

AmpHytrite 10 MW offshore green hydrogen demonstrator



The objective of AmpHytrite is to contribute to the de-risking of future GW-scale centralized, offshore, off-grid green hydrogen production through the development, design, commissioning and operation of a 10 MW demonstrator unit on the Tweede Maasvlakte in Rotterdam. AmpHytrite will convert all electricity production of the already operational GE Haliade X into green hydrogen and generate approximately 770 tons of green hydrogen per year.

AmpHytrite highlights:

- Initiated by Sif, Pondera, GE & KCI
- Offshore, off-grid, Centralized, Scalable
- PEM electrolyzer & seawater desalination
- Connected directly to GE Haliade X offshore wind turbine and fully capable of running in offgrid mode
- **COD Q4 2025**