

# Solar power generation and hydrolysis to produce hydrogen

The use of solar energy to produce hydrogen can be conducted by two processes: water electrolysis using solar generated electricity and direct solar water splitting. ... 10,200 kWp or 10.2 megawatts of PV power will be needed ...

One solution is to produce hydrogen through the electrolysis--splitting with an electric current--of water and to use that hydrogen in a fuel cell to produce electricity during times of low power ...

Solar-driven water electrolysis has been considered to be a promising route to produce green hydrogen, because the conventional water electrolysis system is not completely renewable as it requires power from ...



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Web: <https://www.inmab.eu/contact-us/>

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

