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# California Energy Commission

2021 IEPR Workshop on Renewable Natural Gas

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# Goals for Today's Workshop

## Gas Track for 2021 IEPR addressing two key areas:

- Situational awareness of emerging topics in natural gas system planning
- Refinement and development of critical analytical products necessary for gas planning

## Today's Workshop focused on Renewable Natural Gas (RNG):

- Overview of RNG Market in California
- Presentations on RNG Supply, Availability, and Price
- Presentation on Policy Approaches for RNG

## Previous IEPR Workshops on Gas Issues

- Gas Infrastructure – May 20, 2021
- Gas Electric Interdependencies and Aliso Canyon – July 9, 2021
- Gas Market & Price Forecasts – August 30, 2021

## Anticipate future 2021 IEPR workshops on:

- Long-term Demand Scenarios
- Gas Demand Forecast



# RNG In California

**RNG is methane produced in a sustainable (renewable) manner**

- RNG is a by-product of other processes, such as waste disposal.
- Source at dairies, landfill gas, waste water treatment, and ag waste
- End use opportunities: electricity generation, space and water heating, and transportation fuel
- Most of CA RNG being used for transportation largely due to LCFS

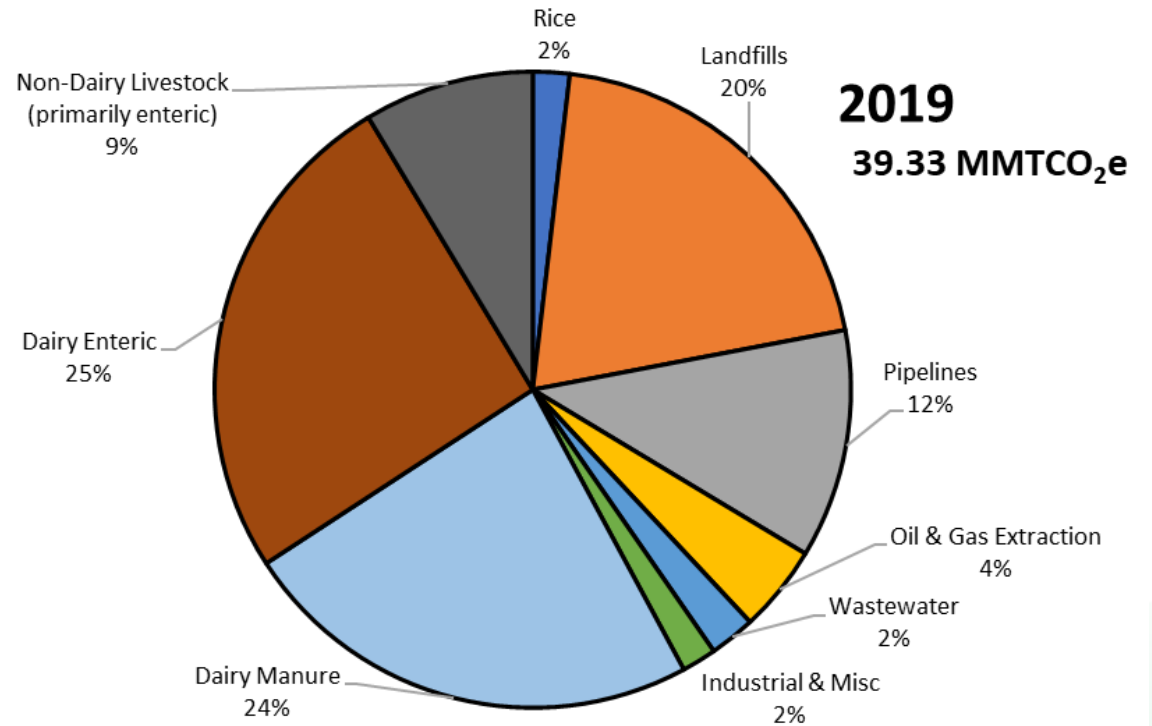




# RNG and GHG Emissions

- Agriculture and landfills are largest methane source; about 80% of total
- Converting waste to RNG has important societal benefit as solution to waste disposal
- Use in trucks and heavy-duty vehicles has climate benefit compared to the diesel fuel
- Injecting RNG into gas pipelines creates some methane leakage: about 12% of methane emissions

California 2019 Methane Emission Sources\*



**2019**  
39.33 MMTCO<sub>2</sub>e

\*Using 100-yr GWP from CARB's Scoping Plan



**Thank You!**