

H₂Upgrade

Transforming no-value wastes into high purity hydrogen and food-grade carbon dioxide

Technology

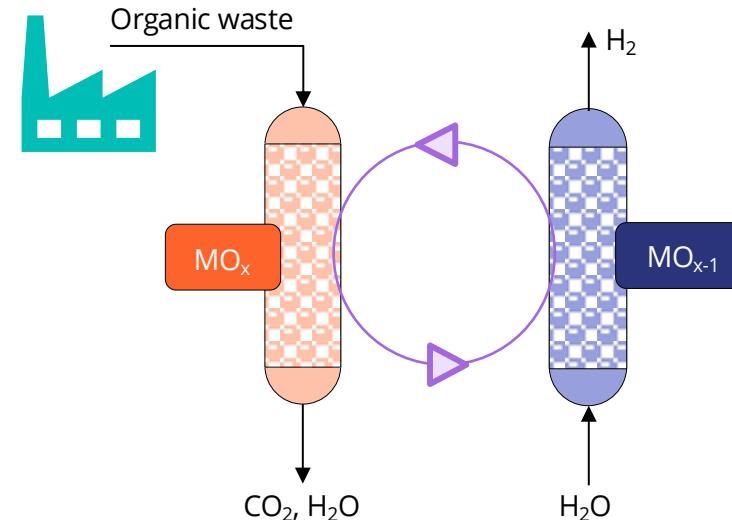
Low-cost transition metal oxides catalyse the conversion of hydrocarbon-rich waste streams into high purity H₂ and CO₂.

Benefits

- Brings waste conversion capabilities in-house, reducing / eliminating hazardous waste stream collection.
- Compact (containerised) design for simple and rapid integration into existing industrial processes.
- Single unit capacity of 10-40 m³/hour, suitable for small-to-medium industrial users.
- Can be scaled linearly as a modular installation.
- Converts both gaseous and liquid waste streams and can be coupled to pyrolysis systems / gasifiers.

Commercial applications

- Potential to generate revenues from waste, for example, from food and beverage processing, paints, and solvent-based chemical processes.
- Potential for waste management companies to consolidate and treat waste hydrocarbons from multiple sources.



H2Upgrade combines established, low risk chemical loop cycling with novel reactor bed design

Opportunity

We are keen to speak to co-development partners and potential end-users.

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