

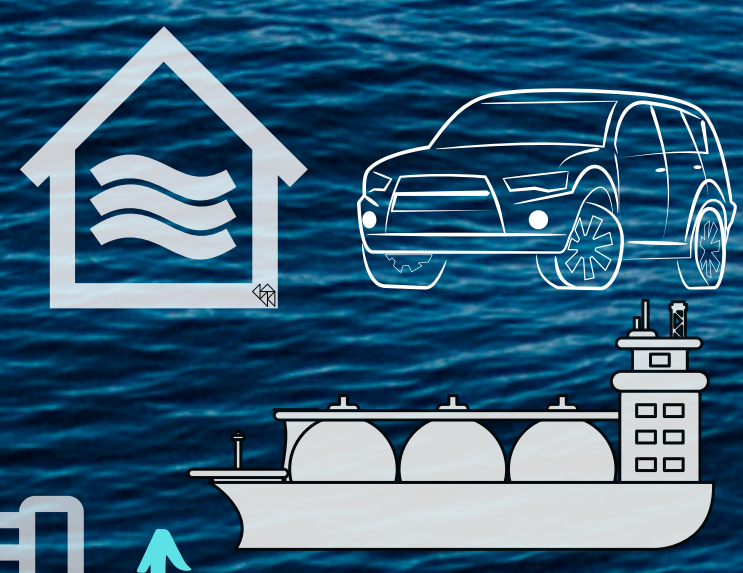
Green H₂ from Offshore Production

Hydrogen produced using renewable energy

Electrolysis to produce hydrogen from water 


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Hydrogen as an energy source has the potential to heat buildings and power vehicles



Produced hydrogen can be exported via ship or pipeline

Possibilities



Chemical storage of wind energy



Alternative fuel free of carbon emissions

Current State of the Tech

No concrete project yet, but several countries are investing in R&D for this technology:

- European Union wants to invest between 180 and 470 million euros by 2050 in renewable hydrogen production
- Dutch government is helping projects such as PosHYdon or H2opZee, large-scale electrolyzers connected to offshore wind power

Challenges

Increased pollution, including noise



Areas can be used for protection of vulnerable wild life

References

ABS (2022). Offshore Production of Green Hydrogen.
European Commission (2020). A hydrogen strategy for a climate neutral Europe



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What to Think about Green H₂ Offshore Production?

Green hydrogen production is a new promising technology for the future, as the demand of hydrogen is rapidly increasing. However, offshore hydrogen production conflicts with targets in SDG14, which must be considered before implementation