



SMARTENERGY

Sizando Project Green H2 production

FLOENE "Indústria de Futuro"

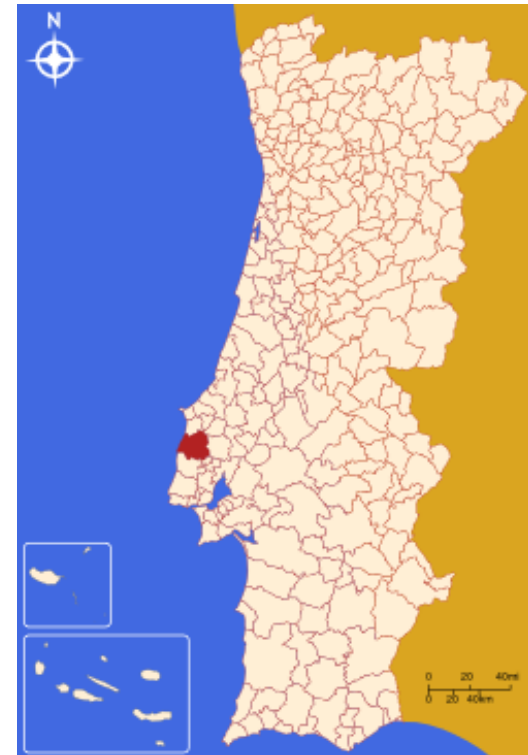
Torres Vedras Portugal - 02. June 2023

The concept, and the steps already taken

The concept

Develop a project for the **production of green hydrogen**, by electrolysis of water, using only energy from renewable sources, **involving the most relevant entities of the municipality**, in order to dynamise a local cluster that contributes to the **decarbonisation of the economic activities of Torres Vedras**.

The territory of Torres Vedras



The concept, and the steps already taken

Relevant milestones

2021	January	First contacts
	March	Smartenergy joined the Torres Vedras Living lab Green Hydrogen
	April	Preparatory meetings with the municipal team and some companies located in the municipality
	May	Support to the Torres Vedras going Carbon Neutral program (European City Facility)
	June	Meetings with some companies located in the municipality

2022	13 April	Project part of 'ATE – Alliance for Energy Transition' Mobilizing Agenda (PRR); Transversal Axe, TA06 – Gas Networks Towards Zero Carbon Emissions ; Work Package, WP10 – Hydrogen production, distribution and application in mobility and industrial solutions Application submitted. Collaboration with ISQ in the requirements and testing of DST-H2 System (decision support system to hydrogen injection into the gas grid) and in the study of the reconversion of the H2/NG blend distribution infrastructures and kiln, in a ceramic industry – Cerâmica Torreense.
	17 June	'ATE – Alliance for Energy Transition' Mobilizing Agenda (PRR) approved
	19 October	Registration as gas producer at DGEG

2023	Tbd	Contract to be signed with PRR – Plano de Recuperação e Resiliência
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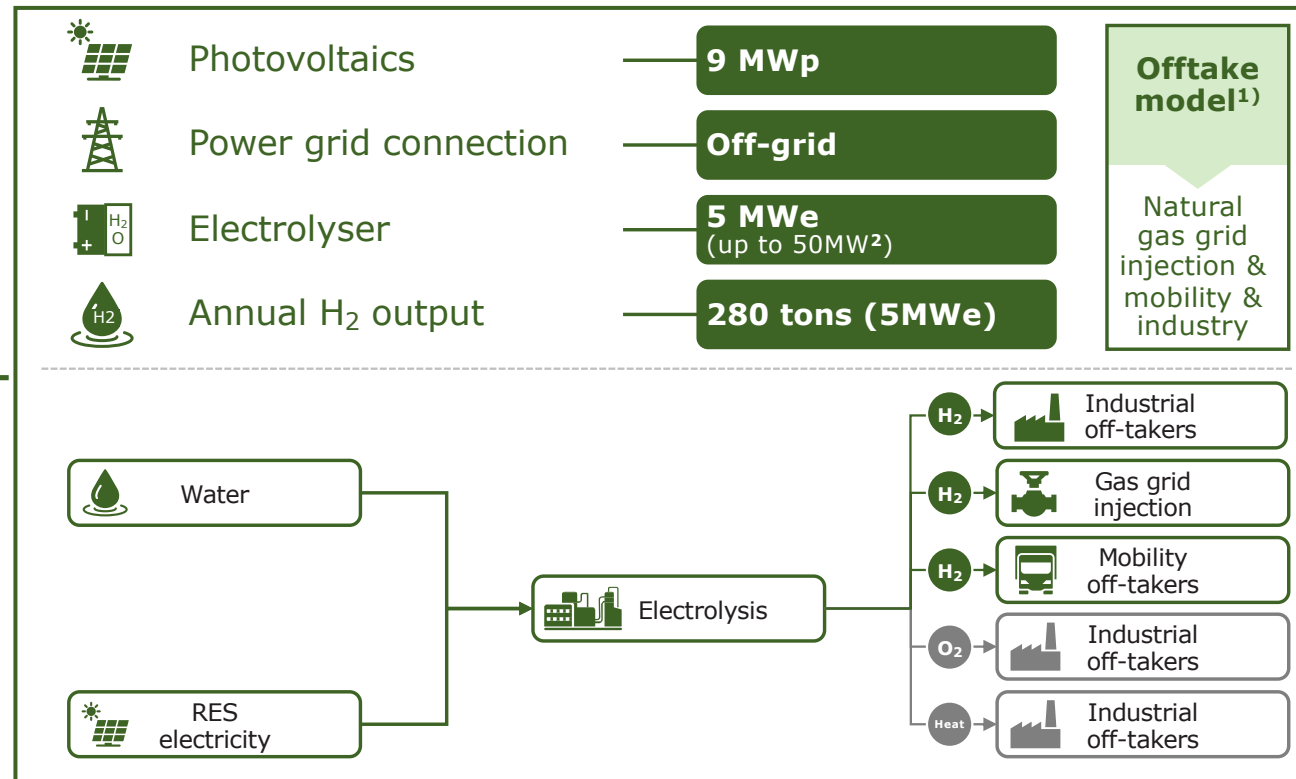


