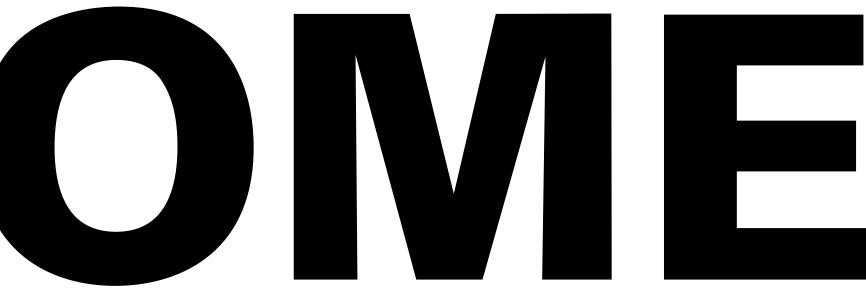


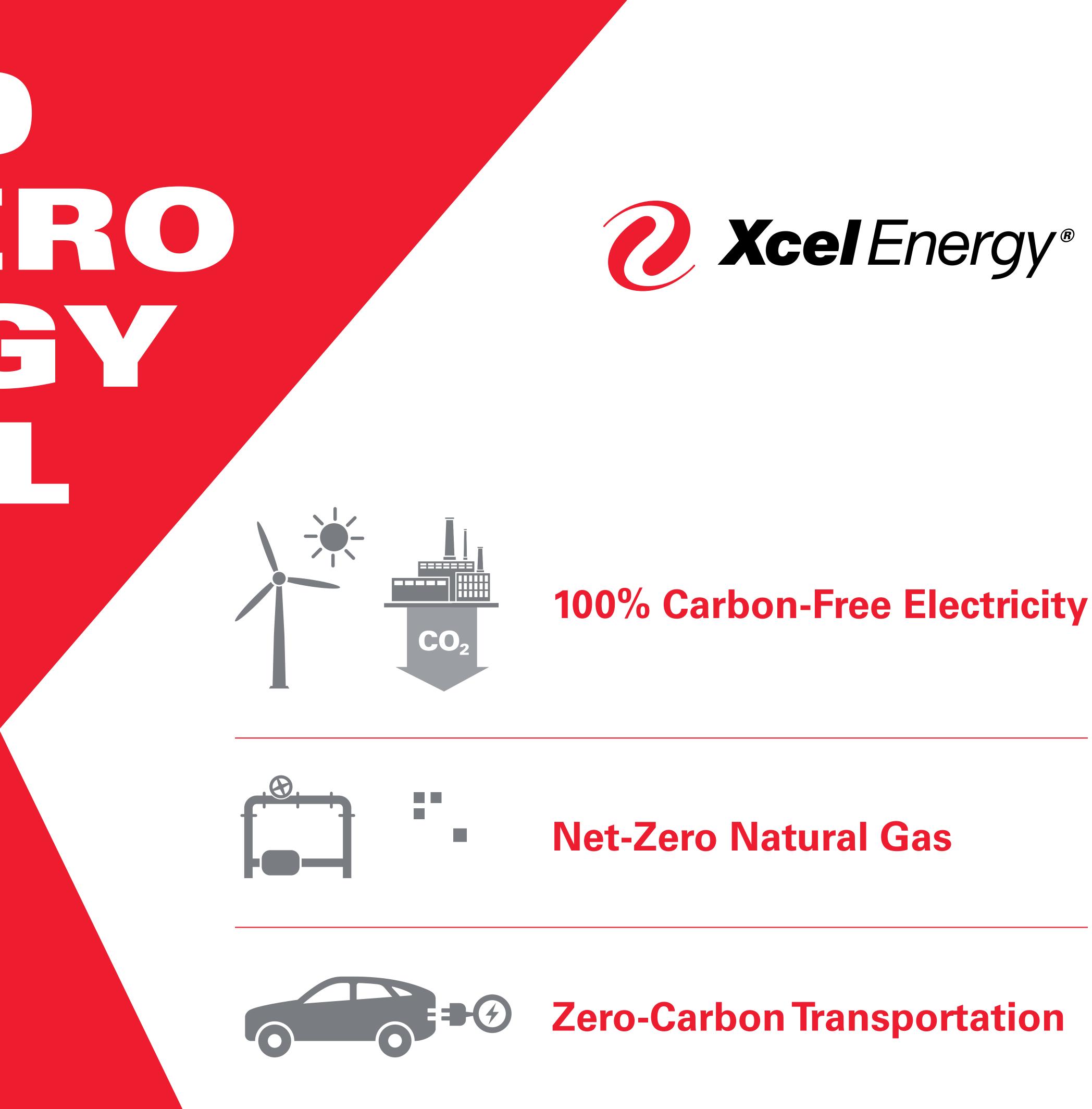
Hydrogen-Natural Gas Blending Demonstration Project

