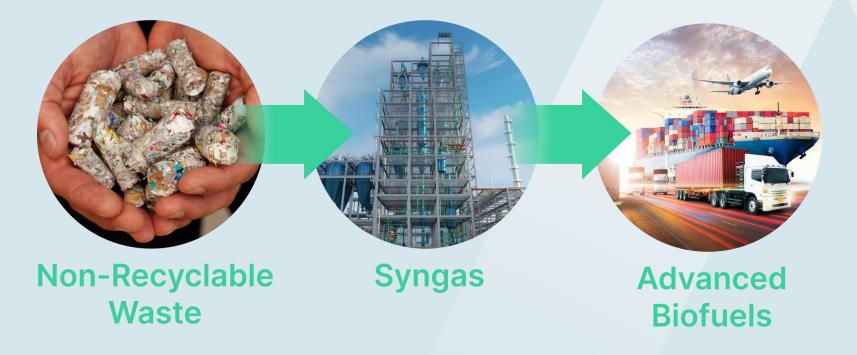
# GIDARA® ENERGY

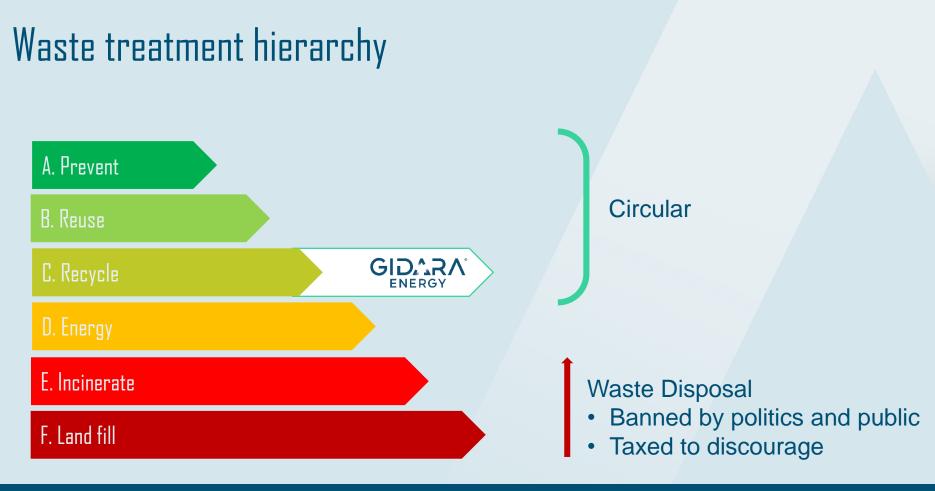
## **Energy Transition and Circularity: Waste to Biofuels** TiAM January 25, 2023

Raf Stout, COO GIDARA ENERGY

## What we do









## Flexibility to adapt to fast-changing environment



### Technology proven and applied for more than 10 years and with mixed feedstock





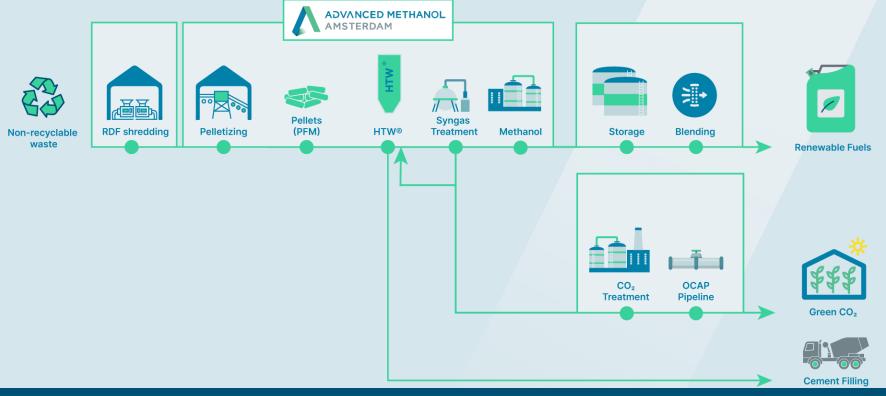
Key reference plant

2020 - current

Todav

for biofuels

#### Flagship Facility "Advanced Methanol Amsterdam (AMA)" HTW®-to-BioMethanol Plant: Process Flow Diagram





# Twin facilities

#### Amsterdam 2025

### ADVANCED METHANOL

Rotterdam 2026

## Circularity in Design, Operations and Maintenance

- Replicable business model
  - Identical ISBL units
  - Capitalize on existing utilities in brownfield locations
- Synergies for Operations and Maintenance across sites
  - Training and exchange of personnel
  - Standardize Operations and Maintenance procedures, learning
  - Common sourcing, spare parts
- Circular business model
  - Bio-methanol fit for different markets evolutions 2025 2050+
  - Availability of Green Utilities improve GHG savings
  - Clean Syngas can be converted into new end products



# General trends in energy transition

- Modular design
  - Design one, build many, (re)use standard components
- Portfolio management
  - Standardization, Sharing, Partnerships
- Re-purposing / share Brownfield locations
  - Advantaged access to utilities, CCU/CCS, supply/offtake, logistics
- Manage non-continuous operation
  - Flexible maintenance strategy adapted to variability
- Increasing electrification
  - Increasing need for electrical expertise



### We make sure our waste isn't wasted

gidara-energy.com advancedmethanol.com





Nootdorp Office Hofweg 33 2631 XD, Nootdorp



Schiphol Office Evert van de Beekstraat 1 1118 CN, Schiphol