Standards (C&S) Reach Codes program provides technical support to local governments considering adopting a local ordinance (reach code) intended to support meeting local and/or statewide energy and greenhouse gas reduction goals. The program facilitates adoption and implementation of the code, by providing resources such as cost-effectiveness studies, model language, sample findings, and other supporting documentation. This is a program supported by the four investor-owned utilities.
Peninsula Clean Energy	Peninsula Clean Energy (PCE), the San Mateo County Office of Sustainability (OOS), and Silicon Valley Clean Energy (SVCE) are supporting our municipalities to adopt building codes that will result in safer and more comfortable buildings, increase our electric vehicle charging infrastructure, and reduce our carbon footprint. In support of municipalities and counties in PCE and SVCE service territory, PCE and SVCE are providing extensive technical assistance plus a \$10,000 incentive to each city that brings reach codes to their councils.

Implementation Examples: Case studies or referrals to another local government project that has been implemented.

Resource	Description
EE Coordinator	This website, which is part of the Local Government Commissions’ collaborative SEEC program, provides a rich collection of Reach Code resources, including the Local Energy Ordinance Resources and Toolkit.
City of San Jose	The City of San José is exploring the development of reach codes to electrify buildings and transportation vehicles. New Buildings Institute is guiding the City’s reach code evaluation and stakeholder engagement process.
City of Palo Alto - 2019 Energy Reach Code Cost-Effectiveness Analysis	The City of Palo Alto’s programs and process are described here . The 2019 Energy Reach Code Cost-Effectiveness Analysis focuses on building electrification and reducing greenhouse gas emissions (GHG) in buildings. The study found that building electrification is cost-effective in specific new residential and commercial construction scenarios.
Menlo Park	Menlo Park’s recent work on reach codes

	The City Council provided initial approval of the proposed Reach Codes on July 16, 2019, and staff is moving forward with drafting code amendment language to be adopted at a public meeting tentatively scheduled for August 27, 2019.
California Energy Commission	The current list (copied from the CEC website) of adopted and approved Local Energy Standards.

Additional Implementation Examples:

Approved Local Energy Standards

Local Ordinances	Date Approved	Documents	Type
Alameda County	July 11, 2018	Submittal to the California Energy Commission (Zip File)	Solar PV
Arcata, City of	December 10, 2018	Submittal to the California Energy Commission (ZIP File)	Efficiency
Brisbane, City of	July 12, 2017	Submittal to the California Energy Commission (Zip File)	Cool Roof, Solar PV
Chula Vista, City of	July 11, 2018	Submittal to the California Energy Commission (Zip File)	Outdoor Lighting
Del Mar, City of	September 21, 2018	Submittal to the California Energy Commission (ZIP File)	Efficiency
Davis, City of	December 13, 2017	Submittal to the California Energy Commission (ZIP File)	Efficiency, Solar PV
Fremont, City of	July 12, 2017	Submittal to the California Energy Commission (Zip File)	Solar PV
	April 27, 2017	Submittal to the California Energy Commission (Zip File)	Lighting

Healdsburg, City of	July 12, 2017	Submittal to the California Energy Commission (Zip File)	Efficiency
Lancaster, City of	October 11, 2017	Submittal to the California Energy Commission (Zip File)	Solar PV
Los Angeles, County of	March 12, 2019	Submittal to the California Energy Commission (ZIP File)	Cool Roof
Marin County	June 13, 2018	Submittal to the California Energy Commission (Zip File)	Efficiency
	March 8, 2017	Submittal to the California Energy Commission (Zip File)	
Mill Valley	April 27, 2017	Submittal to the California Energy Commission (Zip File)	Efficiency
Novato, City of	April 27, 2017	Submittal to the California Energy Commission (Zip File)	Efficiency
Palo Alto, City of	September 14, 2016	Submittal to the California Energy Commission (Zip File)	Efficiency, Solar PV
Portola Valley, Town of	July 12, 2017	Submittal to the California Energy Commission (Zip File)	Efficiency
San Francisco, City of	November 9, 2016	Submittal to the California Energy Commission (Zip File)	Solar PV or Solar Thermal
San Mateo, City of	September 14, 2016	Submittal to the California Energy Commission (Zip File)	Cool Roofs, Solar
Santa Monica, City of	March 8, 2017	Submittal to the California Energy Commission (Zip File)	Efficiency
	March 8, 2017	Submittal to the California Energy Commission (Zip File)	Solar PV

Model Policies: Examples of specific policies and supporting resources.

Additional resources regarding model policies can be found here:

- <https://www.bayrencodes.org/reachcodes/>
- <https://ww2.energy.ca.gov/title24/2016standards/ordinances/>

Outside CA, the examples described here may be illustrative.

- <http://bcapcodes.org/beyond-code-portal/stretch-and-reach-codes/>

Partnership Ideas: Connection to community groups, government agencies, and/or other potential project partners.

Organization	Description
New Buildings Institute	The New Buildings Institute has been a long-time advocate and educator on zero net energy and other advanced building systems, and supports organizations with education and outreach and technical assistance
US Green Building Council (USGBC-LA)	In Southern California, the Los Angeles Branch of the United States Green Building Council is especially active and may provide project partners, links to community groups and the perspectives of implementers.

Planning Examples:

Planning examples of other local government plans for a specific energy initiative, are included in the examples filed with the Energy Commission, and at the links provided for various local governments (BayREN, San Jose, etc.).

Funding and Financing Resources:

We try to provide applicable links or suggestions for appropriate funding and financing resources. In the case of reach code development, there may be grant funding available through community foundations. In some cases, grant funding might be more readily accessible if a city already has a Reach code in place (EPIC funding from the CEC might be an example).

Rebuilding (after disaster) Example Programs and Policies:

Link	Description
Sonoma County	<p>Two communities working their way through the rebuilding process are Sonoma County and the Butte County town of Paradise. Some of their rebuilding program and policy links are provided, with specific call-outs to the current 'CalGreen' building code standards.</p> <p>Q: When rebuilding, do I need to do Energy Calculations and comply with the provisions of CALGreen??</p> <p>A: Yes, you will need to do Energy Calculations and you will need to comply with the provision of CALGreen. For more information, visit BPC-002 Residential Plan Checklist</p>
Town of Paradise	<p>"Show all relevant features and compliance documentation of the California Green Building Standards Code requirements."</p>