

With Insights for Implementors

2025-1-30

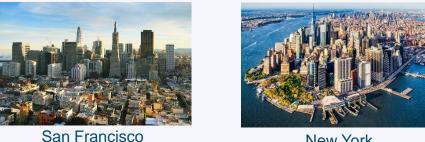




#### Who is E3?

Thought Leadership, Fact Based, Trusted.

### 130+ full-time consultants



**New York** 

30+ years of deep expertise



**Boston** 

Engineering, Economics, Mathematics, and Public Policy Degrees



Calgary



Denver

#### E3 Clients

300+ projects per year across our diverse client base



### **Recent Examples of E3 Projects**

- Creating economy-wide decarbonization scenarios for the United States Climate Alliance
- Developed a Business Diversification Study for Philadelphia Gas Works
- Supporting multiple utilities and state agencies to develop clean heat plans and electrification strategies
- Creating national heat pump adoption forecasts and strategy support for a major original equipment manufacturer

- Supporting Integrated Resource Plan of El **Paso Electric**
- Market analysis for emerging energy storage technologies like molten salt, iron-air and advanced pumped storage
- Supporting investment in 5+ GW of community solar and distributed energy resource projects
- Supporting the CPUC in developing the CA **Integrated Resource Plan**
- Hydrogen policy and market support for State of Colorado, Mitsubishi Americas, and ACORE

### **Key takeaways**

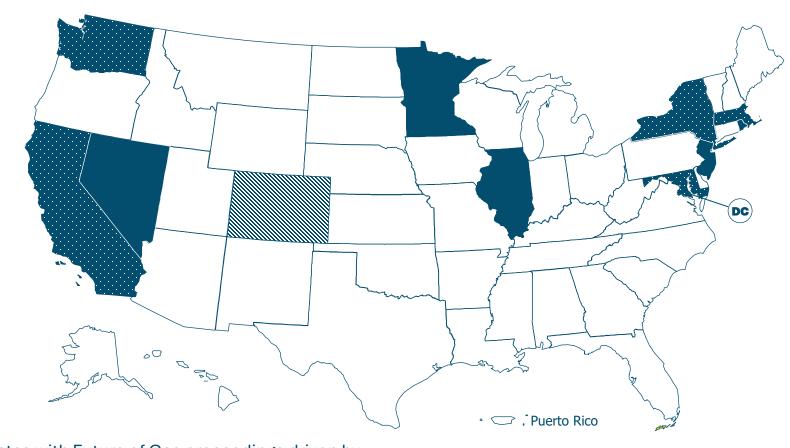
- + Future of gas proceedings have proliferated across North America. They seek to align gas utility planning and operations with state climate policy
- Proceedings have produced initial progress towards that alignment, particularly in areas related to gas
  infrastructure planning and non-pipeline alternatives (NPAs)
- + Expertise from professionals with experience delivering customer programs (you!) will be needed to effectively design and implement programs (including NPAs) to reduce gas sector emissions

# What is a Future of Gas Proceeding?



### Twelve states and D.C. have initiated Future of Gas Proceedings

State	Proceeding Date
California	2020 to 2024*
Colorado	2021 to Present
Illinois	2024 to Present
Maryland	2024 to Present
Massachusetts	2020 to Present
Minnesota	2021 to Present
Nevada	2021 to Present**
New Jersey	2024 to Present
New York	2020 to Present
Oregon	2020 to 2023
Rhode Island	2022 to Present
Washington	2021 to Present
D.C.	2020 to Present



States with Future of Gas proceedings driven by:



