

Introduction to Energy Commission Clean Energy Programs

SB 350 Disadvantaged Communities Advisory Group Meeting

April 4, 2018

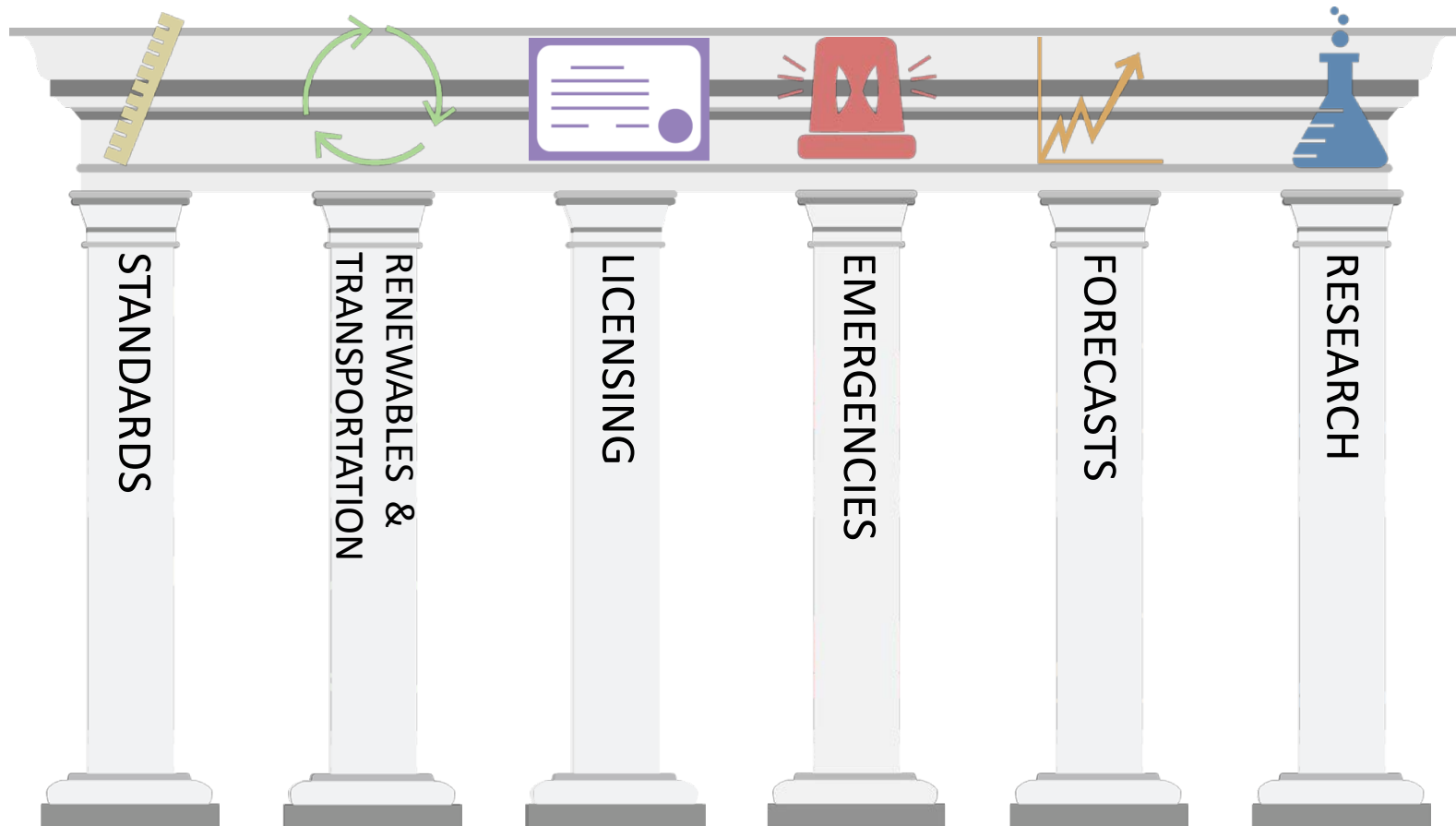
Michael J. Sokol
Special Coordinator – SB 350
California Energy Commission





