

# Project at a glance

Murchison Green Hydrogen is bringing the energy transition to the Mid West region of Western Australia.

The Project is developing an alternative form of clean energy, green hydrogen and its derivatives, to fight climate change and support global decarbonisation.



Up to 522 wind turbines



Up to 7,000 hectares of solar



Desalination plant



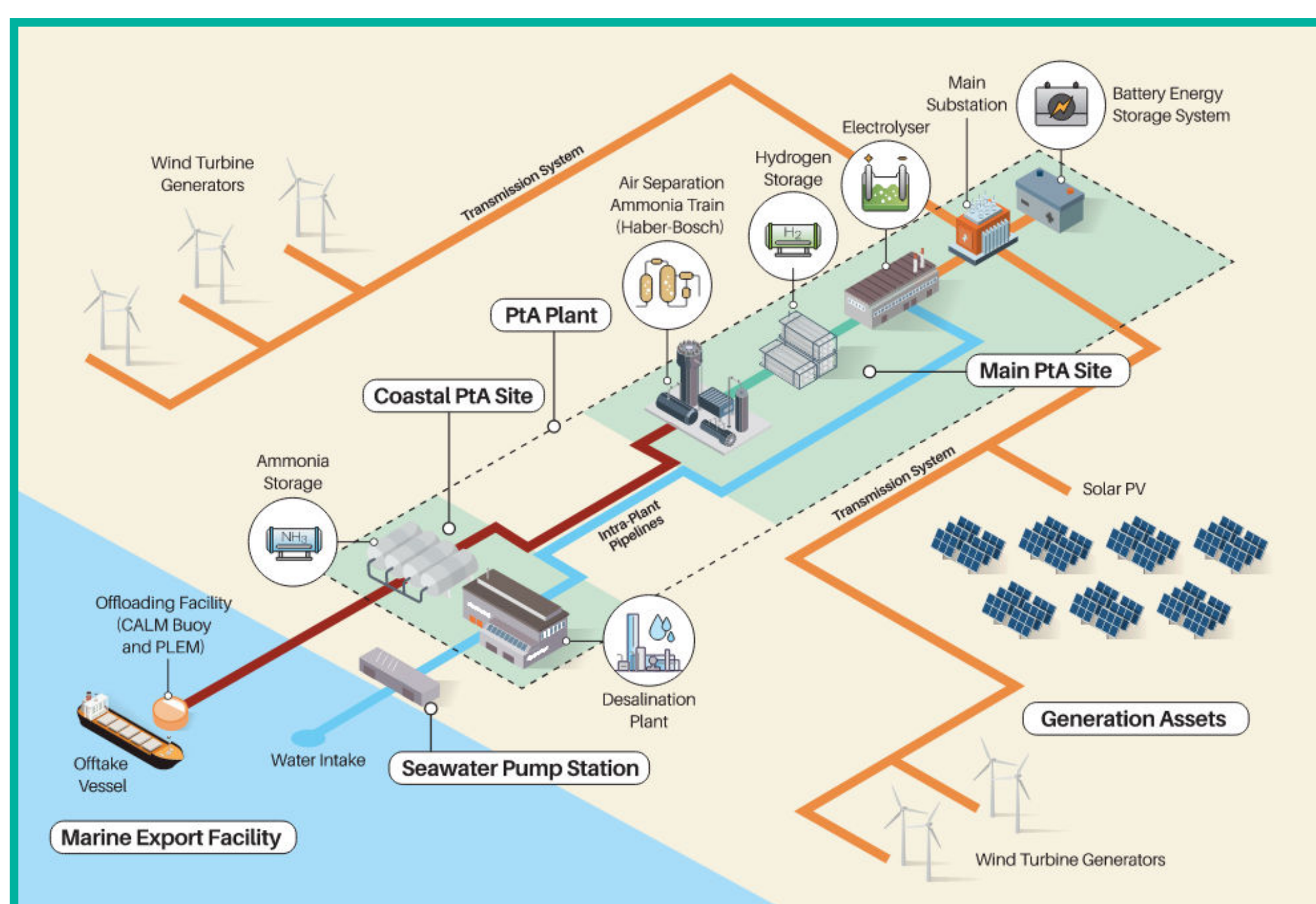
Electrolyser



Ammonia plant

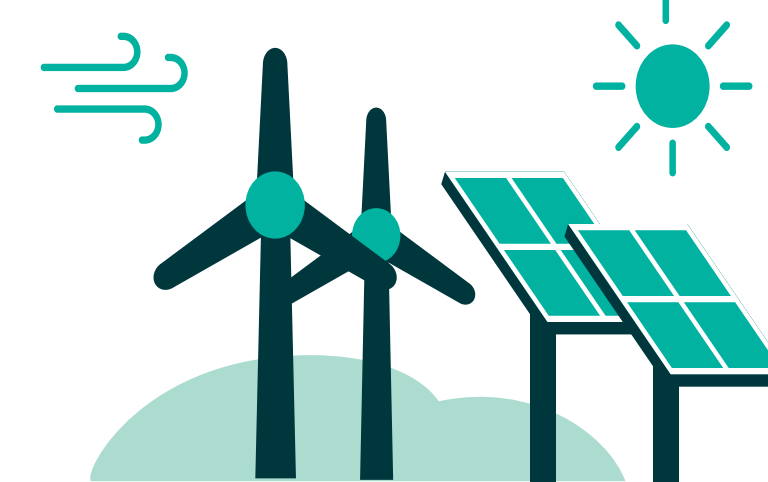


Marine export facility



## Clean energy generation

Wind and solar are used to generate green energy.

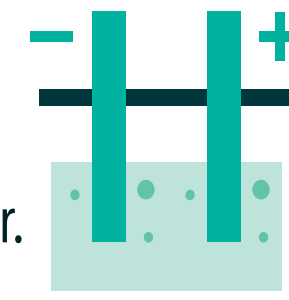


Battery storage

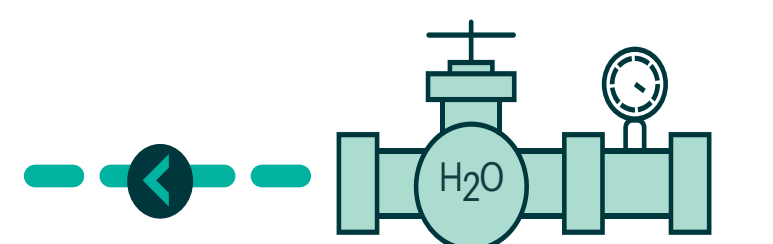


## Green hydrogen production

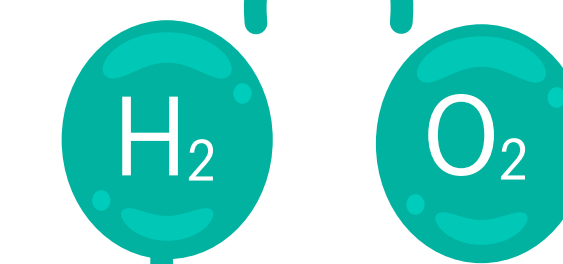
