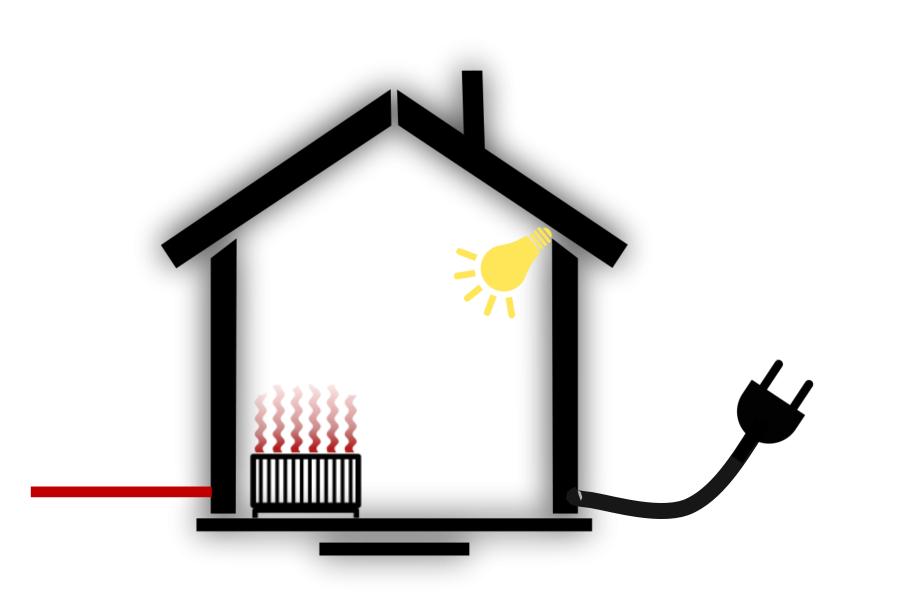


Local Governments Empowering Our Communities

Energy Efficiency and Existing Residential Buildings: Why Does It Matter?

