

# Let's Bust Some Myths About Hydrogen

The case for hydrogen fuel cell vehicles and fueling is growing. But misinformation about its safety, viability, cost, and environmental impact persist.

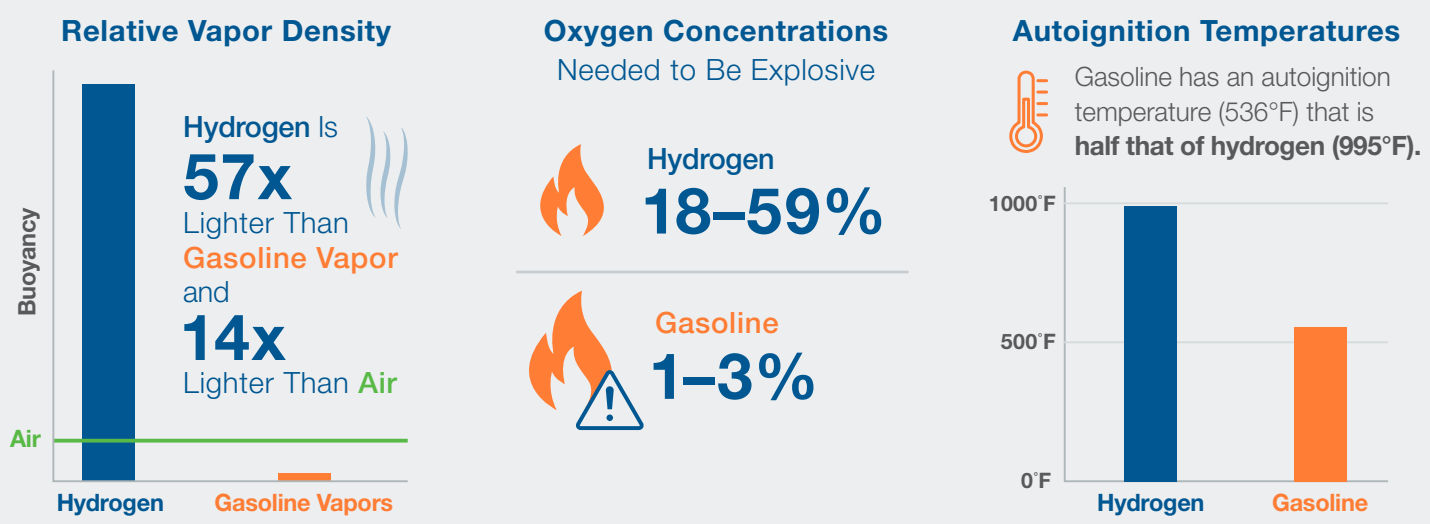
## MYTH:

Hydrogen gas is hazardous to store or use.

## FACT:

Due to its **nontoxicity and low volatility**, hydrogen can be less hazardous than conventional fuels.

**H<sub>2</sub> disperses rapidly if leaked, which reduces the risk of accidental ignition and explosion.**



Unlike conventional fossil fuels, a hydrogen fuel spill is non-toxic to the environment.



When handled and maintained properly, pressurized gas storage is safe. A global multibillion-dollar industry has been producing and transporting hydrogen for decades.

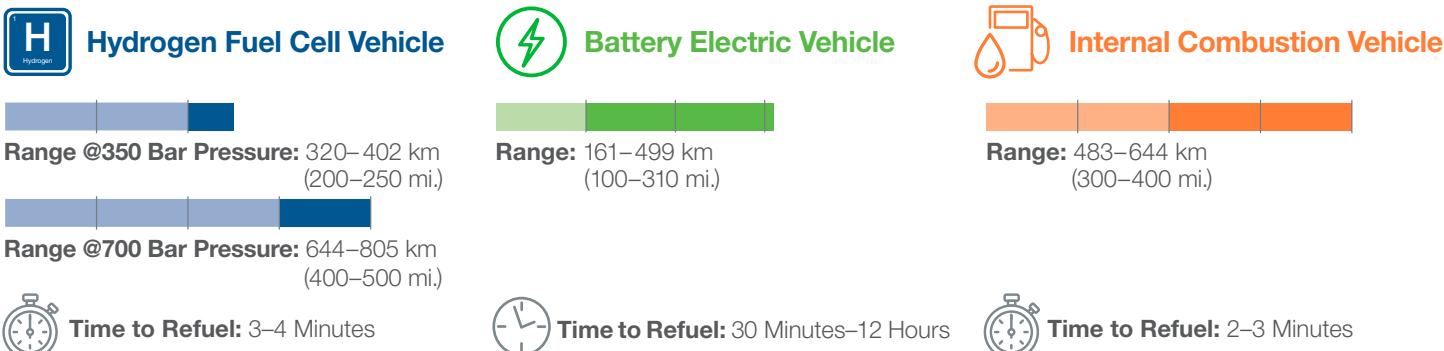
## MYTH:

Hydrogen-fueled vehicles are not a practical long-range solution.

