

# CenterPoint Energy's Innovation Plan

Advancing decarbonization efforts in Minnesota

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#### Who we are

- Largest natural gas utility in Minnesota
  - 14,000-mile pipeline system
- Serve more than 910,000 customers and 260+ communities
- 1,200+ employees, nearly 70% union



#### Natural Gas Innovation Act (NGIA) background

- CenterPoint Energy
- Legislation passed in June 2021 with bipartisan support
- Allows investor-owned natural gas utilities to submit Innovation Plans to the Minnesota Public Utilities Commission (PUC)
- Establishes regulatory framework to deploy renewable energy resources and innovative GHG reduction technologies
  - Cost-recovery: rate base, purchased gas adjustment or separate tracker (rider)
- Multiple pathways to reduce emissions while providing reliable, cost-effective energy – especially the coldest Minnesota days

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#### **NGIA** innovative resources



- Supply-side
  - Biogas
  - Renewable natural gas (RNG)
  - Power-to-hydrogen (green hydrogen)
  - Power-to-ammonia (green ammonia)
  - District energy (networked geothermal)

- Demand-side
  - Energy efficiency
  - Carbon capture
  - Strategic electrification

### Innovation plan timeline

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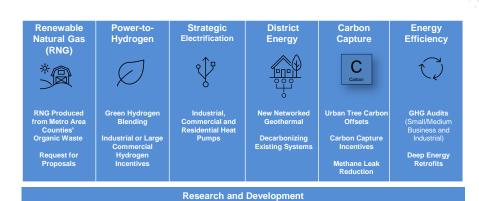
June 2021	June 2022	Summer 2022 – Spring 2023	Summer 2023	Fall 2023 – Summer 2024	2024 – 2029	Summer 2028
NGIA passed and signed into law	PUC approves carbon accounting and cost- benefit accounting	CenterPoint develops innovation plan, public engagement meetings	Submitted innovation plan to the PUC	Public comment and PUC review	Implement 5-year innovation plan, subject to PUC approval	Submit second innovation plan to the PUC
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- Initial comment period closed: Jan. 15, 2024
- Reply comment period close: March 15, 2024
- Supplemental comment period close: May 15, 2024

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## First innovation plan submitted to the PUC in June 2023





Net Zero Study, High Performance Building Envelopes, Weatherization Blitzes, RNG Study, Green Ammonia, Carbon Capture

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#### Investing in made-in-Minnesota resources

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- Purchasing pipelinequality renewable natural gas
- Green hydrogen blending pilot, produced from on-site solar



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### Installing new district energy systems



- CenterPoint Energy-owned networked geothermal system
  - Develop in a neighborhood (yet to be identified) in our existing service territory
- Customer-owned networked geothermal systems
  - Large business/school campuses or business developments provide opportunities



#### **Hybrid heating**

- Commercial focus: electric air source heat pumps with supplemental natural gas heating, rooftop units
- Residential focus: electric air source heat pumps with supplemental natural gas heating, along with deep energy retrofits





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#### **Industrial decarbonization efforts**

- 31%\* of Minnesota natural gas-related emissions in 2020 were from industrial customers
- We propose the following efforts for these customers:
  - Green hydrogen
  - Carbon capture
  - Industrial electric heat pumps
  - Innovative energy efficiency
  - Behind-the-meter methane leak detection





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# Innovating with customer affordability in mind

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- Proposed budget: \$106 million over five years
- Federal funding opportunities: expected to leverage \$17 million or more in federal incentives
- Estimated customer impact: <\$1.50/month for a standard residential customer monthly bill

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#### Our innovation plan's value to Minnesota



- Reduces 1.2 million metric tons CO2e over the lifetime of the proposed projects
  - Equal to about 14% of total emissions from natural gas supplied to our Minnesota customers in 2020 or the energy use of 150,000 homes
- Creates economic benefits and an estimated 3,000 full time equivalent jobs
- Advances emerging technologies to support long-term emissions reductions
- Reuses and reduces waste
- Invests in made-in-Minnesota low- and zero-carbon resources



## Thank you!



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