



PLAGAZI AB (publ) – GREEN HYDROGEN FROM WASTE

MARCH 2021

PLAGAZI[®]
TURNING WASTE INTO HYDROGEN

ABOUT PLAGAZI®

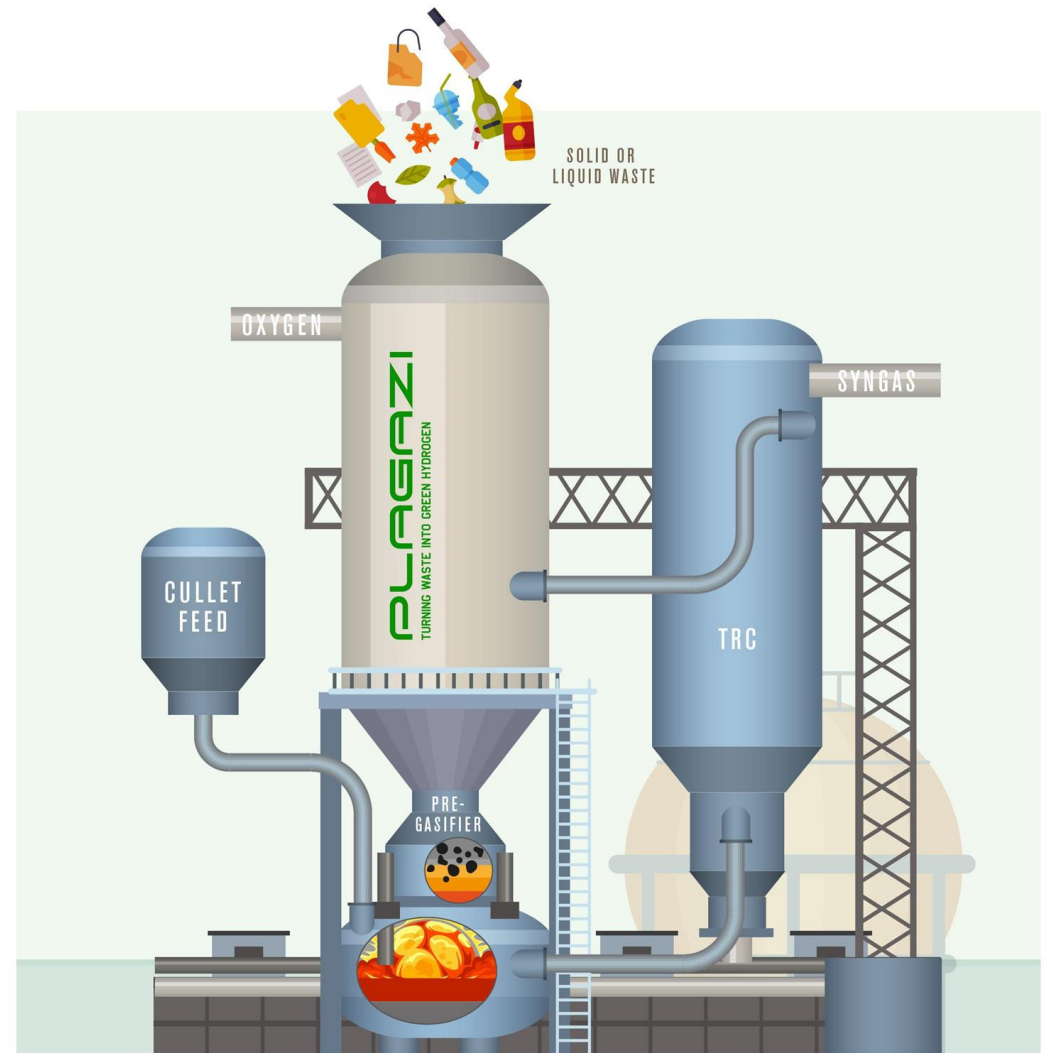
- ❑ Plagazi AB (publ) was founded in 2008 and is headquartered in Båstad, Sweden, with subsidiaries in Germany and Spain.
- ❑ The company owns the patented PLAGAZI® process, which converts any type of waste into pure green hydrogen via plasma gasification.
- ❑ The company is a spinoff from, a management team has a combined 100+ years of experience within the gas and renewable energy industries.
- ❑ Plagazi's **business model is to design, develop and produce plasma gasification plants**. Providing its customers with a turn-key plant solution, including feedstock supply, operational support and hydrogen revenue sources.
- ❑ The patented PLAGAZI® process' proof of concept exist in Richland / Washington and Arlington / Oregon with our strategic partner

