

A typical hydrogen refuelling station design includes 5 main components on site:

- Renewable Electricity Generation, Wind or solar
- An Electrolyser
- Compressors
- Storage Tanks
- Hydrogen Dispensers

The onsite hydrogen production and delivery design improves energy efficiency and reduces costs. To compliment the renewable energy sources some stations may have back up connection to the electrical grid or batteries.

Compressors are necessary as the hydrogen gas must be compressed for storage and subsequent fuelling of vehicles. The hydrogen can be dispensed direct to vehicles on-site or it can be distributed via trucks as mobile refuelling stations.

Some stations will also have an onsite fuel cell that can convert excess hydrogen produced back to electricity to the power the station or to charge electric vehicles.

