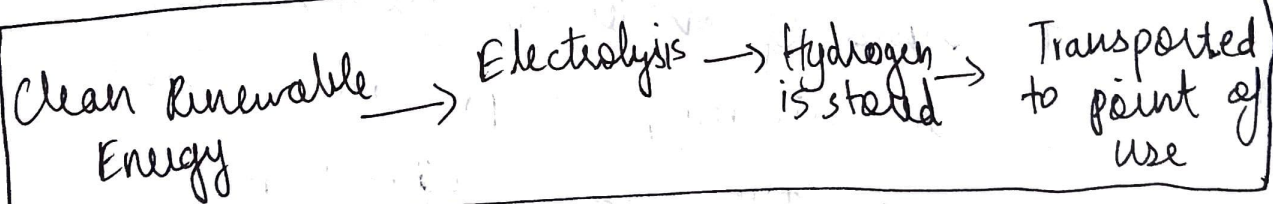


How does the green hydrogen act as clean alternative fuel and help in aiding the world decarbonisation goals? Explain.

Ans: Hydrogen is the most abundant element in the planet and it serves as a cleaner fuel alternative. According to the International Renewable Energy Agency (IRENA), hydrogen will make 12% of energy mix by 2050.

Green Hydrogen

Green Hydrogen is produced by electrolysis of water using renewable energy like wind, solar and has low carbon footprint.



How does Green Hydrogen help in decarbonisation goals?

→ Reduced energy bill: India imports over 85% of its crude oil and more than 50% of its gas. India spends ₹12 trillion annually for its energy needs.

With the adoption of green hydrogen, India can achieve its nationally determined contribution targets under Paris Agreement while deploying precious foreign reserves for domestic use.

→ Low carbon footprint - The byproducts of the production of hydrogen is water & water vapour. It is easily harvested by running current through water. The entire cycle is very low carbon and has almost zero environmental impacts.

→ It is a clean burning fuel and can decarbonise steel, chemicals and transportation sector.

→ In terms of mobility, green hydrogen can be used in railways, ships, trucks, buses etc. This will save the ecosystem from deteriorating rapidly.

Way Forward:

India is actively taking steps to limit the global warming and has taken massive steps wrt Renewable Energy. Green hydrogen could be the boon of India.