Public Open House









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



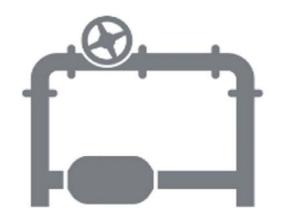
Influence natural gas suppliers

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

om | © 2022 Xcel Energy Inc. | Xcel Energy is a registered trademark of Xcel Energy Inc. | 22-08-3

xcelenergy.com | © 2023 Xcel Energy Inc. | Xcel Energy is a registered trademark of Xcel Energy Inc.

Xcel Energy System



Operate the cleanest system possible

Achieve net-zero methane emissions on the system by 2030

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



Customers



Offer more options and cleaner fuels



ABOUTTHE HYDROGEN-NATURAL GAS BLENDING DEMONSTRATION PROJECT

- distribution system.



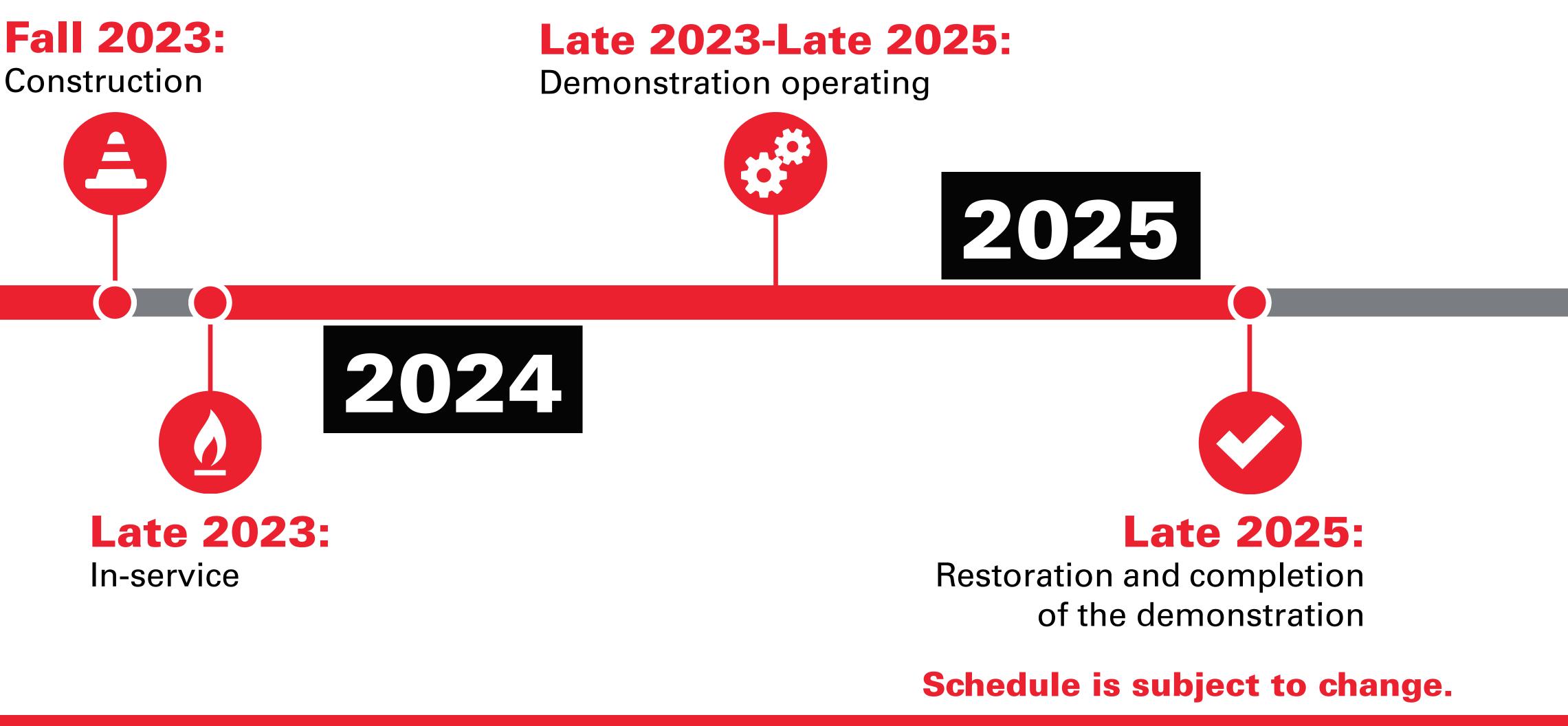




2023

Short-term demonstration to blend 2-10% hydrogen into natural gas in an existing

 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.



