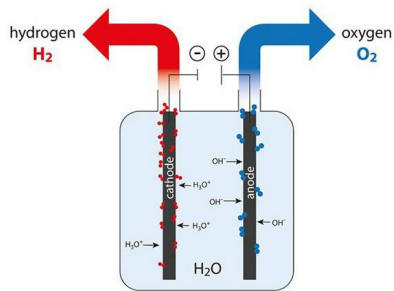


# Green Hydrogen Spec Sheet



## Waste-Derived Hydrogen Fuel

Not all hydrogen is created the same. There are different classifications for hydrogen fuel based on the method of production and where the energy used in the production process comes from, with the main classifications being **grey** and **blue** for processes involving fossil fuels and **green** for hydrogen produced through **electrolysis** that's powered by **renewable energy**.



Traditionally, green hydrogen is produced using solar or wind power to electrolyze the hydrogen out of water.

From  $2\text{H}_2\text{O}$  you get  $2\text{H}_2$  &  $\text{O}_2$

At Firepoint Energy, we use the same science of electrolysis, but it's our power source that sets us apart.

We generate our own power from the gasification of waste coal, into a syngas... we then use that syngas to power turbine systems to produce energy for our plants. The plasma gasifiers and other equipment we use don't require huge amounts of energy, so we're left with a large amount of surplus energy that we can use to power electrolyzers and produce green hydrogen. We can also extract hydrogen from our syngas using pressure swing absorption equipment.

## Acid Mine Drainage Water Supply

By repurposing the wastewater from a waste coal pile or acid mine drainage (AMD), we can increase our hydrogen production above what we need for synthetic jet fuel production. By using the AMD we are reusing another waste stream.

## Hydrogen Hub Network

Since there are over **nine thousand waste coal piles** distributed throughout the state of Pennsylvania, it only makes sense to tap these waste coal piles to not only produce jet fuel and other fuels, but also **green hydrogen**. This would enable the production of enough hydrogen from waste coal to develop a hydrogen hub in Pennsylvania with green hydrogen made from the millions of tons of waste coal producing acid mine drainage every day.

## Potential Green Hydrogen Production Volumes

Initial Site, (starting 2026): **1 ton per day**

2nd Site, Wilkes- Barre (starting 2027): **8 tons per day**

3rd Site, Western Pennsylvania (starting 2028/29): **37+ tons per day**



## Key Information

### Green Hydrogen Classification

**Production beginning in 2026 and ramping up exponentially in the following years.**

**All hydrogen comes from the electrolysis process which is powered by surplus renewable energy generated at our waste-to-energy power plants as well as from our syngas production.**

**100% ready to use industrially, commercially, or in auto and truck transportation.**

**Produced locally at waste coal sites distributable nationwide through existing or new hydrogen hubs.**

**Can easily be converted into ammonia for transportation and then converted back into pure hydrogen for consumption.**

**Green Tax Credits available.**