



 OCTOBER 8 & 9  DOWNEY, CA

# ET Summit Fall 2018

COMMERCIAL + RESIDENTIAL BUILDINGS

# Residential Codes and Standards

## The Future of New Construction in California

Martha Brook, P.E.  
Technical Advisor to Commissioner McAllister  
California Energy Commission

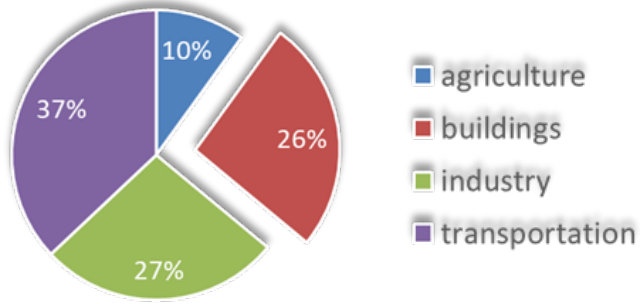


# California Policy Direction: BUILDING DECARBONIZATION

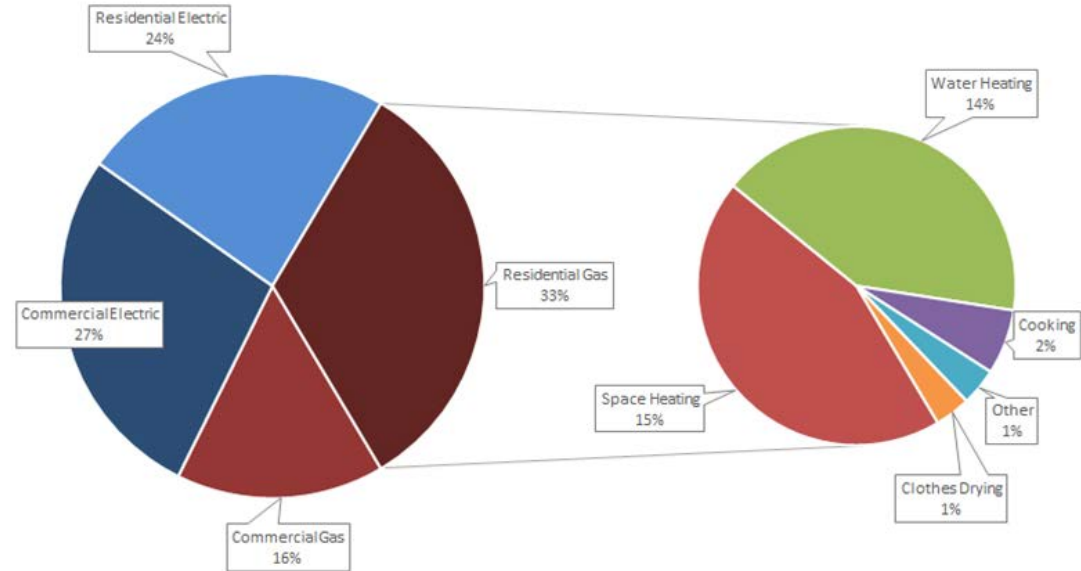
- Thermal Decarbonization Working Group of the [Pacific Coast Collaborative](#) (West Coast states, province, cities)
- First significant policy discussion - [2018 Integrated Energy Policy Report Update](#) ([Decarb Docket Log](#))
- [2018 legislation signed into law](#): new construction & replacement product incentives ([SB 1477](#)); plans to meet statewide building decarb targets ([AB 3232](#)); 100% Renewable Portfolio Standard ([SB 100](#))
- [Governor Brown's Carbon Neutrality Executive Order](#) – economy wide, by 2045

