

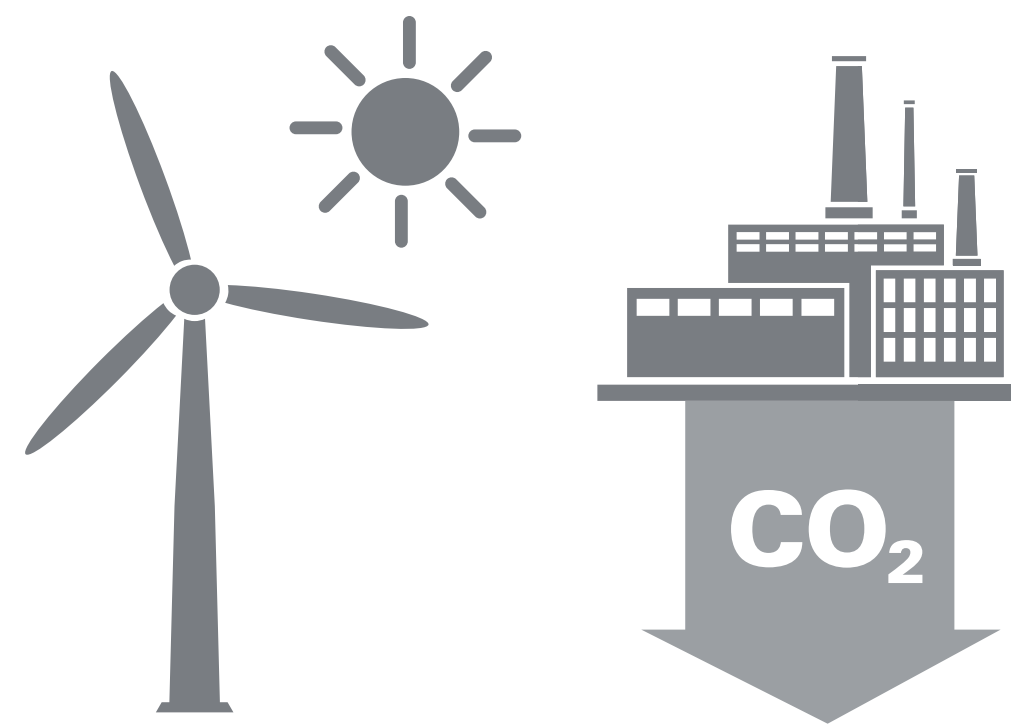


Hydrogen-Natural Gas Blending Demonstration Project

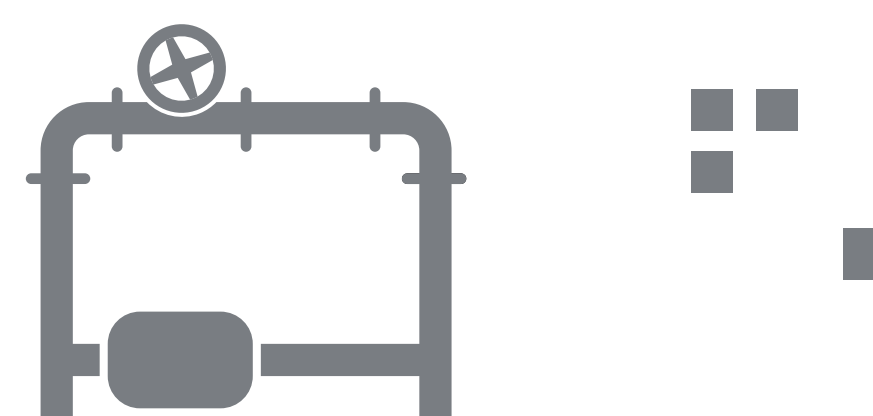
WELCOME

Public Open House

2050 NET-ZERO ENERGY GOAL



100% Carbon-Free Electricity



Net-Zero Natural Gas



Zero-Carbon Transportation

XCEL ENERGY'S CLEAN ENERGY VISION FOR NATURAL GAS

Reduce greenhouse gas emissions 25% by 2030*, on the way to delivering gas service with net-zero emissions by 2050

