









Enhancing Transparency and Recognition of RNG Projects

2019 Natural Gas STAR & Methane Challenge Workshop

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Downstream Natural Gas Initiative

A group of leading natural gas utilities collaborating to address the role of natural gas in a low-carbon future

Key Issues

- Decarbonization pathway analysis
- Policy, regulatory, and market barriers to renewable natural gas (RNG) and hydrogen
- Engagement with large industrials to develop low carbon solutions
- Best practices to reduce methane emissions
- Ongoing leak detection technology research, development, and deployment
- EPA's Methane Challenge Program







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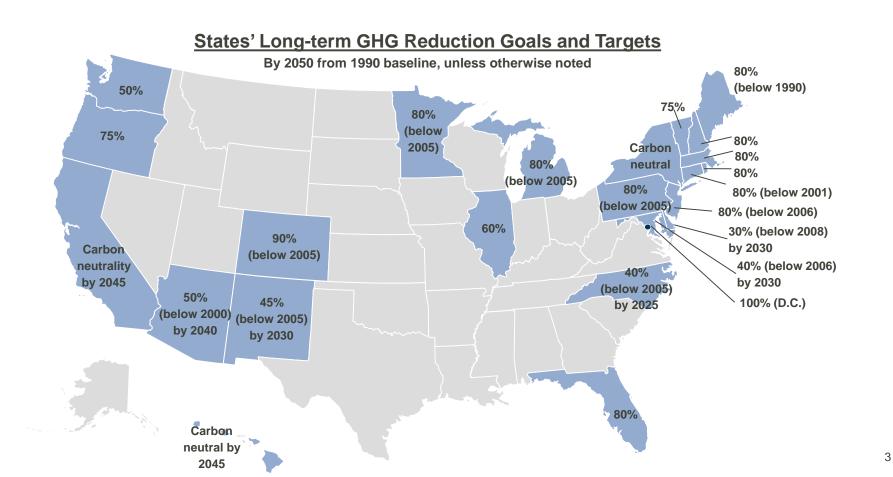






Role of Gas in a Low-Carbon Future

- Climate Alliance: 25 governors have pledged to meet Paris Agreement goals.
- We Are Still In: More than 2,800 entities, including businesses, investors, cities, counties, universities, and cultural institutions, have committed to the Paris Agreement.
- GHG Reduction Goals: 22 states and D.C. have long-term, economy-wide GHG reduction goals.



Supply-Side Initiatives

Natural gas utilities are taking several actions to support supply-side methane emission reductions from the producers that supply their gas.



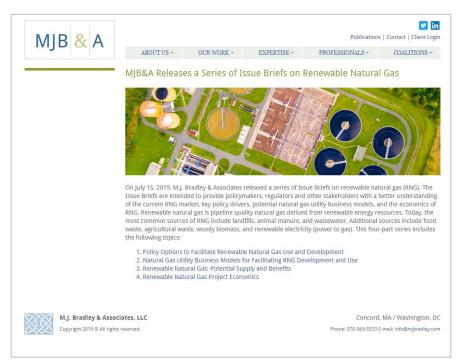
Responsible Gas
Procurement

Renewable Natural Gas

New Technology Investments

MJB&A RNG Issue Briefs

Overview of RNG benefits and supply, policies to support RNG use beyond the transportation and electric sectors, utility business models, and the economics of RNG projects.

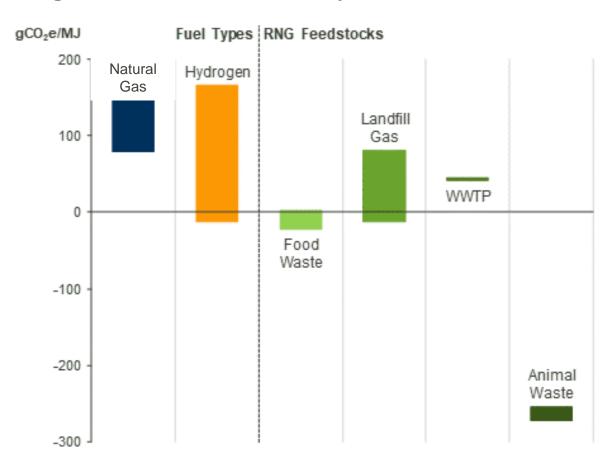


https://www.mibradlev.com/news-events/miba-releases-series-issue-briefs-renewable-natural-gas



GHG Benefits of Renewable Natural Gas (RNG)

Range of Certified LCFS Pathway Carbon Intensities



Other RNG Benefits

- Local economic activity and job creation
- Enhanced fuel diversity
- Local air quality improvements
- Uses existing infrastructure
- Beneficial use of waste streams
- More efficient use of energy (compared to onsite electric generation)

Source: California LCFS Approved Pathways, MJB&A analysis

Actions Promoting RNG

Renewable Natural Gas Standards

(California, Nevada, Oregon, and Washington)

Gas Quality Standards and Interconnection Guidelines

(Guide for RNG in New York)

Biogas Conditioning / Interconnection Tariffs

(SoCalGas, TECO Peoples, Southwest Gas Company)

Market Infrastructure

(Center for Resource Solutions, Midwest Renewable Energy Tracking System)

Voluntary RNG Offerings



- Approved in Fall 2017, program offers customers RNG blends of 10%, 25%, 50%, or 100%.
- Developed in response to customer demand – survey found 85% of customers willing to pay 10% more for a renewable product.

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- Proposed in April 2019 for National Grid's Brooklyn Union Gas and Keyspan Gas East customers.
- Decision Pending
- Program would provide tiered offerings for customers: flat rates for residential and flat rates or % of monthly consumption for nonresidential



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