# HYDROGEN TERMS TO KNOW

**Clean Hydrogen** 

Hydrogen produced with a carbon intensity equal to or less than 2 kilograms of carbon dioxide-equivalent produced at the site of production per kilogram of hydrogen produced. **Compressed Hydrogen Gas (CHG)** Hydrogen gas compressed to a high pressure and stored at the

surrounding temperature.

### **Fuel cell**

A system (virtually identical to batteries) that electrochemically converts hydrogen and oxygen (sometimes natural gas and oxygen) to electricity, heat, and water. **Cryogenic or Liquid Hydrogen** Hydrogen that is liquefied at extremely low temperatures.

**Fuel cell stack** A connection of individual fuel cells to create more voltage

Renewable hydrogen production Hydrogen produced with: Electricity from a renewable energy source to create hydrogen gas from water or Renewable natural gas to produce hydrogen gas.



#### Electrolyzer

A hydrogen production method that separates water into hydrogen and oxygen atoms using electricity.

## Reformer

The device used to generate hydrogen from fuel for use in fuel cells

## "Zero-emission motor vehicle" is a motor vehicle that is propelled by:

- 1. An electric motor that draws electricity from a battery that has a capacity of not less than four kilowatt hours and is capable of being recharged from an external source of electricity; or
- 2. Power derived from one or more cells which convert chemical energy directly into electricity by combining oxygen with hydrogen fuel which is stored on board the vehicle in any form and may or may not require reformation prior to use.

Steam Reforming

**Pyrolysis** 

Technology that

converts biomass

into a liquid that can

be used as a biofuel

A method to produce hydrogen through reacting a hydrocarbon fuel with steam, it is commonly used for bulk generation.