Economy-wide GHG reduction goal

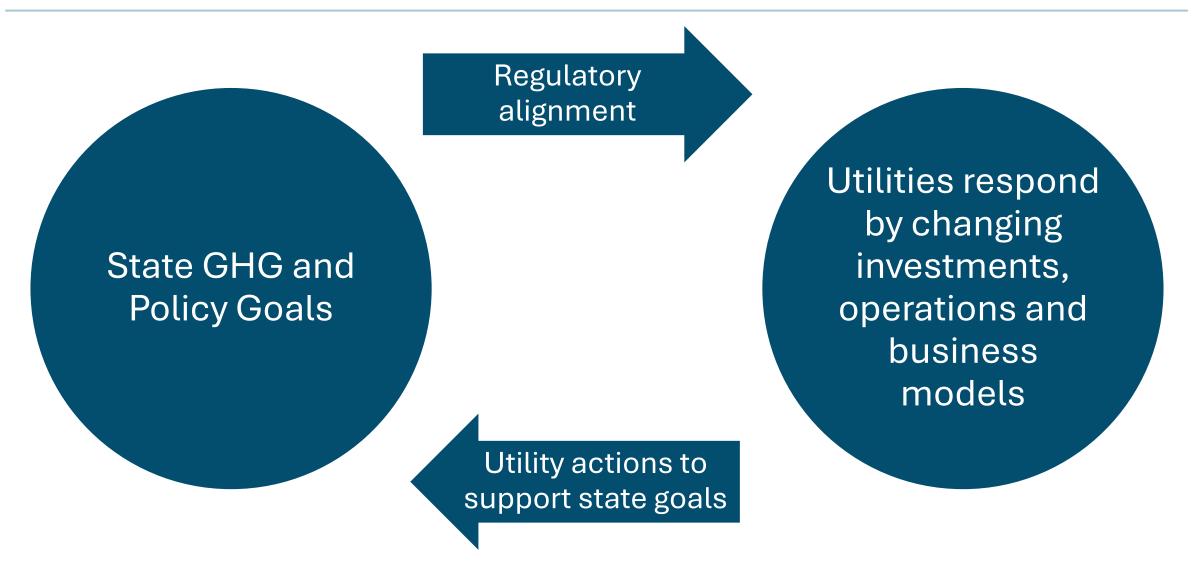


Economy-wide and gas-sector specific GHG reduction goals



Economy-wide goal and statewide decarbonization roadmap

### Proceedings are motivated by state policy goals and seek to align gas utility regulation with those goals.



## Future of Gas Proceeding Outcomes



### **Example policy and other outcomes (non-exhaustive)**

Near-Term Regulatory/ Operational Changes New Planning Processes

Policy preferences/ guidance

Modification of Line Extension Policies (MA, CA)

Long-term Decarbonization/ Transition Plans (MA, NY) Preference for technology options (CO, MA)

Require non-pipeline alternatives (NPA) as a condition for prudence (MA)

NPA Processes (CO, MA)

Support for new business models (MA, NY)

Funding for Clean Heat Programs (CO)

Integrated Gas & Electric System Planning (MA)

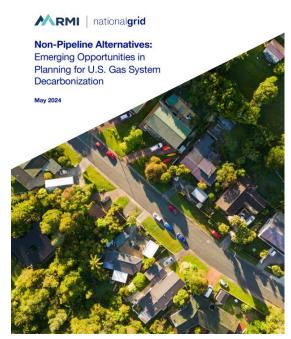
Concern for long-term affordability impacts (All)

## **Implementation Considerations**



### NPA processes are nascent, but likely to be a growing area of practice for program implementors

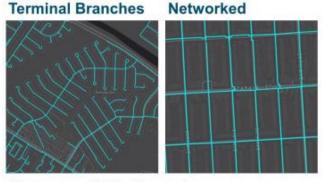
#### Where we've been



Source: National Grid and RMI, Non-Pipeline Alternatives: Emerging Opportunities in Planning for U.S. Gas System Decarbonization

- + A handful of utilities have attempted NPAs.
- + Success has been limited due to obligation to serve requiring 100% customer opt-in.
- + Projects that have seen success have typically targeted a small number of customers (1 to 5)

#### Where we're headed



Source: E3, Gridworks and Ava Community Energy - Strategic Pathways and Analytics for Tactical Decommissioning of Portions of Gas Infrastructure in Northern California

Blue = gas distribution mains

- Targeted electrification pilots
- + System-wide site identification, selection and evaluation
- + Integrated gas-electric system planning
- + Customer and community outreach
- Customer choice/ obligation to serve

### **Thank You**

dan@ethree.com