INENTEC®

PLAGAZI®











GREEN HYDROGEN FROM WASTE

- **Pure green hydrogen** production from any type of waste via plasma gasification
- **Fully enclosed process:** CO₂ is captured in a Carbon Capture System (CCS).
- **Energy efficient process:** 70% of the energy need is recycled internally.
- **Production cost:** 25% of electrolysis from water.
- **Unit Dimensions:** 40 000 MTpy waste to 6000 ton/a green hydrogen.
- **Financial Dimensions:**
 - Investment: EUR 70M.
 - Breakeven: 5-6 years.
 - ROI 15-years: EUR 70M / 100%

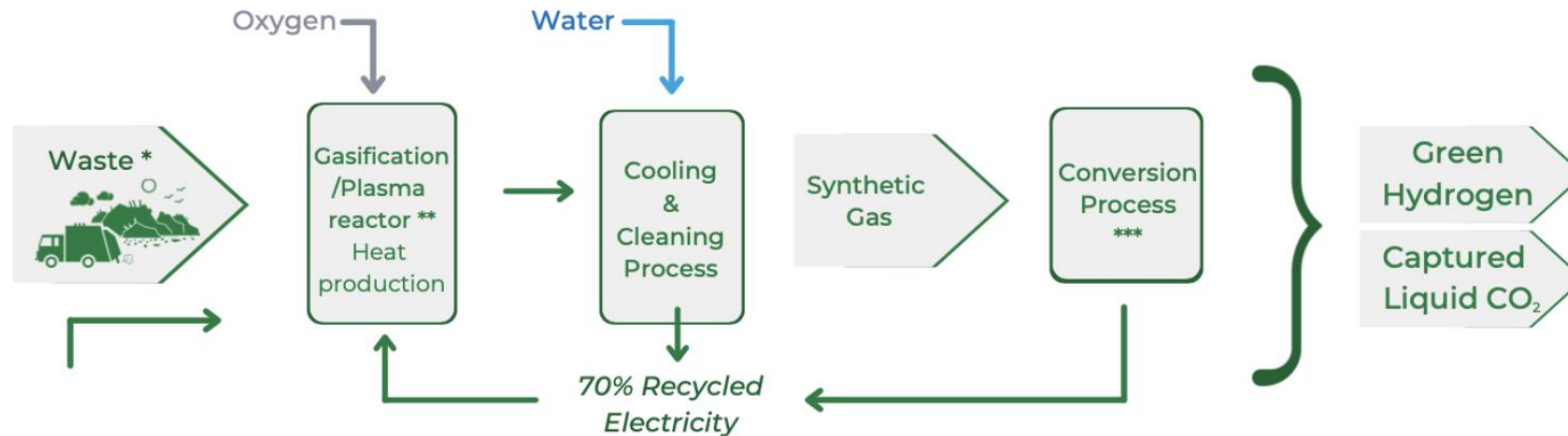


GREEN HYDROGEN PRODUCTION:

PREDOMINATELY PRODUCED VIA ELECTROLYSIS – **BUT WE CAN DO IT BETTER:**

	Product	Cost	Emission	
Steam Reforming of Oil	 Grey H ₂	 Competitive	 CO ₂ Positive	<ul style="list-style-type: none"> • Grey H₂ production • CO₂ positive - contributing to Greenhouse Gas emissions
Water Electrolysis	 Green H ₂	 Expensive	 CO ₂ Neutral	<ul style="list-style-type: none"> • Cost: €6-8/kg H₂ • Requires renewable energy input to be green • Highly energy intensive • Uses water as input
	 Green H ₂	 Competitive	 CO ₂ Negative	<ul style="list-style-type: none"> • Cost: €0.5-3 /kg H₂ • Negative Greenhouse Gas Emissions • Nonhazardous rest products • 70% of energy used recycled. • Uses any waste as input.