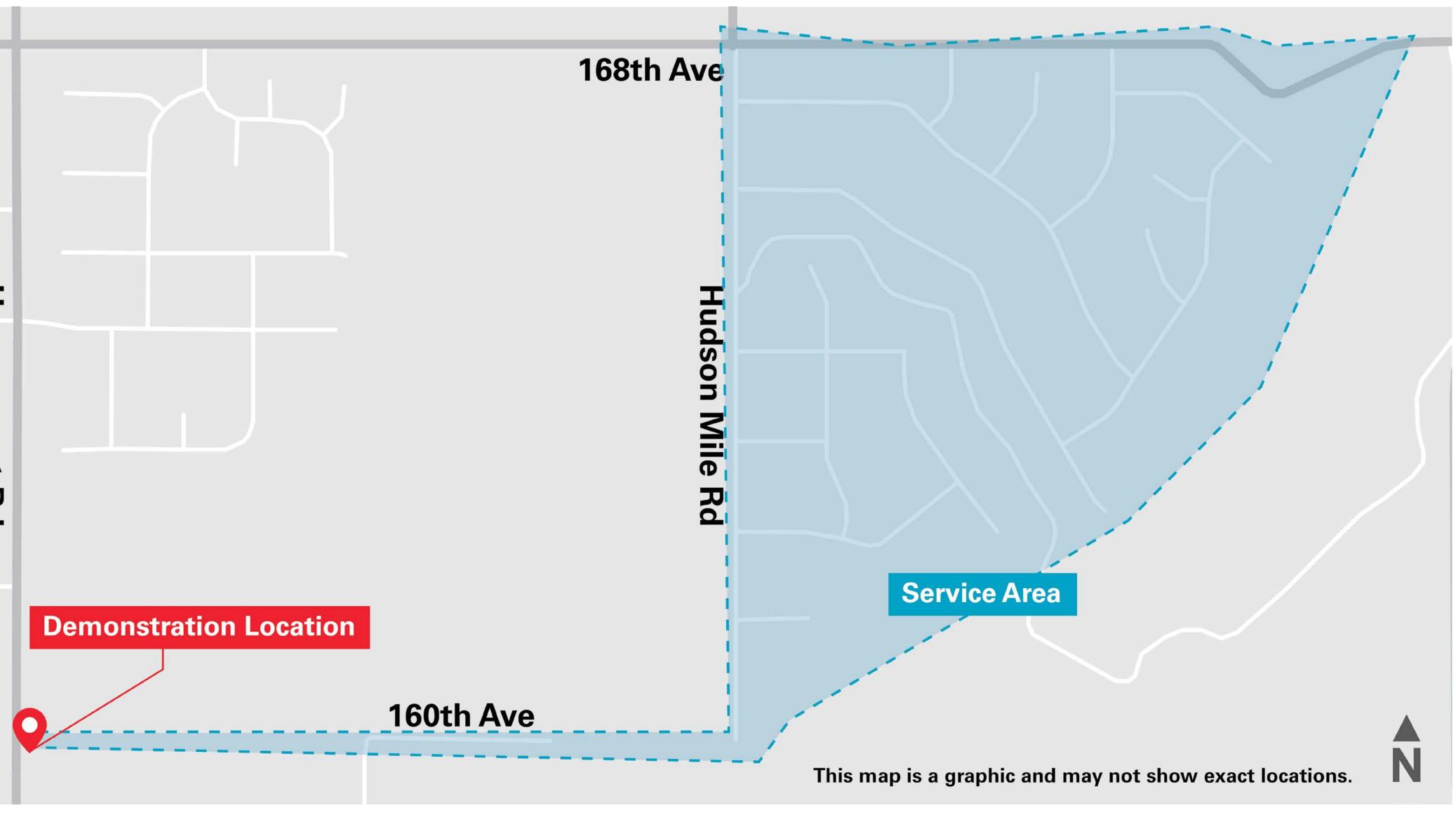




Proposed demonstration site located near 160th Avenue and Hayesmount Road

Location identified based on:

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





WORKINGTOGETHER

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

- - Office



Coordination with **Emergency Responders**

Adams County Office of **Emergency Management**

Adams County Sheriff's

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 hydrogenblended natural gas in Howell since 2021.

Enbridge

Providing hydrogenblended natural gas to 3,600 customers near Toronto since 2021.

CenterPoint Energy

Providing hydrogenblended natural gas in the Minneapolis region since 2022.



ATCO Gas

Providing hydrogenblended 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).

