CLOSER TO ACHIEVING AFFORDABLE HYDROGEN

THE DEPARTMENT OF ENERGY'S GOAL:

A



) 1 kilogram

1 decade

INL RESEARCH BRINGS US CLOSER TO THIS GOAL by showing how hydrogen can be produced at \$2/kg using high temperature steam electrolysis and nuclear energy.*

* Based on assumptions, including producing electricity at \$25/MWh (2021 Dollars)



CRITICAL FACTORS IN MAKING HYDROGEN AFFORDABLE

Decrease the cost of 1 electricity 2 heat 3 hydrogen production facilities

- Nuclear power can contribute to ① and ② by providing low cost, steady electricity and heat.
- Hydrogen production using diverse energy sources can be an economically viable option to complement existing fossil fuel-based methods.



To learn more about INL's research on hydrogen, visit https://inl.gov/integrated-energy/hydrogen/



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