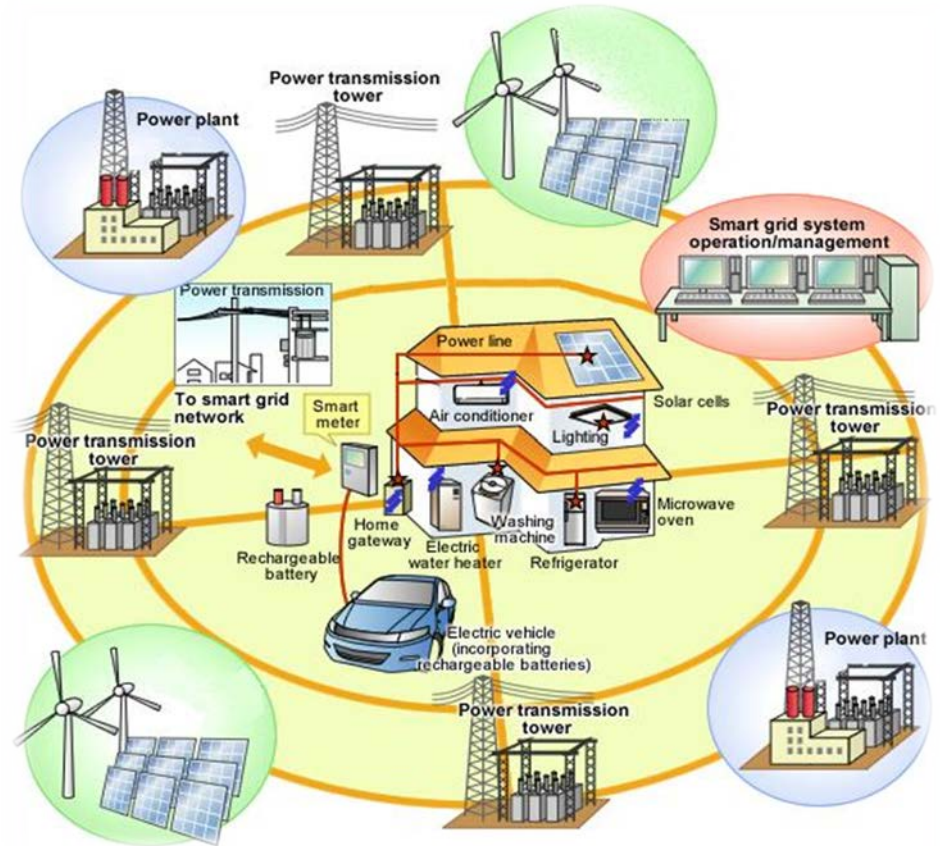
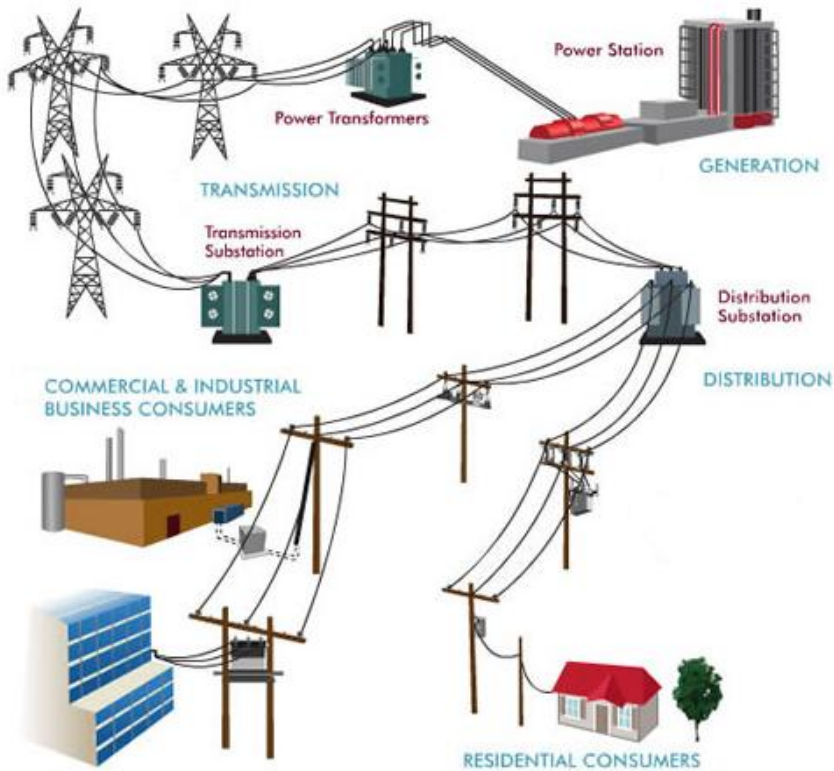
About the Energy Commission