Our vision covers the supply, distribution and customer use of natural gas

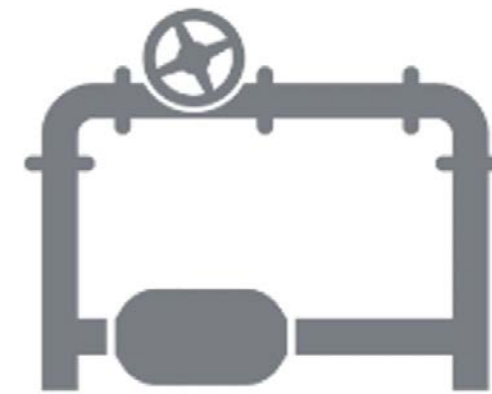
Natural Gas Suppliers



Influence natural gas suppliers

Purchase only natural gas with certified low-methane emissions by 2030

Xcel Energy System



Operate the cleanest system possible

Achieve net-zero methane emissions on the system by 2030

Customers



Offer more options and cleaner fuels

Expand conservation programs

Provide electrification options (water heaters, cooling-heating, all-electric new builds)

Pursue low-carbon gas supply, including hydrogen and renewable natural gas





ABOUT THE HYDROGEN-NATURAL GAS BLENDING DEMONSTRATION PROJECT



- Short-term demonstration to blend 2-10% hydrogen into natural gas in an existing distribution system.
- About 250 customers in Adams County will receive hydrogen-blended natural gas.
- Customers still enjoy the convenience of natural gas while using their existing appliances.

Early 2023:

Project identification and initial engineering



2023

Fall 2023:

Construction

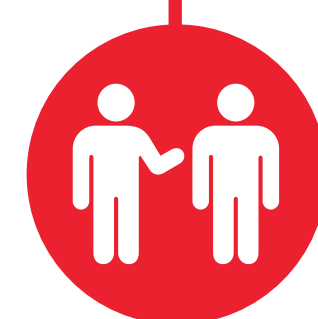


Late 2023-Late 2025:

Demonstration operating



2025



Early 2023 through Fall:
Permitting, engineering and public outreach



Late 2023:
In-service

2024



Late 2025:
Restoration and completion of the demonstration

Schedule is subject to change.



