

Q.

Discuss the steps that are required to make India a global leader in green hydrogen production. (200 words).

Hydrogen generated entirely by renewable energy or from low-carbon power is called green hydrogen. It finds its uses in transportation, heating, Natural gas industry and Ammonia production.

India plans to produce 5 million tonne of green hydrogen by per annum by 2030. Govt is going to have a 'National Hydrogen Mission'.

Steps required to make India a global leader in green hydrogen production.

- Elimination of intra-state transmission charges

According to CEEW, the cost of green hydrogen production could drop by 17% to the waving of the central transmission

- Government banking of RE in the initial phase of the mission without any monetary implication.

- Awarding of higher renewable purchase obligation credit than the equivalent

consumed.

- Inter-state transmission charge should be extended for projects set up till 2030.

- PP (Public - Private) model projects should be encouraged

- Start-ups should be nurtured and FDI should be encouraged in this segment.

Conclusion:

The above steps would make green hydrogen production significantly competitive and could truly make India atmanirbhar in its energy supply.