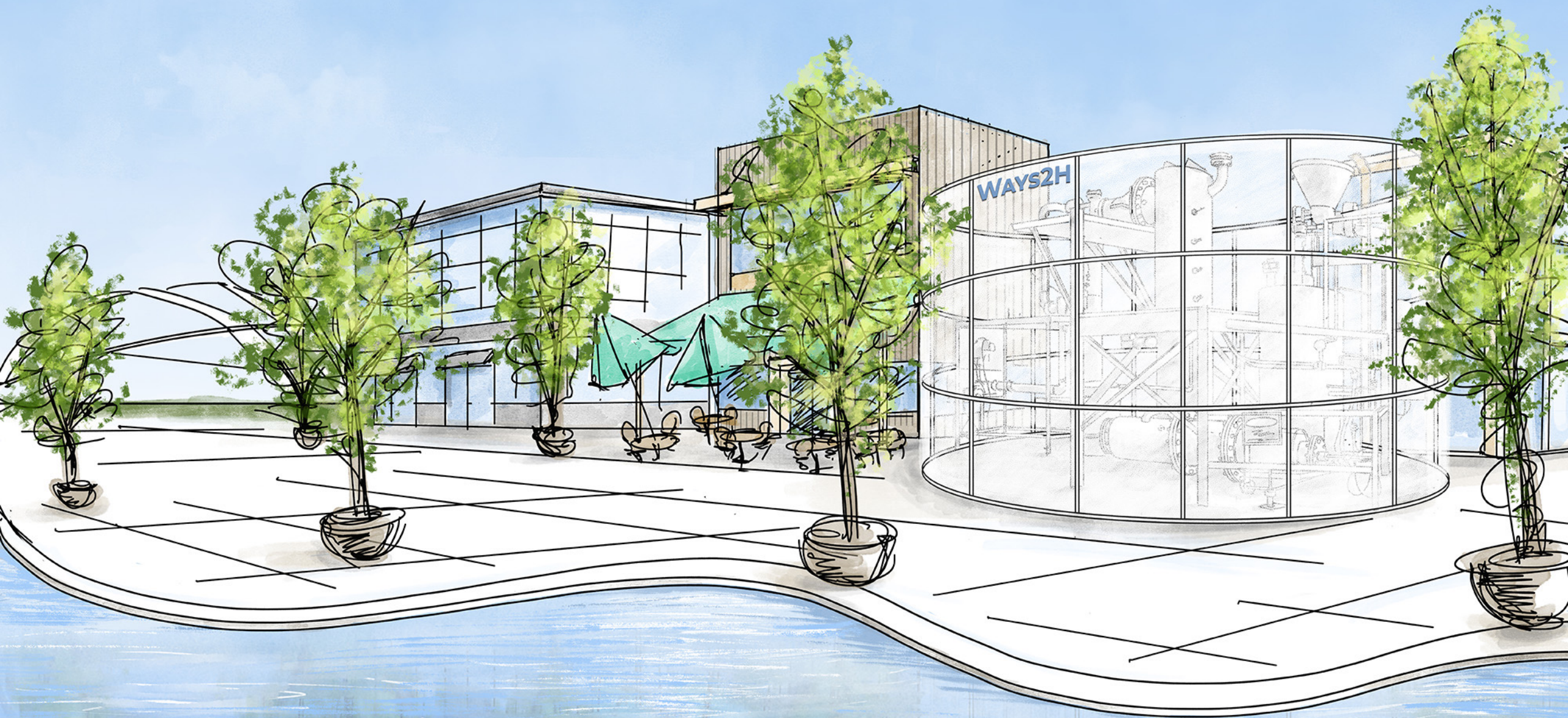




CONVERTING SOLID ORGANIC WASTE INTO CARBON-NEGATIVE HYDROGEN



THE WASTE REFHYNERY





WAYS2H

Headquartered in Long Beach, California. Offers solutions globally.

Patented thermochemical process converts waste biomass and plastics into carbon-negative hydrogen.