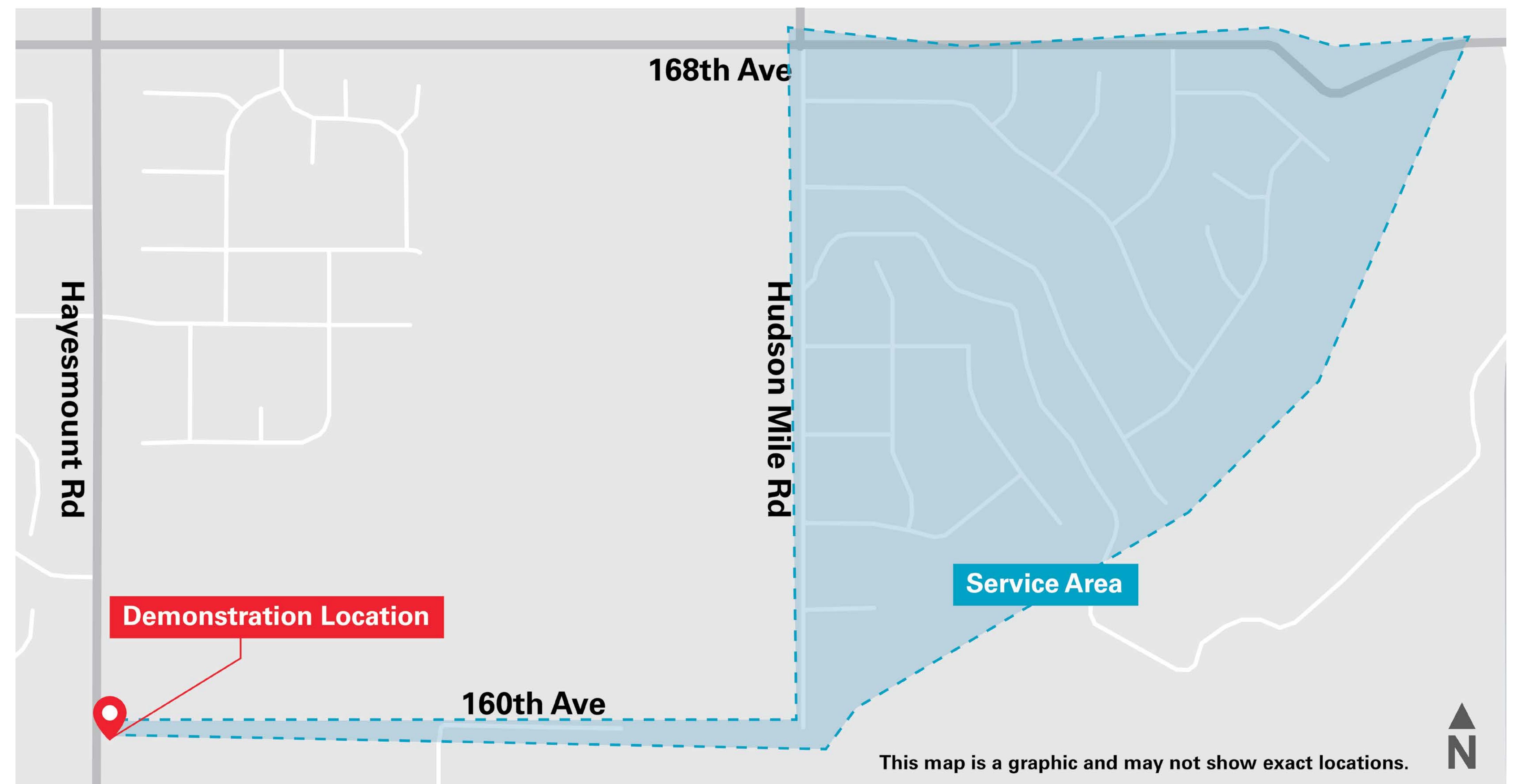
LOCATION



Proposed demonstration site located near 160th Avenue and Hayesmount Road

Location identified based on:

- System serving only residential customers
- Available land
- Being near existing natural gas infrastructure
- Compatibility with allowable land use





WORKING TOGETHER



We'll develop a demonstration that complies with permit and agency requirements and keep our stakeholders informed.

We'll seek the following permits and conduct consultations.

- Adams County Permitting
- Consultations with Agencies
- Coordination with Emergency Responders
 - Adams County Office of Emergency Management
 - Adams County Sheriff's Office
 - Brighton Fire Rescue District



WHY HYDROGEN?



- Hydrogen is a safe, reliable energy source that when blended into natural gas allows us to reduce carbon emissions.
- It has been used safely and reliably throughout the world for the last 50 years.

Hydrogen use in North America

| Hawai'i Gas

Safely providing hydrogen-blended natural gas since the 1970s.

| New Jersey Natural Gas

Providing hydrogen-blended natural gas in Howell since 2021.

| Enbridge

Providing hydrogen-blended natural gas to 3,600 customers near Toronto since 2021.

| CenterPoint Energy

Providing hydrogen-blended natural gas in the Minneapolis region since 2022.

| ATCO Gas

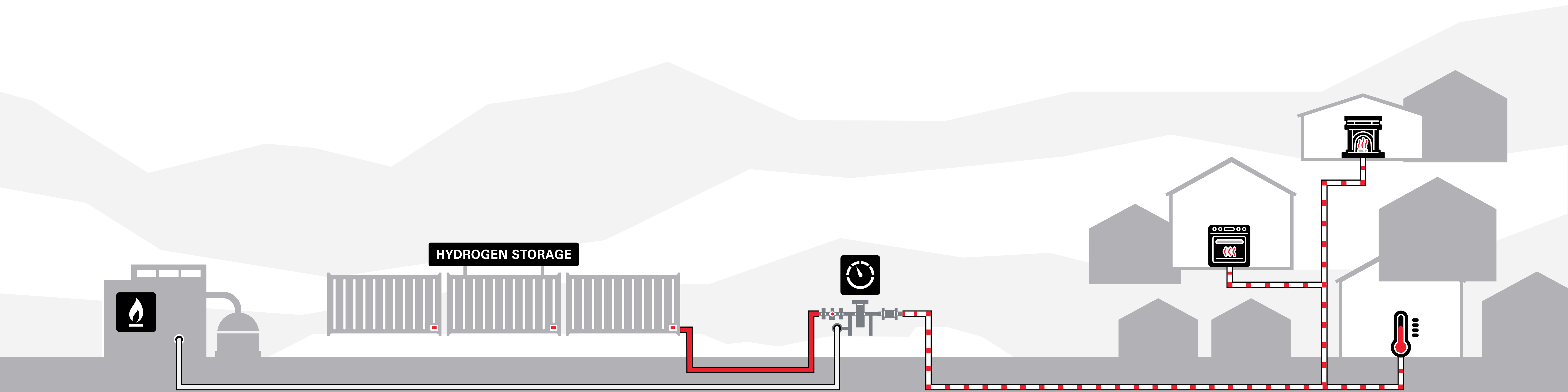
Providing hydrogen-blended natural gas to 2,100 customers in Alberta since 2022.

