

# FUEL CELLS



**Produce electricity**  
without any combustion



**Only water and heat**  
as byproducts

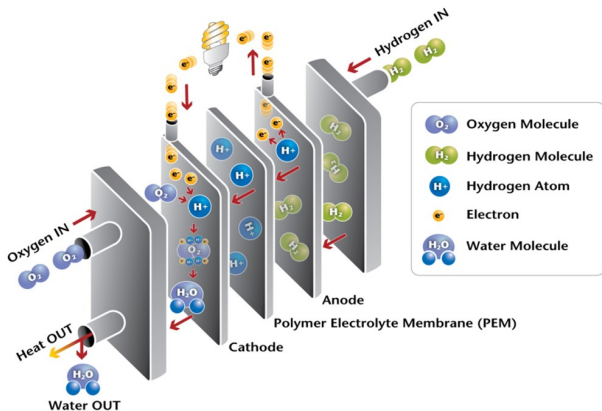


**More efficient** than  
traditional combustion



**Scale up easily** to meet  
many power needs

## Hydrogen in. Electricity, Heat and Water Out.



National **Hydrogen &**  
**Fuel Cell Day** | 10·08

Share the knowledge

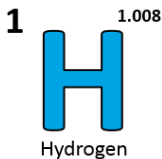
**#FuelCellsNow**

**#HydrogenNow**

Learn more: [energy.gov/eere/fuelcells](https://energy.gov/eere/fuelcells)

# HYDROGEN

- ✓ **Lightest of all gases**
- ✓ **Most abundant element** in universe
- ✓ **Can store energy** from many sources
- ✓ **Used in a fuel cell** to produce electricity
- ✓ **Currently produced** for industrial purposes
- ✓ **Not found by itself**—needs to be separated from other substances



## In the Periodic Table

- ✓ **Atomic Number:** 1
- ✓ **Atomic Weight:** 1.008
- ✓ **Element Name:** Hydrogen

## Energy Content

1 kilogram of hydrogen = 1 gallon of gasoline



## 10% of your weight is hydrogen

If you weigh 200 lbs., then about 20 lbs. of your body is hydrogen!



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