Ways2H engineers, builds and sell systems to operators who process waste and sell hydrogen or power

CONVERTING SOLID ORGANIC WASTE INTO CARBON-NEGATIVE HYDROGEN

IMPROVING WASTE MANAGEMENT, PRODUCING CLEAN HYDROGEN

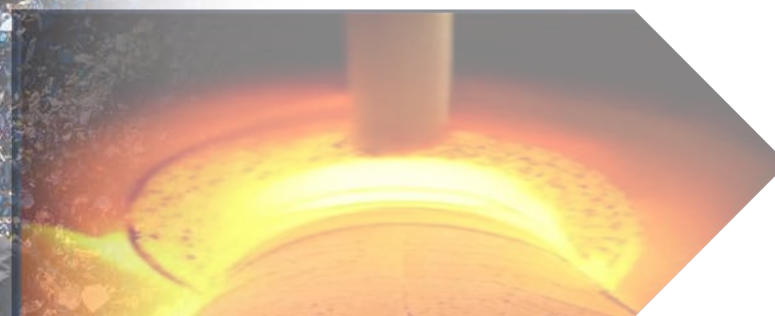
- Ever-increasing waste problems
 - Landfills and incinerators a questionable response
 - Recycling not perfect
- Renewable hydrogen that does not require renewable electricity
 - Can be used as a fuel
 - ... or for on-site power generation
- Small size distributed systems improve waste logistics and provide a clean decentralized conversion of waste to energy.

