STATE-BY-STATE
GREEN ENERGY UPDATES

CALIFORNIA

- **Legislation**
    - On May 9, 2018, the California Energy Commission mandated that all new homes (with a few exceptions) include rooftop solar beginning in 2020.

    - On September 10, 2018, Governor Jerry Brown signed Senate Bill 100 requiring 100% of the state's electricity must come from carbon-free fuel sources by 2045.

- **Incentives**

    California has two cities in the top 20 markets and eight areas that are still on the charts of cities with high market activity.

    The top markets to watch in the U.S. for overall real estate prospects in 2019 include: Los Angeles (#14), Orange County (#15), San Jose (#26), Oakland/East bay (#28), San Diego (#30), Inland Empire (#40), San Francisco (#41), Sacramento (#57).

    The top markets to watch in the U.S. for homebuilding prospects in 2019 include: San Diego (#25), Oakland/East bay (#31), San Jose (#32), Los Angeles (#33), Orange County (#38), Sacramento (#41), Inland Empire (#42), San Francisco (#52)

    Energy Efficiency:
    ACEEE Energy Efficiency Scorecard: California remained in the #2 spot for the second year and continues to set the standard for other states. California ranks #2 out of 50 with a score of 43.5 (see: https://database.aceee.org/state/california)

    Incentives in IncentiFind database:

    - Commercial: 199 Incentives
        - Energy Efficiency: 101
        - Renewable Energy: 35
        - Water Conservation: 21
        - Other: 39

- Residential: 188 incentives

Notable Incentives:

Commercial: California leads in CHP (Combined Heat and Power policies) and offers several incentives to encourage cost-effective and efficient CHP installation. The utilities also have performance incentives for both electric and gas utilities.

Residential: California's 2019 Building Energy Efficiency Standards which start January 1, 2020 include a provision that requires solar on all new residential structures under three stories tall. The size of the solar pv system will be designed to net out the annual kilowatt-hour energy usage of the dwelling. Incentifind's database will allow customers to minimize the cost of these projects by layering all possible incentives.

- Los Angeles (68 results)
  - The Los Angeles Department of Water and Power offers multiple energy efficiency incentive programs for homeowners and businesses including appliances, building products, electric vehicles, heating and cooling equipment, and lighting[1].

- San Francisco (78 results)
  - Residential: The California Advanced Homes Program (CAHP) is a comprehensive residential new construction program with a cross-cutting focus on energy efficiency, sustainable design and construction, and emerging technologies. California's investor-owned utilities — Pacific Gas and Electric Company (PG&E), Southern California Edison, SoCalGas® and San Diego Gas & Electric Company (SDG&E®) are working together to help the building industry smooth the transition to the next state building code, develop more environmentally-friendly communities, and support

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[1] https://www.ladwp.com/ladwp/faces/ladwp/residential/r-savemoney/r-sm-rebatesandprograms?_adf.ctrl-state=h32bol5r0_37&_afrLoop=2300266540275405&_afrWindowMode=0&_afrWindowId=null#%40%3F_afrWindowId%3Dnull%26_afrLoop%3D2300266540275405%26_afrWindowMode%3D0%26_adf.ctrl-state%3Djvohkq50p_17

state efforts for new homes to reach Zero Net Energy (ZNE). Incentives are based on various levels of performance.

- Commercial: The Clean Vehicle Rebate Project (CVRP) is funded by the California Air Resources Board (CARB) and administered statewide by the Center for Sustainable Energy (CSE) in order to promote the production and use of zero-emission vehicles, including electric, plug-in hybrid electric, and fuel cell vehicles. Rebates are provided for various vehicles and fleets.

- San Diego (75 results)
  - San Diego offers expedited permitting available to residential and commercial construction which meets green building standards. The expedited permitting process is estimated to take 75% as much time as the normal permitting process[2].

  - The CSI-Thermal Program offers cash rebates of up to $4,366 on solar water heating systems for single-family residential customers. Multifamily and Commercial properties qualify for rebates of up to $800,000 on solar water heating systems and eligible solar pool heating systems qualify for rebates of up to $500,000. To be eligible, must be a utility customer of PG&E, SCE, SoCalGas, or SDG&E.

- Sacramento (84 results)
  - Residential: The City of Sacramento provides rebates to homeowners for water-efficient sprinkler systems, toilets, and clothes washers, and uses conservation specialists to identify home and business water savings opportunities[3].[4]

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[2] https://www.sandiego.gov/development-services/industry/incentive/sustainable
[3] http://www.cityofsacramento.org/Utilities/Conservation/Residents/Residential-Rebates
[4] https://database.aceee.org/city/sacramento-ca

- Residential: The Energy Upgrade California program serves as a one-stop shop for California homeowners who want to improve the energy efficiency of their homes through two programs. The Basic Upgrade program offers up to $3,000 in rebates for eligible energy improvements including attic, wall, and floor insulation, duct sealing, AC and furnace replacement and window replacements, and others. The Advanced Upgrade Package offers greater incentives for a wider variety of energy improvements. The program offers up to $6,500 in rebates for eligible improvements that include all the measures included in basic home upgrade package as well as additional measures for lighting, water heating systems, roof, and other customized upgrades.

- Commercial: Lodi Electric Utility provides an on-bill financing program for the commercial and industrial customers. To participate, the customer must receive a rebate through the utility's rebate program, and submit a contractor's proposal associated with an energy efficiency audit.