

## BIOGENIC WASTE TO RENEWABLE H2



WTEnergy Advanced Solutions

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Type of Company: SME

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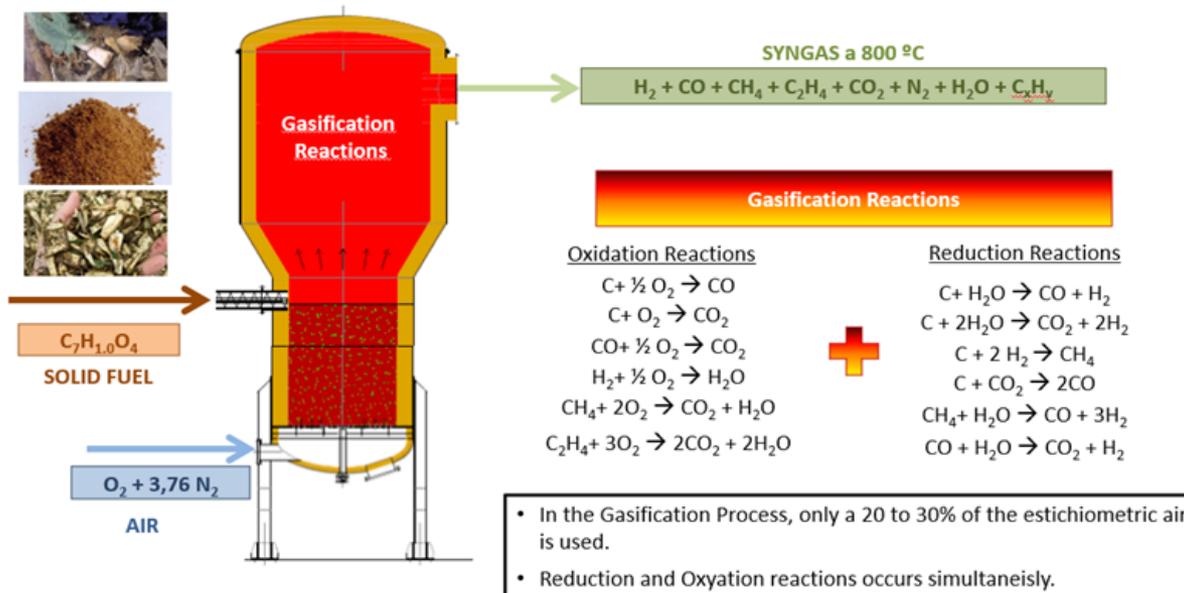
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# 1. WtEnergy SYNGAS to H2 technology

**WtEnergy** Advanced Solutions , is a Technological company for implementing Advanced Thermochemical Conversion Technologies to Energy **and clean H2** from Biomass and Waste Fuels\*.

**WtEnergy** proprietary **Cleantech** reduces the **Greenhouse Gases Emissions**, guarantees the **safe management of wastes**, allows the recovery of valuable materials, and **generate large economic savings for the companies.**

## Bubbling Fluidized Bed Gasifier



## Syngas Composition (%vol)

<i>Carbon monoxide</i>	<b>13-17%</b>
<i>Hydrogen (H2)</i>	<b>10-14%</b>
<i>Methane (CH4)</i>	<b>3-5%</b>
<i>Ethylene (C2H4)</i>	<b>1-2%</b>
<i>Ethane (C2H6)</i>	<b>&lt;0,5%</b>
<i>Propane (C2H8)</i>	<b>&lt;0,5%</b>
<i>Carbon dioxide (CO2)</i>	<b>15-17%</b>
<i>Nitrogen (N2)</i>	<b>45-50%</b>

## 2. Topics of interest in call 2026

Topic	Experience and Contribution
<i>HORIZON-JU-CLEANH2-2026-01-05: Sustainable hydrogen production from renewable gases and biogenic waste sources through innovative modular reactor design, process intensification and integration</i>	* Experience: syngas generation and conditioning. Increase H2 yield. Recovery heat integration