

H₂Upgrade

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

Technology

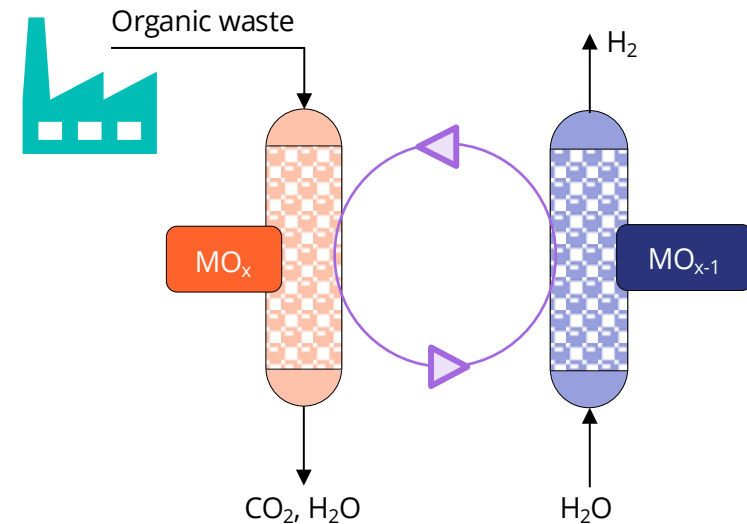
Low-cost transition metal oxides catalyse the conversion of hydrocarbon-rich waste streams into high purity H₂ and CO₂.

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.

For further information please contact:

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