THE PLAGAZI PROCESS



* Any type of waste: Auto Shredder Residue, Car Tires, Plastic, Household-, Industrial-, Hazardous- or Medical Waste.

** Exposed to Temperatures > 3000°C in a Plasma Reactor, where the waste is broken down to atomic level.

*** The Product is then rebuilt to form *Green Hydrogen and CO₂*, which the latter is captured directly.

PATENTED TECHNOLOGY & PROOF OF CONCEPT

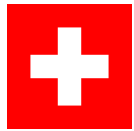


Plant near Arlington, U.S. | Running since 2011 |
Producing hydrogen | Live with hazardous waste as input in September 2020

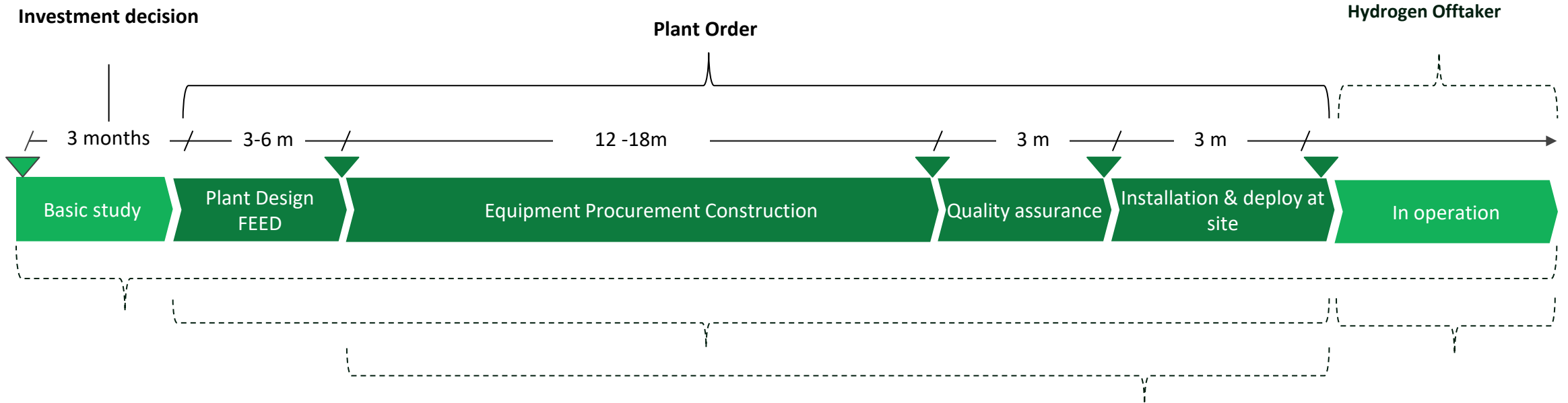
PLAGAZI IN EUROPE



DILLINGER 



PROCESS & PARTNERS



- Holistic technical design and engineering
- **Guaranteing the technology**
- Will partner with Plagazi to be responsible for operational plants

- Proof of concept
- **Key supplier: PEM Gasifier**
- Key Partner from study up to operations
- Partnership agreement in place

- **Environmental aspect (incl. permits)**
- Waste mgmt process
- 2nd opinion technology

- **Project Financing**
- Able to finance majority of project investments after FEED stage.

Audi
Northern Lights Project

- **Captured CO² offtakers**
- NLP: LOI in place



Any Questions?



PLAGAZI®

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