The agency driving our clean energy future





Supporting the Evolution of the Electricity Grid



Historical Grid



"Smart" Grid



SENATE BILL 350:

The Clean Energy and Pollution Reduction Act of 2015

- 50% renewable energy by 2030
- Doubling energy efficiency savings by 2030
- Encourages widespread transportation electrification
- Integrated resource planning to reduce greenhouse gas emissions
- Address barriers for low-income residents & disadvantaged communities



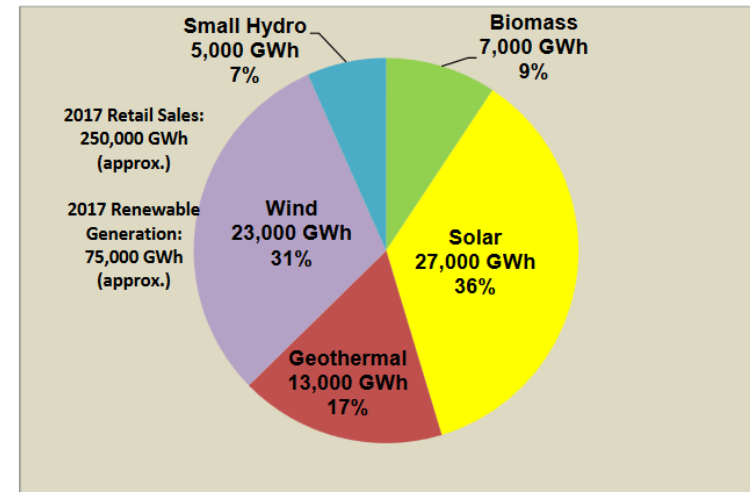


50% Renewable Portfolio Standard

“...require that the amount of electricity generated and sold to retail customers per year from eligible renewable energy resources be increased to 50% by December 31, 2030, as provided.” PRC § 25310(c)

More info at: <http://www.energy.ca.gov/portfolio/>

REACHING CALIFORNIA'S RENEWABLES GOALS

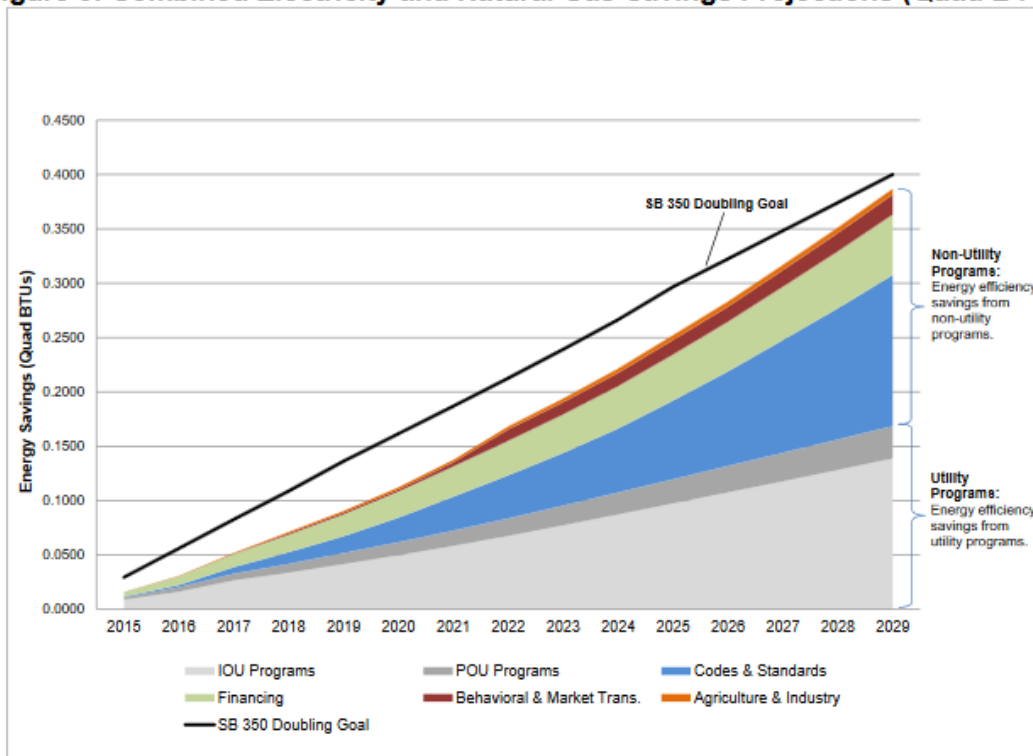




Doubling Energy Efficiency Savings

“...establish annual targets for statewide energy efficiency savings and demand reduction that will achieve a cumulative doubling of statewide energy efficiency savings in electricity and natural gas final end uses of retail customers by January 1, 2030.” PRC § 25310(c)

