

India's record low renewables tariff will power green hydrogen

Solar Tariff (INR) Trends

Tariff (Rs/kWh)

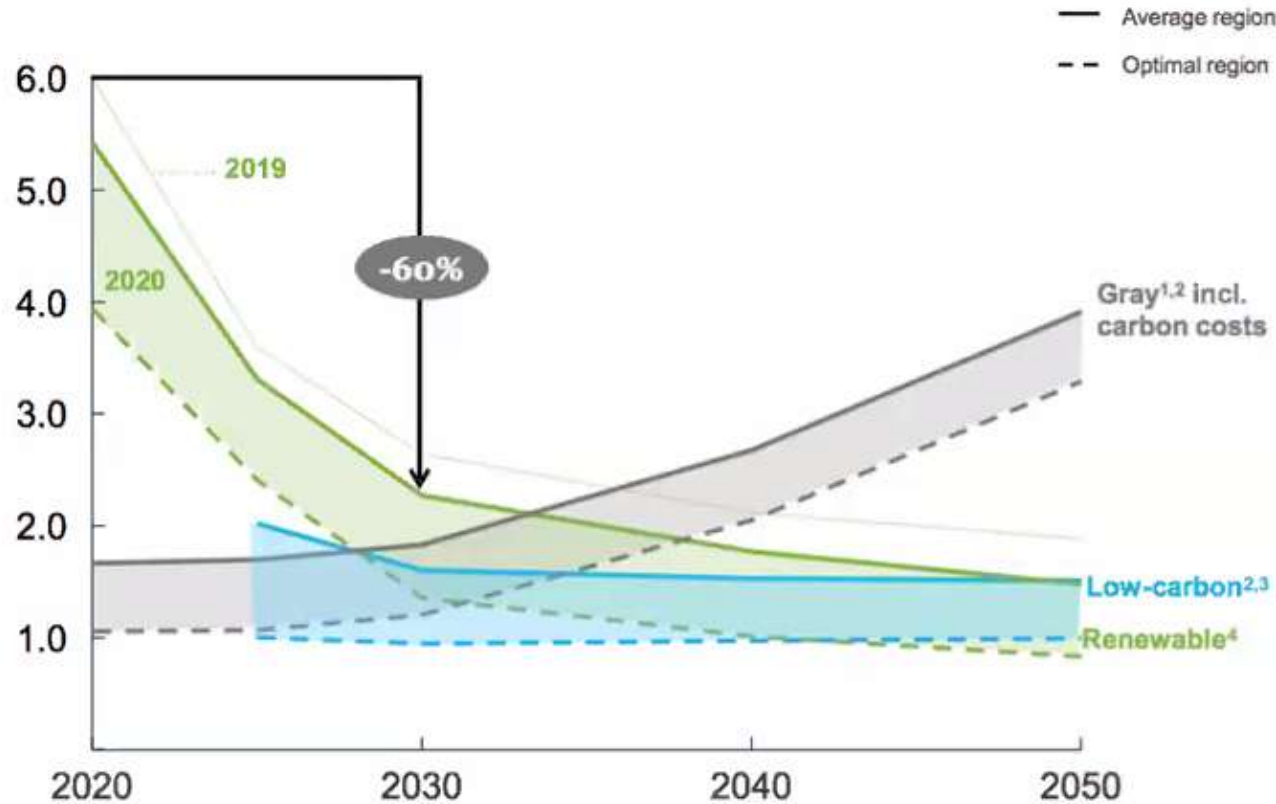
INR 1 = 1.4 \$Cent
 INR 1.99 = 2.7 \$Cent

Reverse Auction Started April 2013



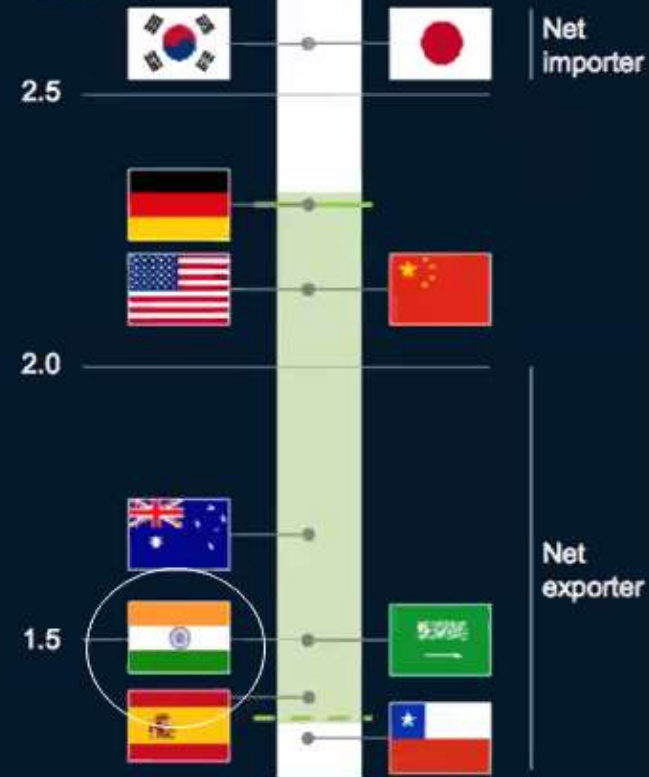
Indian Green H₂ @ \$1.5/Kg can disrupt global energy & chemicals industry

Production cost of hydrogen, USD / kg



1/ SMR without CCS 2/ Gas price of flat 2.6-6.8 USD/Mmbtu; based on 30 USD/ton CO₂ (2020), 50 USD/ton CO₂ (2030), 150 USD/ton CO₂ (2040) and 300 USD/ton CO₂ (2050) 3/ Assumes ATR with CCS and 98% CO₂ capture rate. Based on carbon transport and storage cost of 65 USD/ton CO₂ (2025), 17 USD/ton CO₂ (2030) and 14 USD/ton CO₂ (2050) 4/ Based on alkaline with size classes of 2 MW (2020), 20 MW (2025) and 80 MW (from 2030); based on LCOE of 25-73 USD/MWh (2020), 13-37 USD/MWh (2030) and 7-25 USD/MWh (2050) 5/ Analysis includes grid connection to shore for offshore windparks

2030 Renewable hydrogen cost USD/kg



2030

Net Exporter

Feedstock

Energy