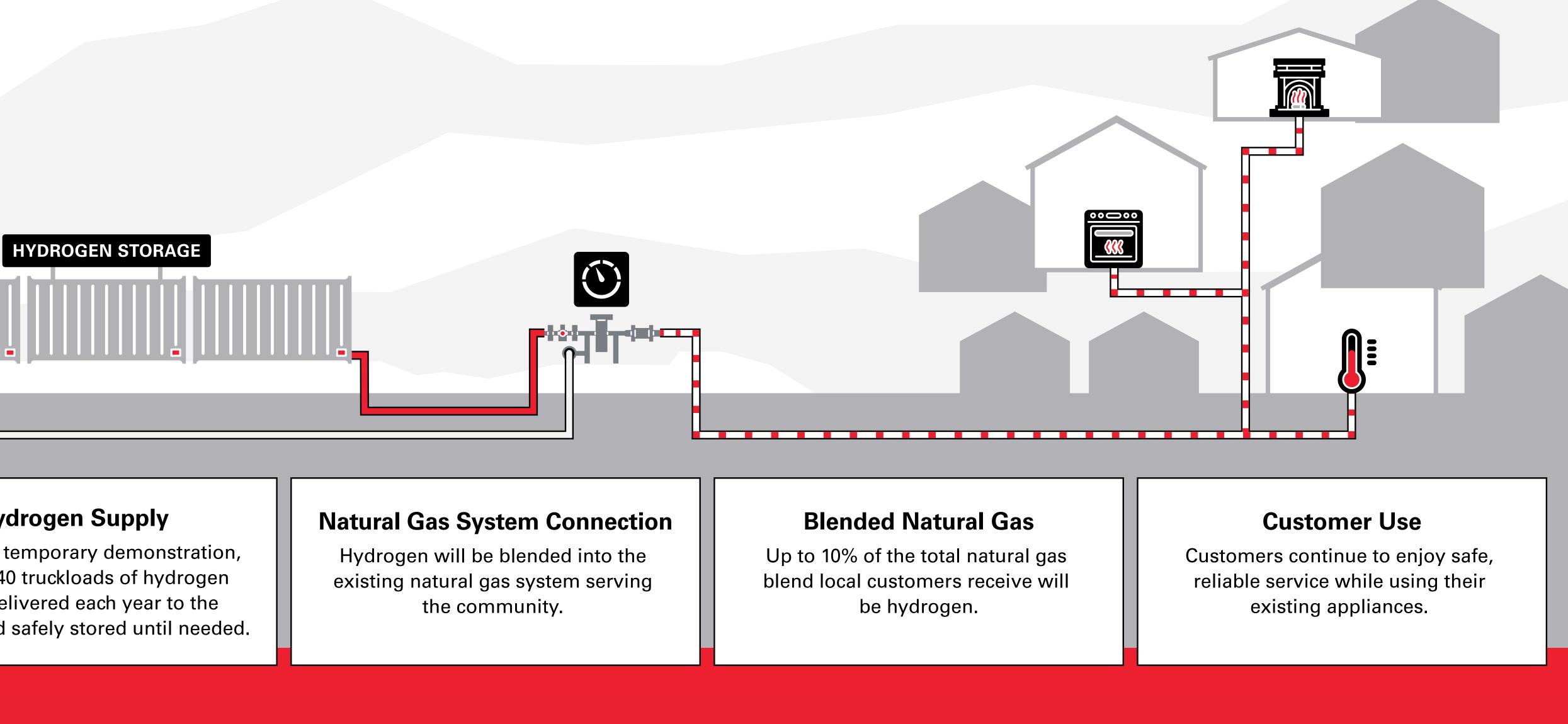
HYDROGEN-NATURAL GAS **BLENDING PROCESS**

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.





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

the following impacts:



Workers onsite, truck traffic and delivery of materials

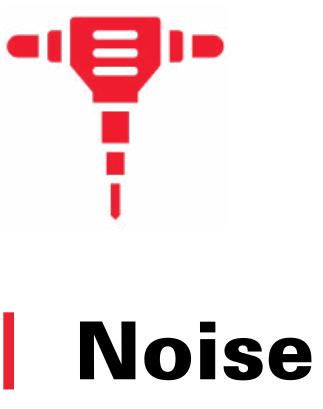


Natural gas service interruptions are not expected.

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







xcelenergy.com | © 2023 Xcel Energy Inc. | Xcel Energy is a registered trademark of Xcel Energy Inc.





Testing procedures

DEMONSTRATION SAFETY AND **SECURITY MEASURES**

Delivering safe, reliable energy.

Comprehensive safety measures:

- 24/7 monitoring.
- Equipment to identify leaks.
- Secure site.

- 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.

Hydrogen-blended natural gas will have a rotten-egg or sulfur-like odor.



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.

xcelenergy.com | © 2023 Xcel Energy Inc. | Xcel Energy is a registered trademark of Xcel Energy Inc.



Unexplained dead or dying vegetation.