# California Buildings: CURRENT BASELINES

CA GHG Emission Inventory

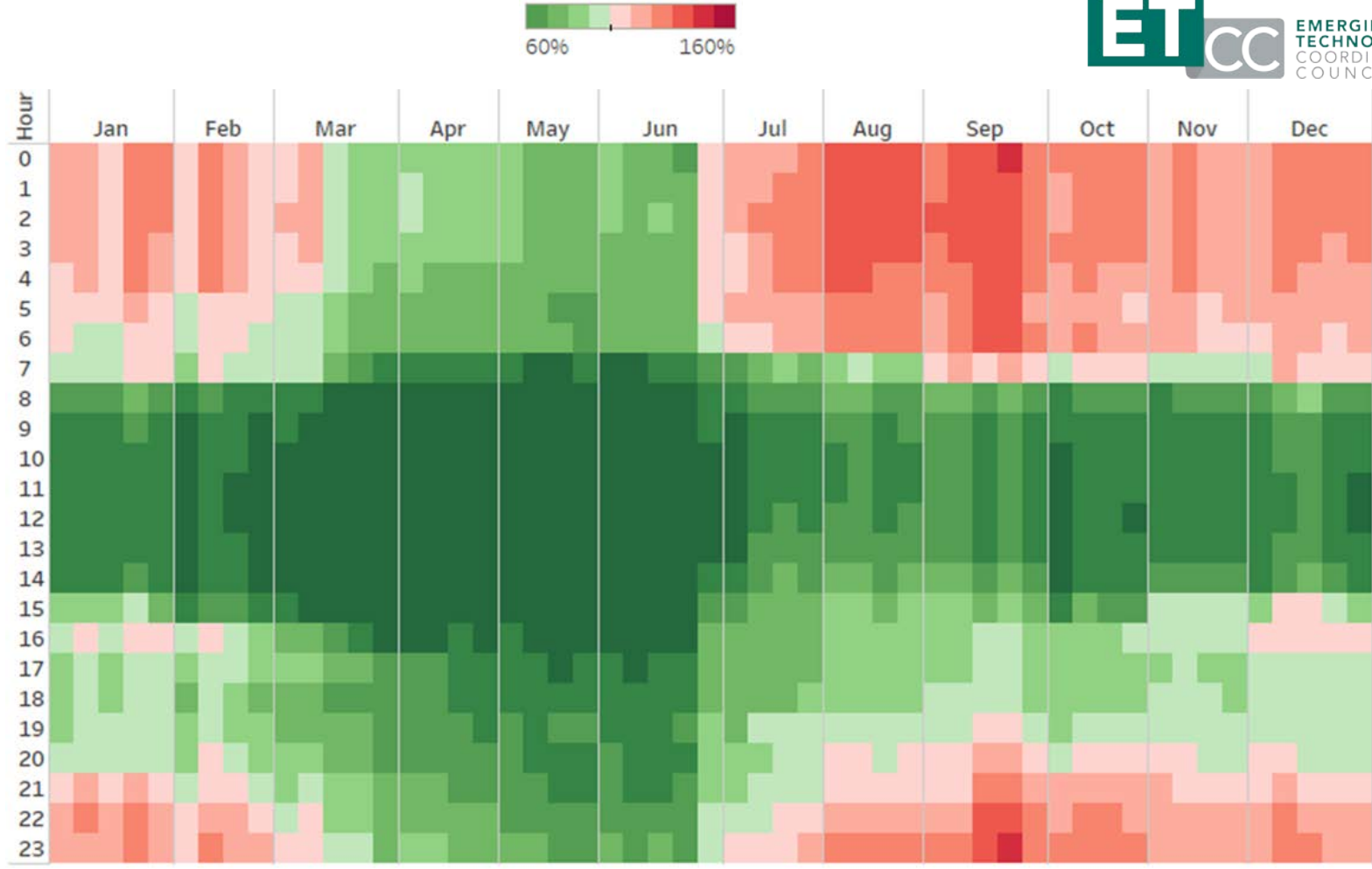


2016 Energy Use in California Buildings (MMBtu)



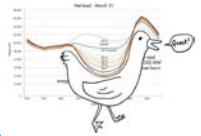
# 2030 California Average Electricity GHG Intensity

## Relative to Natural Gas



# FUTURE BUILDING STANDARDS

- Adopt an **energy metric** that aligns with **GHG emissions** (applied to all fuel types)
- Adopt a secondary **demand flexibility** metric (applied only to electricity)
- Implement performance trade-offs that **prioritize & protect the building envelope**
- Encourage cities to adopt local ordinances that support their **climate action plans**







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