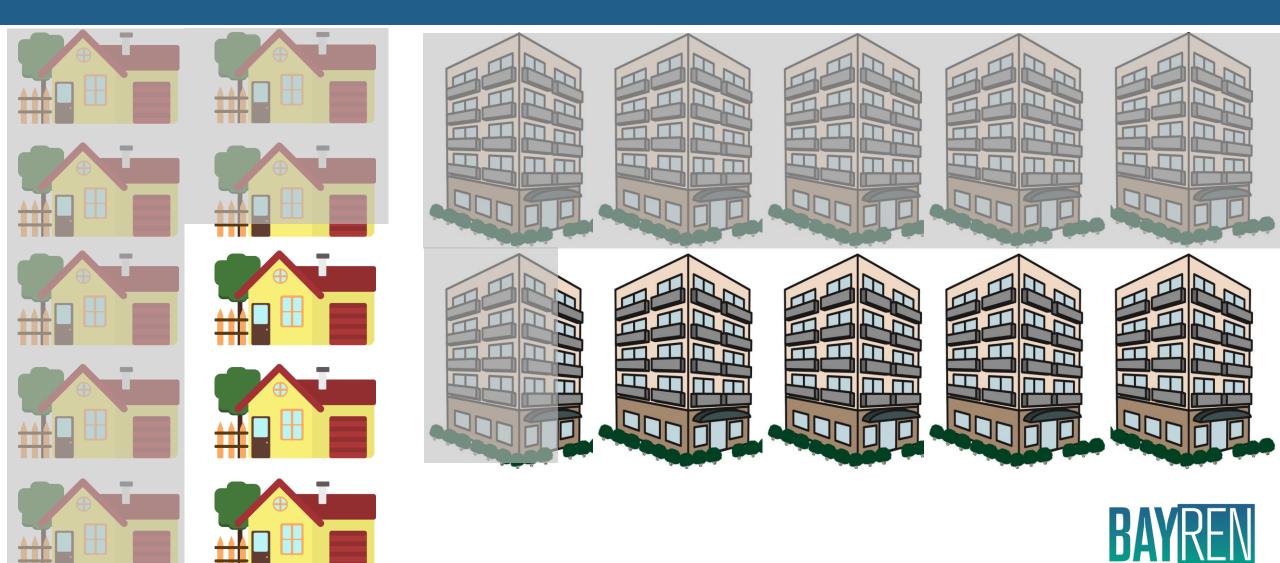
September 18, 2019

Existing Residential Buildings





Existing Buildings = Old(er) Buildings



Old(er) Buildings use more energy



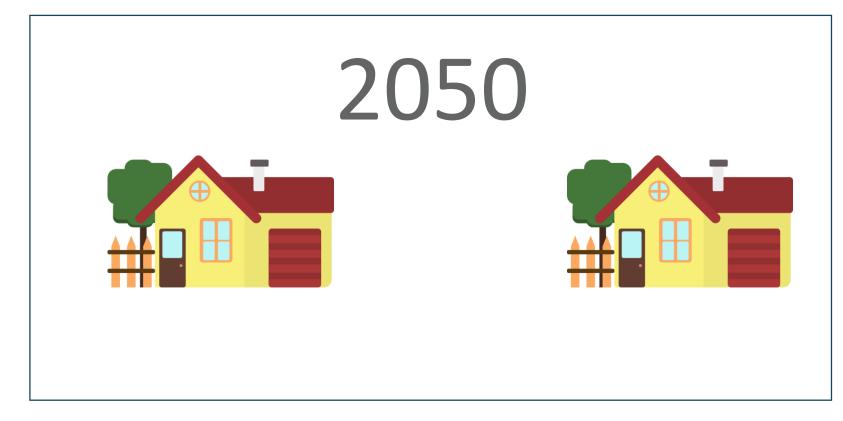


Existing Buildings = Slow to change (currently)



Existing Buildings = Long lasting

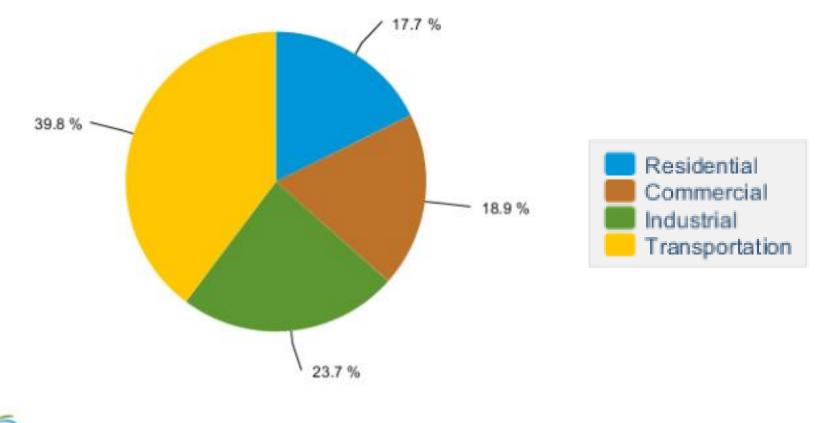






Energy Use by Sector

California Energy Consumption by End-Use Sector, 2016

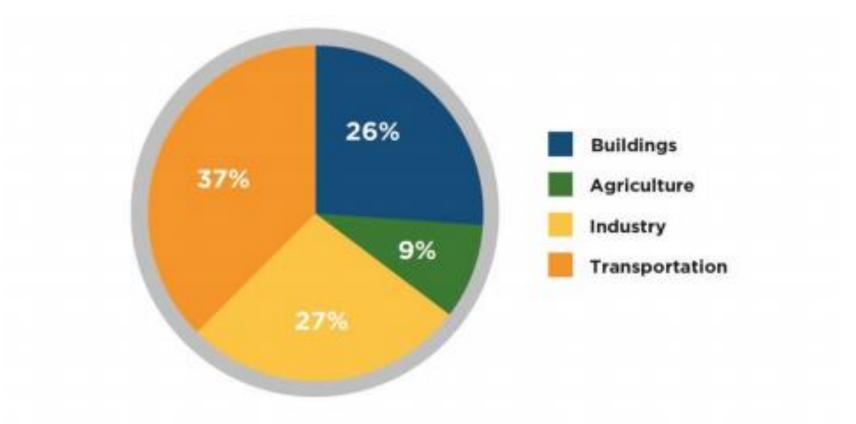


eia Source: Energy Information Administration, State Energy Data System

Excerpted from https://www.law.berkeley.edu/wp-content/uploads/2019/06/Low-Income-High-Efficiency-June-2019.pdf



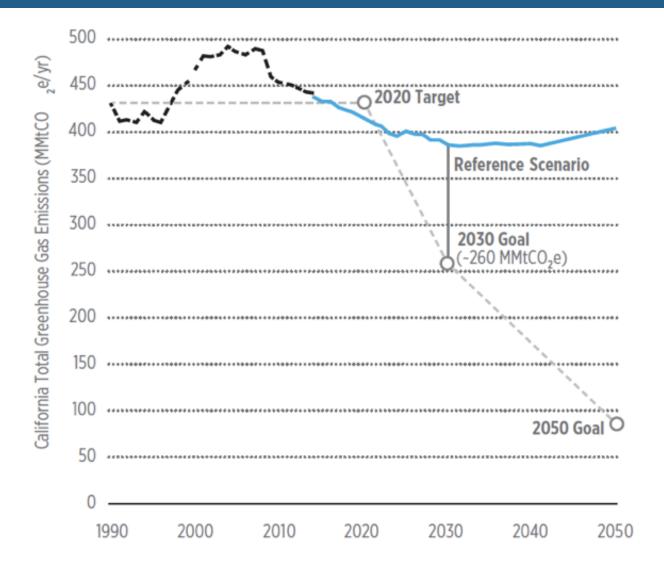
GHG emissions by Sector



Source: California Energy Commission using data from the California Air Resources Board 2018 GHG Inventory and the 2017 IEPR Electricity Demand Forecast



