# FORT SASKATCHEWAN HYDROGEN BLENDING PROJECT

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# HYDROGEN (H<sub>2</sub>)

With its ability to provide energy without carbon, hydrogen presents an exciting opportunity for ATCO, Alberta and the world, and is becoming central to decarbonization plans around the globe. Blending hydrogen into natural gas networks is safe and already happening in places like Europe, Hawaii and Hong Kong.

### IS HYDROGEN SAFE?

Yes! As with natural gas, hydrogen can be produced, transported, stored and used safely. Just like natural gas, it must be treated with respect, proper care, and handling.

- H<sub>2</sub> is a colourless, odourless, tasteless, non-toxic and nonpoisonous gas
- When burned, it produces only heat and water vapour with no carbon emissions

#### H<sub>2</sub> POSSIBILITIES

Hydrogen has the potential to play an important role in a cleaner energy future



**Gas Network** 



Industrial Feedstock



Export



**Power Generation** 



**Heavy Transport** 

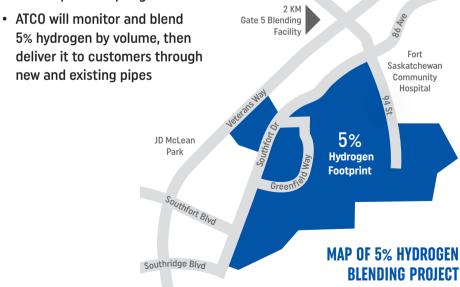


Storage

#### FORT SASKATCHEWAN HYDROGEN BLENDING

#### **PROJECT OVERVIEW**

- Starting in Q3 2022, ATCO will inject a small amount of hydrogen (5%) into a portion of Fort Saskatchewan's natural gas distribution system
- Appliances and piping of all homes and businesses in the project zone will be inspected prior to launch
- About 2,000 customers will be the first in Alberta to use blended hydrogen
- Hydrogen will be produced via electrolysis at ATCO's nearby Gate 5
  facility. Some onsite modifications are needed and construction will
  be on previously developed land, have no impact to the surrounding
  environment or wildlife, and is expected to
  be complete in spring 2022.



Fort Saskatchewan, Alberta

## FORT SASKATCHEWAN HYDROGEN BLENDING PROJECT





#### **HOW WILL THIS IMPACT MY HOME OR BUSINESS?**

- Extensive testing has found that hydrogen blended into natural gas systems at ratios up to 20% does not impact appliances
- There will not be an interruption to your gas supply as we transition from non-blended to blended gas
- There will not be any noticeable change in your gas supply at 5% blended gas. The look, sound, and smell of the gas will remain consistent
- There will be a minor increase in the volume of gas needed throughout the network in order to provide the same amount of heat to homes and businesses. Because customers pay for energy consumed, not volume, there will be no change to your monthly bills

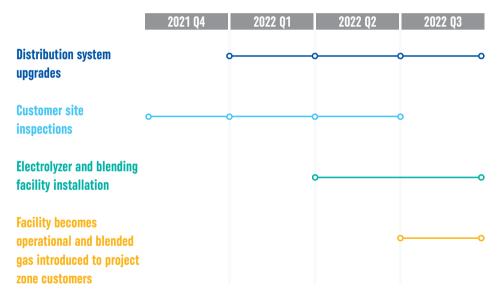
## **HOME AND BUSINESS INSPECTIONS**

ATCO plans to visit every home and business within the project zone this fall/winter.

- Customers will be asked to sign up for an appointment (details coming soon)
- During the 1-2 hour inspection, an ATCO representative will check and collect information on:
  - Your natural gas appliances
  - The integrity of the natural gas pipe

## **NEXT STEPS/TIMELINE**

- Continued testing of appliances and system safety for hydrogen blended service
- Continued updating of ATCO's internal processes to maintain safety standards



#### FOR MORE INFORMATION

- Go to atco.com/hydrogenblending to:
  - Sign-up for periodic email updates
  - · Find more project details as they become available
  - View a recording of the virtual Open House (September 29, 2021)
- Send your questions to H2@atco.com