PHOTO SIMULATION

Current Conditions

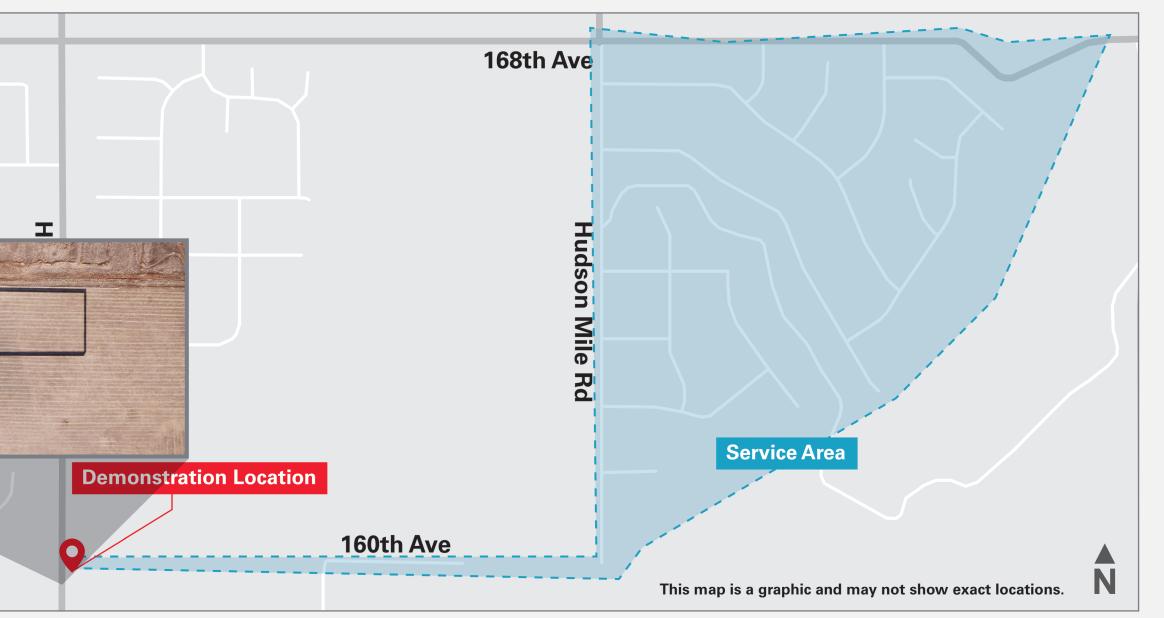


Date: Friday, March 10, 2023 **Coordinates:** 39°59′8.00″N x 104°38′26.31″W



Simulated Conditions







This simulation is a a graphic and may not show final conditions. Adjustments may be made based on final engineering design.