Improving existing buildings is necessary to achieve California's GHG reduction goals





Energy efficient buildings use less energy

Less energy use means:

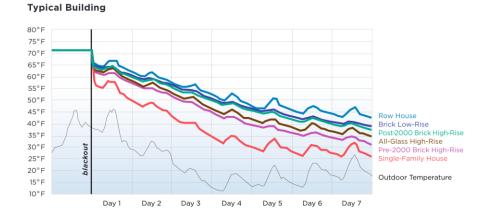
- Saving money in the long run
- Less impact on energy infrastructure/peak loads



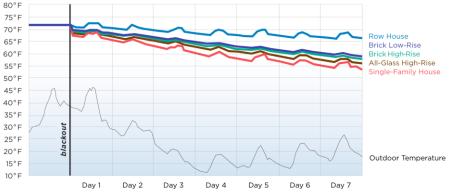


Energy efficient buildings are more resilient

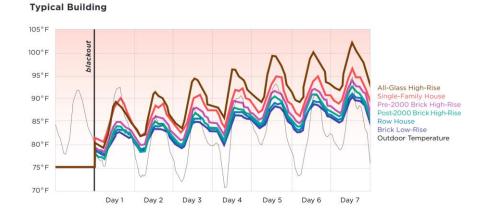
Indoor Temperatures During a Winter Blackout



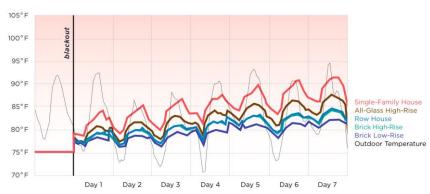
High-Performing Building



Indoor Temperatures During a Summer Blackout

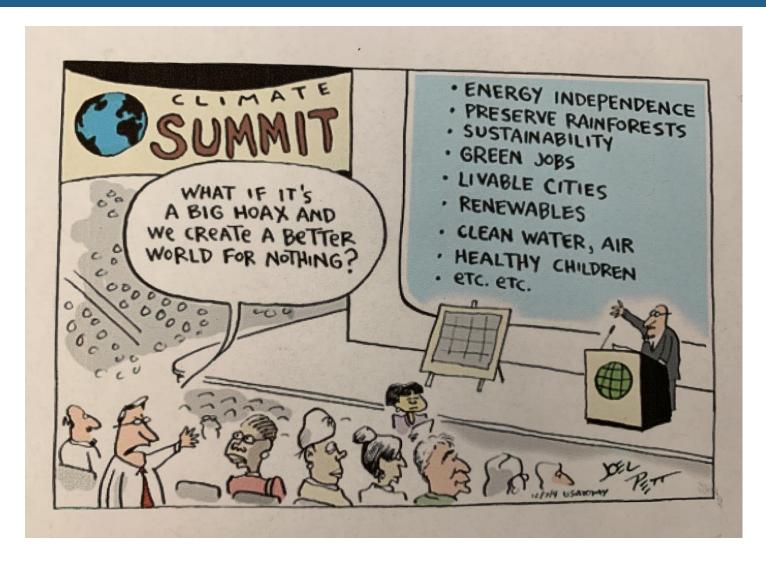


High-Performing Building



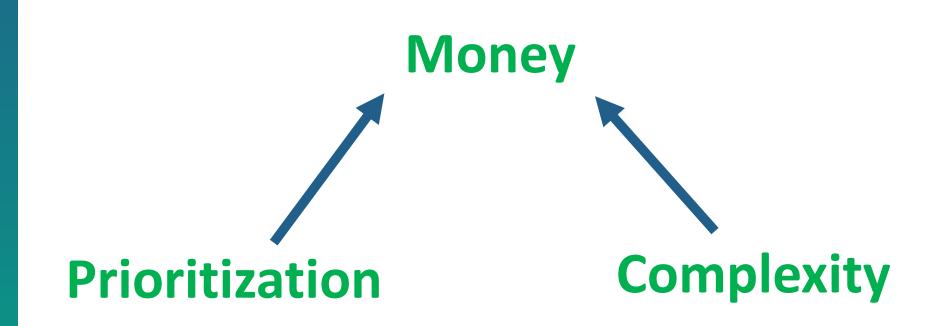


Why make buildings energy efficient?





Challenges





BayREN Codes and Standards Program

bayrencodes.org

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