Green energy is fed into the electrolyser with the desalinated water. The electrolyser splits water (H<sub>2</sub>O) molecules into hydrogen (H<sub>2</sub>) and oxygen (O).



## Water desalination



Sea water is pumped into the desalination plant to remove the salt.



Oxygen is released into the atmosphere.

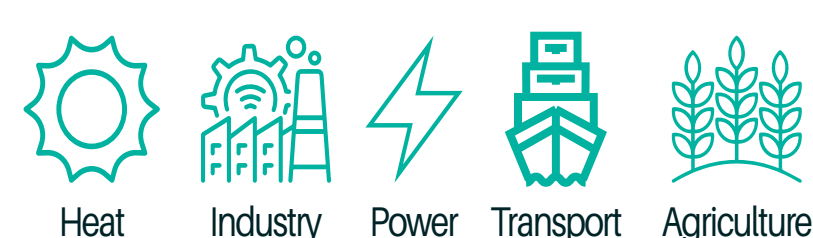
## Hydrogen storage

Excess green hydrogen is stored on site to reduce variations in hydrogen supply to the ammonia production.



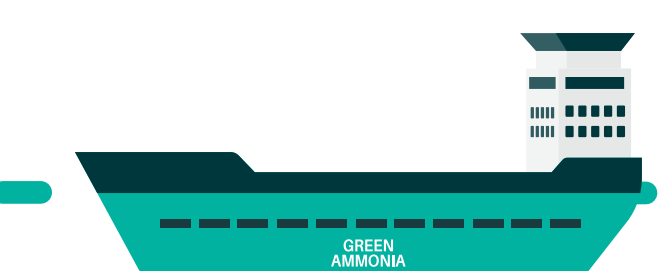
## Ammonia production

Nitrogen (N<sub>2</sub>) from the atmosphere is added to green hydrogen (H<sub>2</sub>) to create liquid ammonia (NH<sub>3</sub>).



## Future uses

Ammonia can be used directly as a fuel or converted back into green hydrogen fuel for a range of uses.



## Ammonia shipping for export

Liquid ammonia is pumped to the ship ready for transportation.