PHOTO SIMULATION

Current Conditions

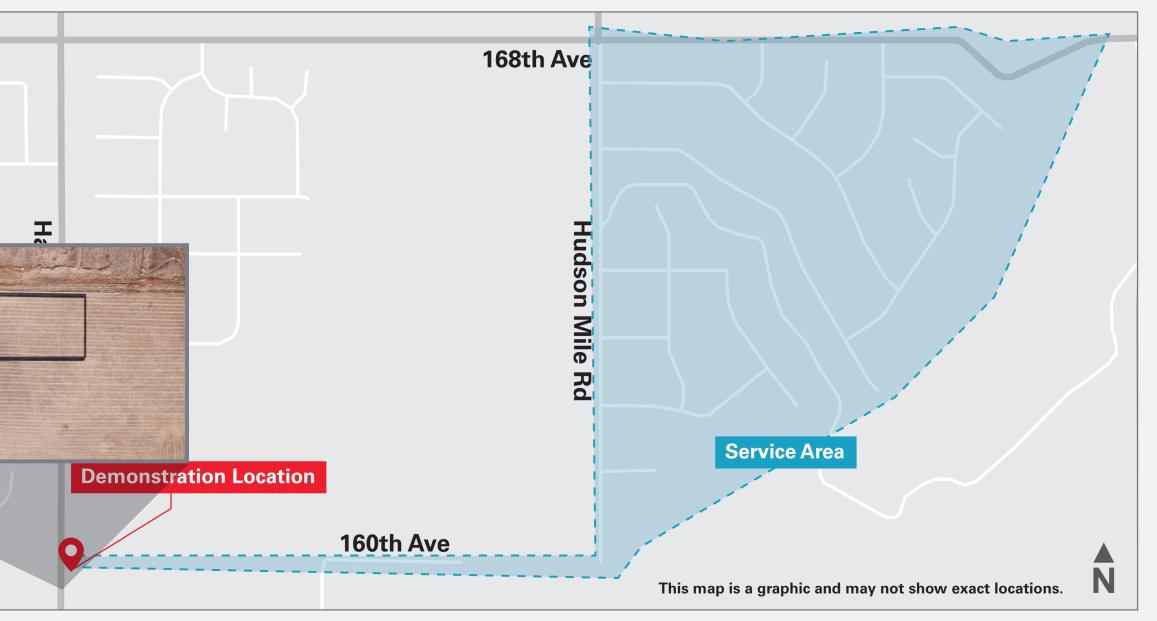


Date: Friday, March 10, 2023 **Coordinates:** 39°59′8.53″N x 104°38′26.30″W











This simulation is a a graphic and may not show final conditions. Adjustments may be made based on final engineering design.

PHOTO SIMULATION

Current Conditions