THE WAYS2H REFHYNERY:
A DISTRIBUTED APPROACH TO VARIOUS
ORGANIC WASTE STREAMS MANAGEMENT
AND HYDROGEN PRODUCTION

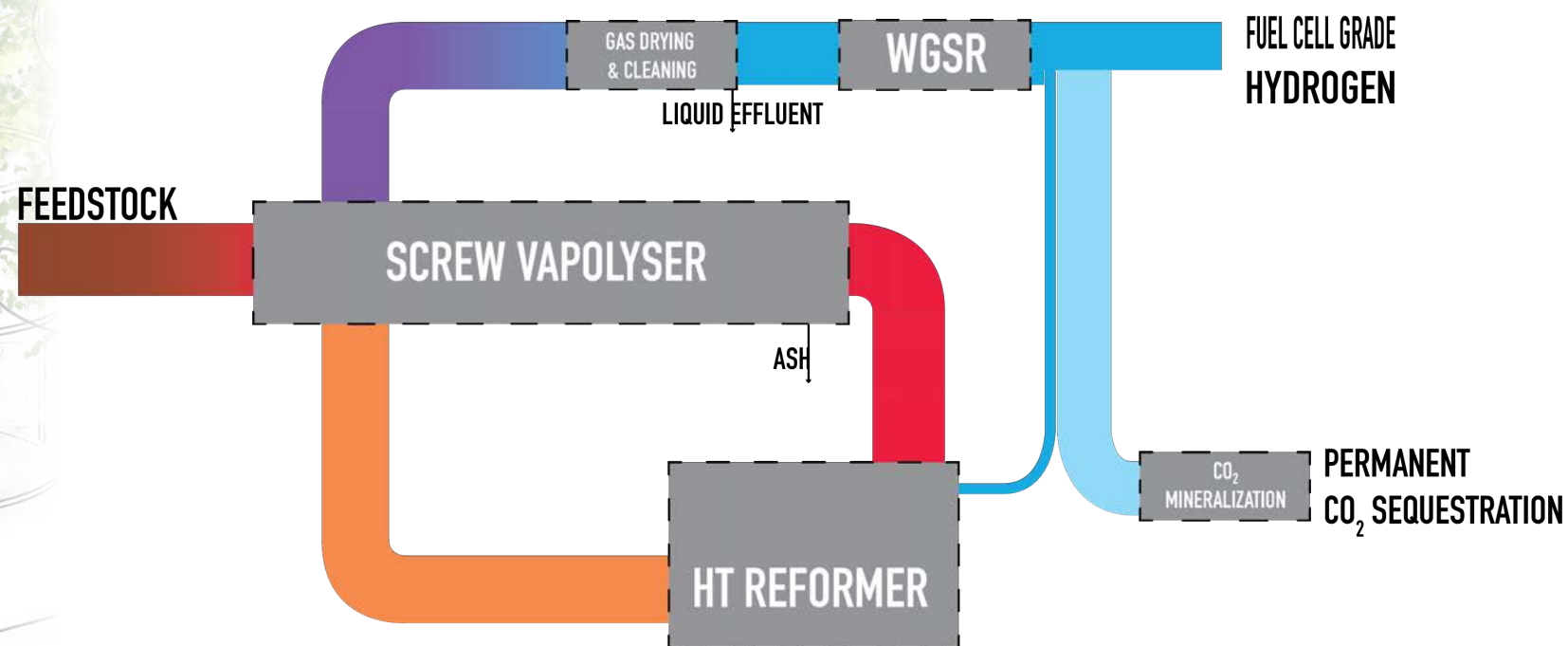
- **Municipal Solid Waste**

- But also...

- **Biomass**
 - **Medical Waste**
 - **Food Waste**
 - **Plastics**
 - **Wood**
 - **Paper**



PROCESS



Proprietary breakthrough design high temperature reforming components.

- Low emissions
- Enhanced H₂ production
- Self-sustainable

DESIGN BASIS

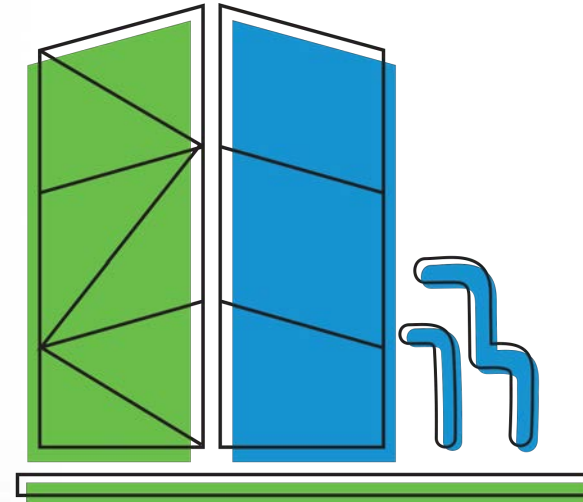
- Industry-proven, commercially available components
- Proprietary thermal energy management: highest H₂ yield on the market.
- Simple and integrated design
- Embedded Carbon Capture & Mineralization

Organic MSW (metals and inerts removed)

30 t/day waste input (24 t/day dry basis) :

- 2.5 to 3.5 tons Hydrogen output
- Over 20 kg CO₂e **sequestered** per kg H₂ produced

THE WASTE REFHYNERY



Fuel Cell Vehicle

500 full tanks served per day
250,000 miles driven



OR

Stationary Fuel Cell

1.6 MW power, or 38 MWh / day energy



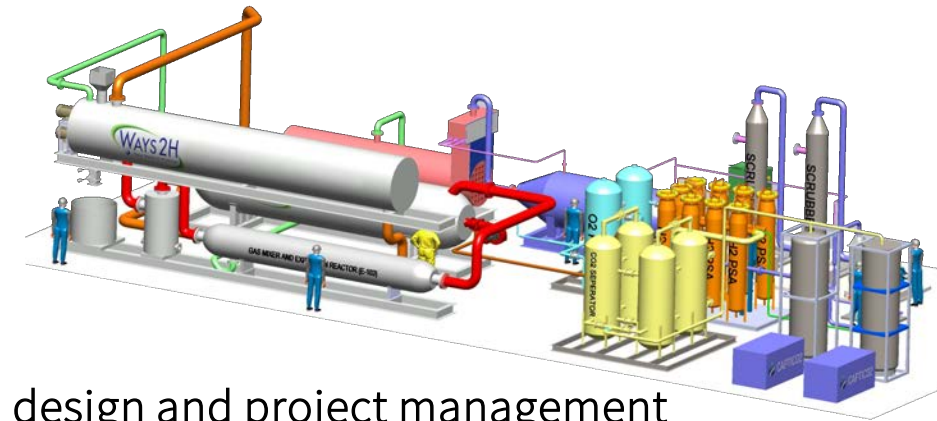
AND

57 tons/day Sequestered & Avoided CO₂



Option to place additional text in this position

ENGINEERING AND CONSTRUCTION



- Development, design and project management
 - Internal expertise
- Detailed and construction engineering : **Tecnicas Reunidas**
 - Strong global presence
 - Recognized expertise in gasification, hydrogen production, as well as other related processes
- Manufacturing and assembly
 - Joint supervision by Ways2H and TR
 - Priority to local firms