Figure 3: Combined Electricity and Natural Gas Savings Projections (Quad BTUs)



More info at: http://www.energy.ca.gov/sb350/doubling_efficiency_savings/



Transportation Electrification

- “It is the policy of the state and intent of the Legislature to encourage transportation electrification as a means to achieve ambient air quality standards and the state’s climate goals.” PRC § 25310(c)
- Utilities are required to address transportation electrification in integrated resource planning

More info at: <http://www.energy.ca.gov/altfuels/2016-TRAN-01/>





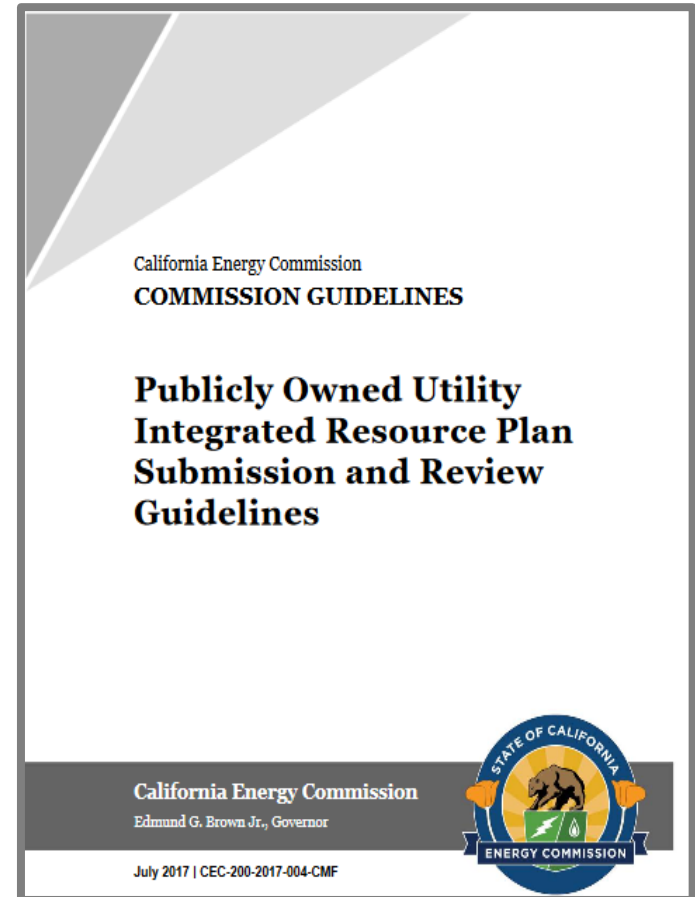
Integrated Resource Planning

“...adopt guidelines to govern the submission of information and data and reports needed to support the Energy Commission’s review of the [publicly owned] utility’s integrated resource plan...” PUC § 9622(c)

Guidelines adopted August 9, 2017

More info at:

