

# POWER TO HYDROGEN

Emerging Technologies for The Renewable Energy Sector



Shared Prosperity Dignified Life



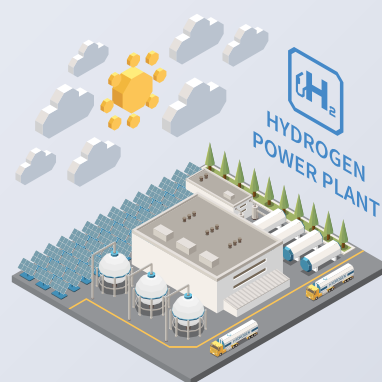
## What is power to Hydrogen?

Electrolysis, a method that employs electricity to divide water into hydrogen and oxygen, can be used to make hydrogen. When renewable energy is employed in this process, hydrogen becomes a complementary renewable energy carrier.



## The Role of power to hydrogen in The Power Sector

Power to Hydrogen can help regulate the variability in power supply from wind and solar photovoltaic (PV) technologies by providing grid balancing services and long-term storage. Power to Hydrogen can also enable the use of clean hydrogen produced from renewable energy sources as a feedstock in industrial processes, hence aiding in the decarbonization of other sectors.



## The end-use applications of hydrogen

### ELECTRICITY