| SoCalGas

Working with University of California Irvine to provide hydrogen-blended natural gas (planned for 2024).



HYDROGEN-NATURAL GAS BLENDING PROCESS



Natural Gas Supply

We have an existing network of natural lines that serve customers throughout Colorado.

Hydrogen Supply

During this temporary demonstration, about 20-40 truckloads of hydrogen will be delivered each year to the location and safely stored until needed.

Natural Gas System Connection

Hydrogen will be blended into the existing natural gas system serving the community.

Blended Natural Gas

Up to 10% of the total natural gas blend local customers receive will be hydrogen.

Customer Use

Customers continue to enjoy safe, reliable service while using their existing appliances.



BENEFITS OF HYDROGEN-BLENDED NATURAL GAS



When implemented on a wider-scale in the future, hydrogen-natural gas blending will offer the following benefits to the communities we serve:



| Less Carbon

Blending hydrogen into natural gas reduces carbon emissions that would normally be released using just natural gas without hydrogen.



| Keep Your Appliances

With hydrogen-blended natural gas, there's no need to get new appliances or change how you heat your home.



| Convenient

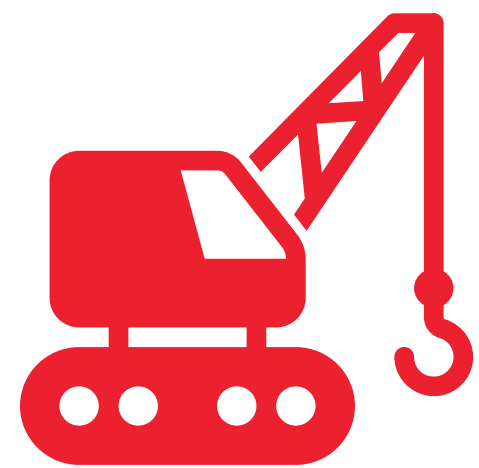
Hydrogen-blended natural gas offers the convenience of natural gas while allowing you to be a partner in reducing environmental impacts.



WHAT TO EXPECT



While we only plan for construction of this demonstration to take about 6-8 weeks, our goal is to limit inconveniences while we work. You may experience the following impacts:



Workers on-site, truck traffic and delivery of materials



Work during permitted hours



Noise



Testing procedures

Natural gas service interruptions are not expected.



DEMONSTRATION SAFETY AND SECURITY MEASURES



| Delivering safe, reliable energy.

Comprehensive safety measures:

- 24/7 monitoring.
- Equipment to identify leaks.
- Secure site.
- Hydrogen-blended natural gas will have a rotten-egg or sulfur-like odor.
- Remote shutoff in case of emergencies.

We'll provide emergency responders with details on how to respond to a potential emergency or a leak that involves hydrogen-blended natural gas.



NATURAL GAS SAFETY



| Public safety is at the foundation of all we do.

If you ever suspect a natural gas leak, leave your location immediately. Once safely away, call 911, then Xcel Energy at 800-895-2999.

Signs of a natural gas leak include:

- “Rotten egg” or sulfur-like odor. It may smell different to you, though.
- Hissing, whistling or roaring noise outside near the natural gas line or inside near appliances.
- Dirt spraying into the air or continuous bubbling in a creek or pond.
- Unexplained dead or dying vegetation.



CONTACT US



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