RECOGNITION



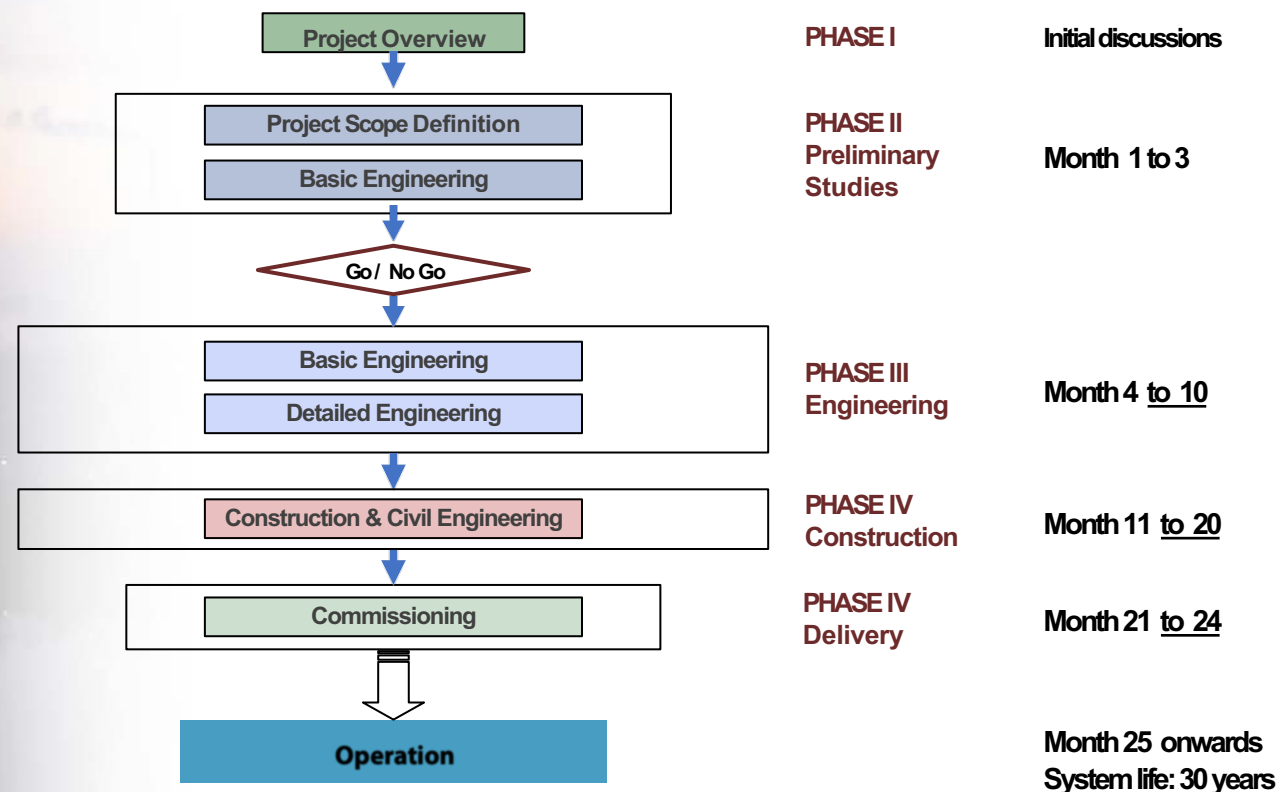
APPLICATIONS

- Predictable, 24/7 hydrogen-based power.
- Renewable, carbon-negative hydrogen fuel
- Beneficial on-site processing of waste: circular economy solutions

Option to place additional text in this position

EXECUTION

- Full support throughout all the project phases, from concept until operation.
 - Feasibility Studies
 - Engineering
 - Procurement, Construction and Assembly
 - Commissioning
- Post-delivery maintenance and remote operation





THE WASTE REF^HYNERY

For additional information
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