<http://www.energy.ca.gov/sb350/IRPs/>



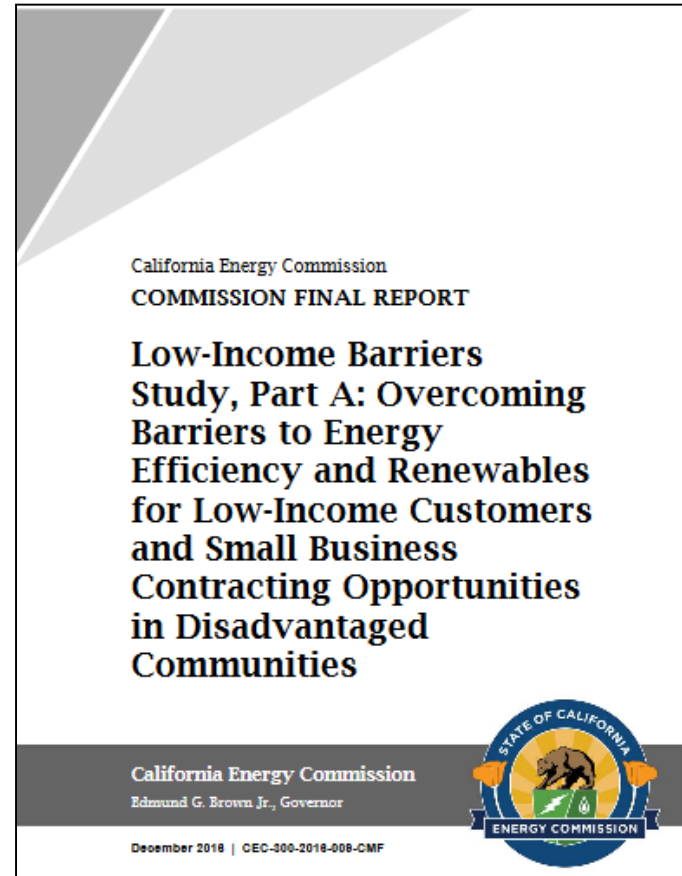


Low-Income Barriers Study

“conduct and complete a study on...
Barriers to, and opportunities for, solar
photovoltaic... other renewable energy
by low-income customers... contracting
opportunities for local small businesses
in disadvantaged communities... energy
efficiency and weatherization
investments...”

Report adopted December 14, 2016

http://www.energy.ca.gov/sb350/barriers_report/





Disadvantaged Community Advisory Group

- “Establish an advisory group consisting of representatives from disadvantaged communities... shall review and provide advice on programs proposed to achieve clean energy and pollution reduction...” PUC § 400(g)
 - More info at: <http://www.energy.ca.gov/sb350/DCAG/>





Grid Regionalization

“It is the intent of the Legislature to provide for the transformation of the Independent System Operator into a regional organization to promote the development of regional electricity transmission markets in the western states ...” PUC § 395.5

More info at: http://www.energy.ca.gov/sb350/regional_grid/





Other SB 350 Requirements

- “Review technology incentive, research, development, deployment, and market facilitation programs... provide benefits to disadvantaged communities...” PUC § 400(d)
- “Establish a publicly available tracking system to provide up-to-date information on progress...” PUC § 400(f)
- “...adopt, implement, and enforce a responsible contractor policy for use across all ratepayer-funded energy efficiency programs” & “establish consumer protection guidelines for energy efficiency products and services.” PUC § 25943(a)
- Energy Data Collection Rulemakings to support SB 350 and AB 802 Implementation



Electric Program Investment Charge (EPIC)

- Established by CPUC in 2012 to fund investments to advance clean energy technologies and approaches for the benefit of investor-owned utility electricity ratepayers.
- The Energy Commission administers approximately \$130 million per year.
- EPIC uses an **energy innovation pipeline** approach to creating new energy solutions, fostering regional innovation, and bringing clean energy ideas to the marketplace





Upcoming SB 350 Events

- April 20: North Coast Regional Energy Perspective (Arcata)
- May 15: Kern County Renewable Energy Perspective (Bakersfield)
- May 16: Energy Equity Regional Workshop (Central Valley)
- May 30: Energy Equity, Multifamily Buildings Distributed Energy Resources Action Plan (Sacramento)
- June (TBD): Energy Equity Indicators Staff Webinar (Online)
- August 29: Joint Agency Workshop on SB 350 Equity Achievements (Sacramento)

For more information, materials, and to sign up for listserve, go to:
http://www.energy.ca.gov/2018_energypolicy/

*Most of the above workshops relate to 18-IEPR-08 Energy Equity



Information and Resources

- 2017 Integrated Energy Policy Report (IEPR) - http://www.energy.ca.gov/2017_energy_policy/
- Energy Commission Funding Opportunities - <http://www.energy.ca.gov/contracts/>
- Energy Commission Tracking Progress Reports - http://www.energy.ca.gov/renewables/tracking_progress/
- Energy Commission Research and Development - <http://www.energy.ca.gov/research/>
- California Alternative and Renewable Fuel and Vehicle Technology Program - <http://www.energy.ca.gov/altfuels/>
- California Energy Almanac - <http://www.energy.ca.gov/almanac/>
- California Climate Change Portal - <http://climatechange.ca.gov/>



Questions / Comments



Michael J. Sokol
Special Coordinator – SB 350
Michael.Sokol@energy.ca.gov
916-654-4516