

DOCKETED

Docket Number:	22-BUSMTG-01
Project Title:	Business Meeting Agendas, Transcripts, Minutes, and Public Comments
TN #:	243466
Document Title:	Presentation - Business Meeting Item 12
Description:	Presentation for Business Meeting Item 12: California Residential Methane Emissions Characterization (CARMEC) (Agreement PIR-21-008, LBNL)
Filer:	Maninder Thind
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	6/7/2022 1:55:26 PM
Docketed Date:	6/7/2022



Item 12: California Residential Methane Emissions Characterization (CARMEC) (Agreement PIR-21-008, LBNL)

June 8, 2022 Business Meeting

Dr. Maninder Thind, Air Resources Engineer
Energy Research and Development Division
Energy Generation Research Office



Benefits to Californians

- Improve CA's methane emission inventory
- Quantify benefits of decarbonization in buildings
- Inform development of cost-effective programs to reduce methane emissions from residential building sector

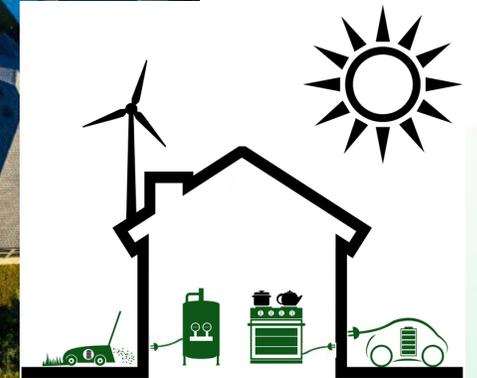


ABOUT OUR WORK RESOURCES SERVICES



California Greenhouse Gas Emission Inventory Program

Source: CARB



Source: RMI, The Economics of Electrifying Building ([Link](#)), EESI



Study Objectives

- Design and implement recruitment and measurement plan
- Measure methane emissions in a diverse sample of houses and apartments
- Monitor and record household gas consumption
- Analyze data to estimate emission factors

ENVIRONMENTAL
Science & Technology

Article

Cite This: *Environ. Sci. Technol.* 2018, 52, 10205–10213

pubs.acs.org/est

An Estimate of Natural Gas Methane Emissions from California Homes

Marc L. Fischer,*¹ Wanyu R. Chan, Woody Delp, Seongeun Jeong, Vi Rapp, and Zhimin Zhu

Energy Technology Area, Lawrence Berkeley National Laboratory, MS 90-2014, 1 Cyclotron Road, Berkeley, California 94720, United States

Supporting Information



Source: Fischer et al. 2018

Schematic of appliances and devices within a residence that contribute to CH₄ emissions (Source: Saint-Vincent et al. 2020)



Staff Recommendation

- Approve grant agreement
- Adopt staff's determination that this item is exempt from CEQA