## FACT:

Hydrogen has high energy density and can deliver a **comparable driving range to traditional fuels**.

**Driving range is a critical consideration for any fuel technology—and hydrogen delivers.**



Hydrogen is the most abundant element in the universe.



Hydrogen refueling equipment can be added to existing refueling station infrastructure and deliver comparable refueling times to gas and diesel.

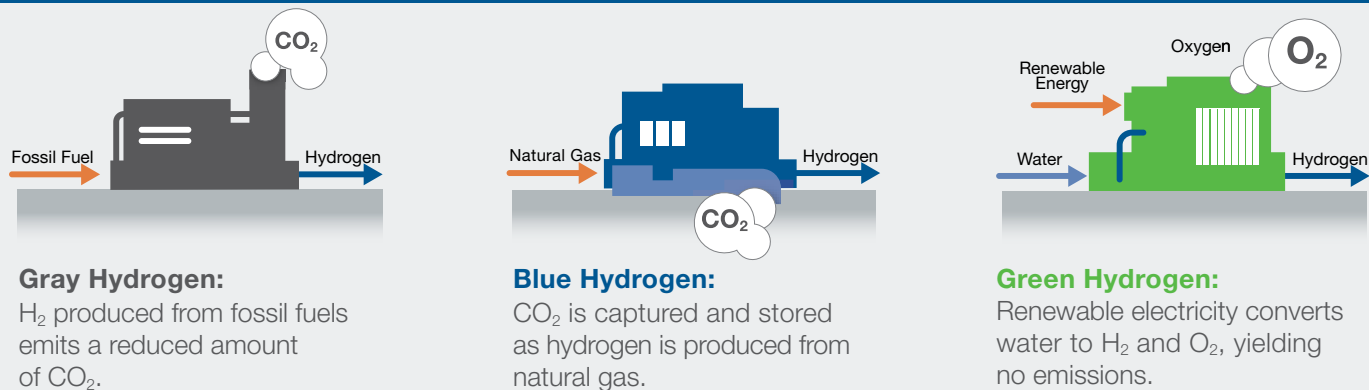
## MYTH:

Hydrogen is not environmentally friendly or sustainable.

## FACT:

There are several ways to generate hydrogen, and **most of them are more environmentally friendly than fossil fuels**.

**Most hydrogen production processes reduce or eliminate CO<sub>2</sub> emission.**



Using hydrogen in a fuel cell creates no smoke or waste, and the only outputs are energy and pure water.



Carbon capture technology offers a way to sequester carbon and permanently store it (or use it) for industrial purposes.

## MYTH:

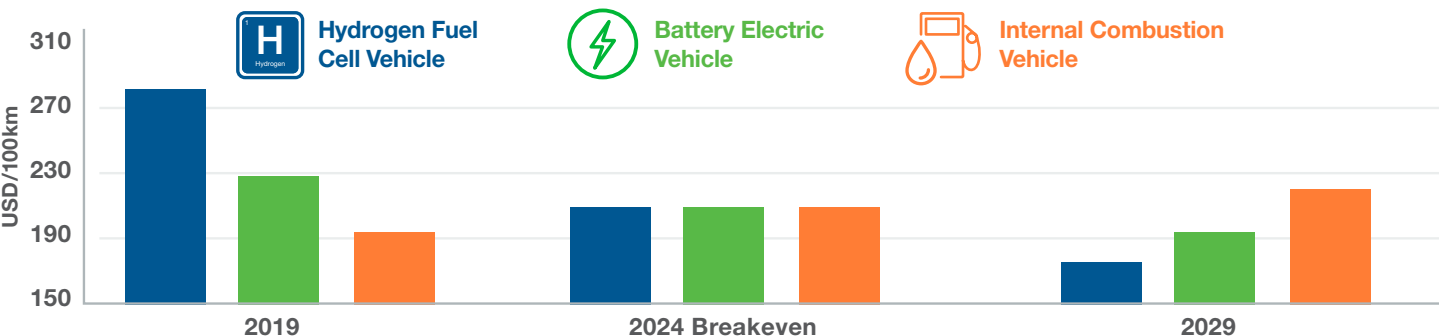
Hydrogen is too expensive.

## FACT:

Conventional fuel remains cheaper today, but **the price of green hydrogen continues to fall**.

**Fuel cell buses will be cheaper to operate than electric and internal combustion buses by 2024.\***

\*Deloitte prediction based on total cost of ownership/USD per 100km.



The price of green hydrogen is projected to be cheaper than natural gas by 2050.



High-quality components reduce the occurrence and cost of unexpected maintenance.

**Working on developing safe, leak-tight systems? Contact our clean energy specialists to learn more about solutions for hydrogen fueling systems.**

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