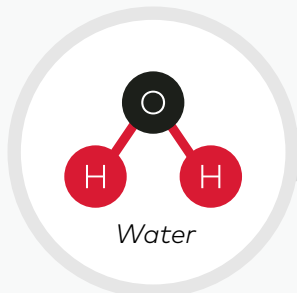


renewable methane creation process

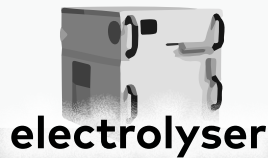
1.

Water is captured from air.



2.

Electrolyser powered by solar energy splits water into H₂ and O₂.

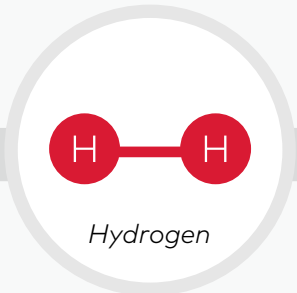
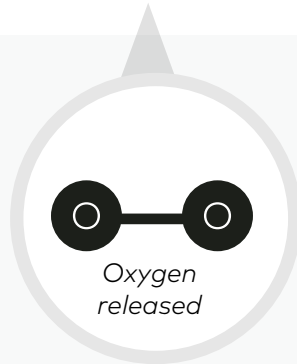


electrolyser

splits water into H₂ and O₂

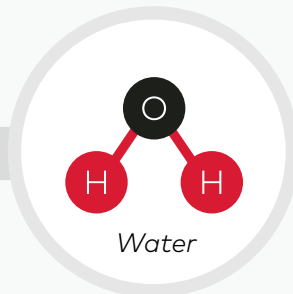
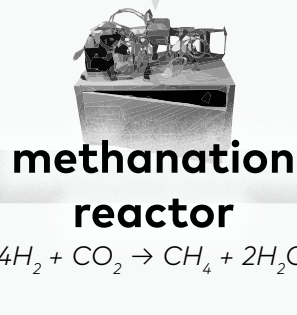
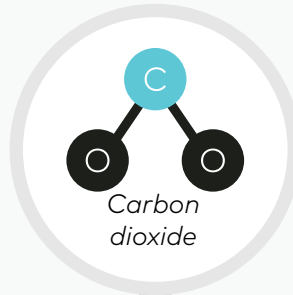
3.

Oxygen is released, leaving hydrogen.



4.

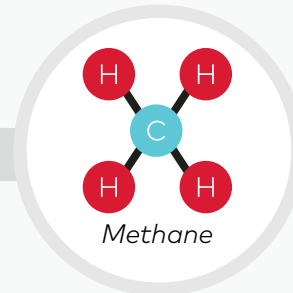
The Methanation reactor combines the Hydrogen with Carbon Dioxide extracted from the air.



Water produced in the methanation reaction is recycled for use in electrolyser

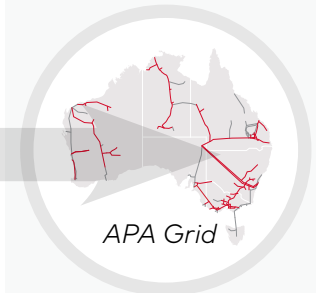
5.

Renewable methane produced.



6.

The renewable methane can be transported and stored in the APA Grid.



energy. connected.