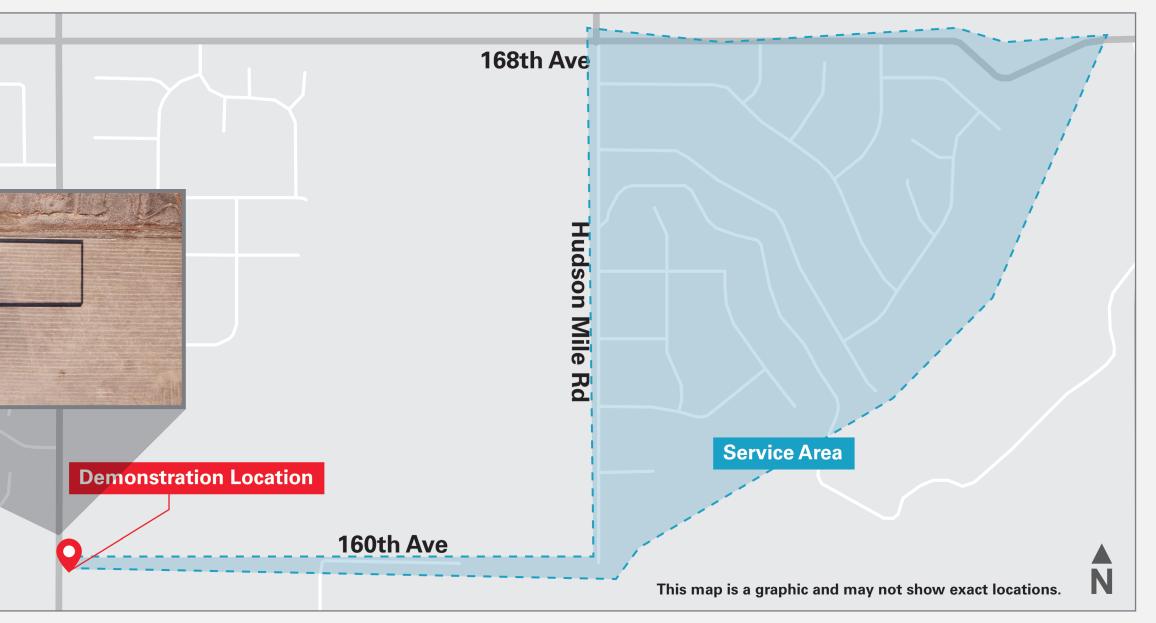


Date: Friday, March 10, 2023 **Coordinates:** 39°59′11.63″N x 104°38′26.75″W



Simulated Conditions







This simulation is a a graphic and may not show final conditions. Adjustments may be made based on final engineering design.







XcelEnergyAdamsDemo.com Connect@XcelEnergyAdamsDemo.com 720-780-3164