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

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Existing Residential Buildings
Existing Buildings = Old(er) Buildings
Old(er) Buildings use more energy
Existing Buildings = Slow to change (currently)
Existing Buildings = Long lasting

2050
Energy Use by Sector

California Energy Consumption by End-Use Sector, 2016

Source: Energy Information Administration, State Energy Data System

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
Why make buildings energy efficient?
Challenges

- Money
- Complexity
- Prioritization
BayREN Codes and Standards Program

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