Project Info & Assumptions

Project Setup



Current Project Setup




1) Project initially designed for offtake via nat. gas grid, mobility & ind.; other offtake models conceivable if specific opportunities arise.
 2) Limit of 50MWe established by current local NG consumption records.



Project Info & Assumptions

Timeline and Milestones ¹⁾



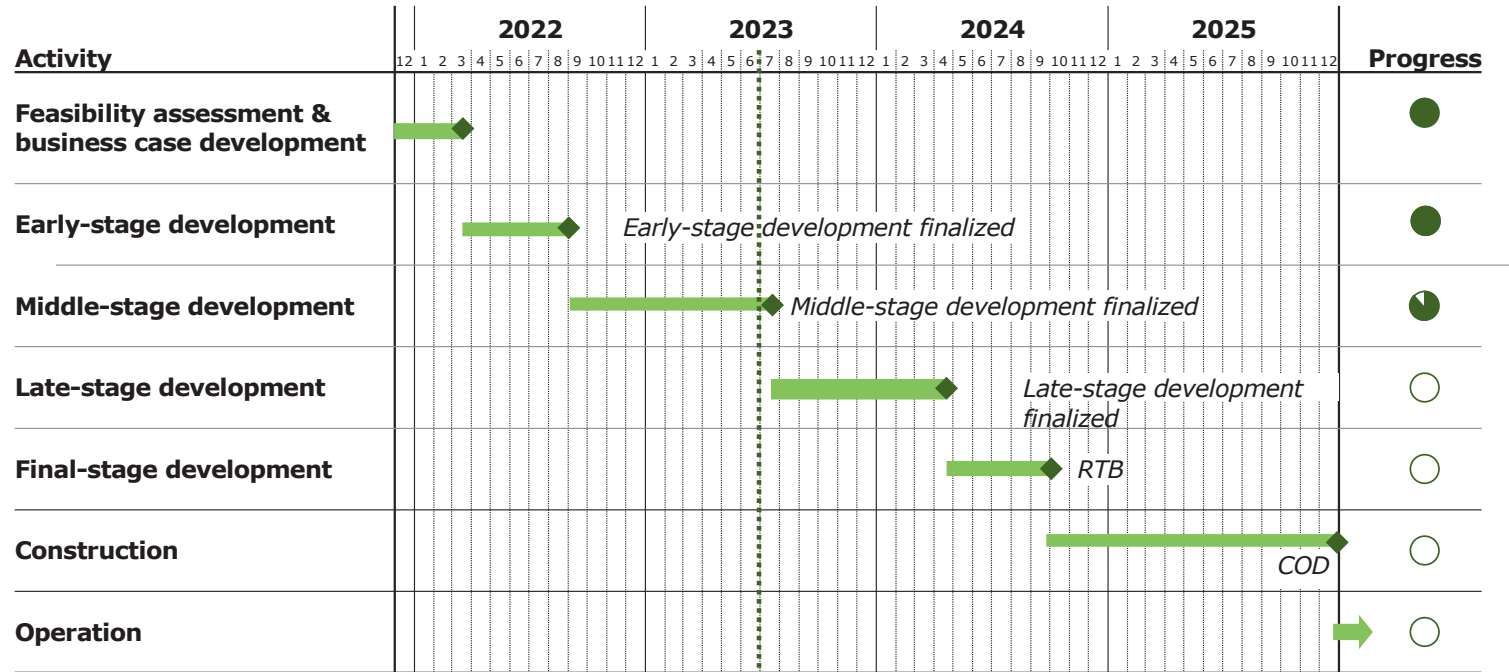
Achieved milestones 

A. Feasibility assessment

- ✓ Land scouted and secured
- ✓ Land Use Regime assessed (IGT)
- ✓ Preliminary Business Case study
- ✓ Preliminary technical study conducted

B. Early-stage development

- ✓ Feasibility assessment concluded
- ✓ SPV allocated
- ✓ Land agreement signed
- ✓ Conceptual design finalized
- ✓ Location statement received
- E-Portal registration handed in
- ✓ Registration as gas producer obtained



1) Project Timeline: subjected to internal Investment Decisions

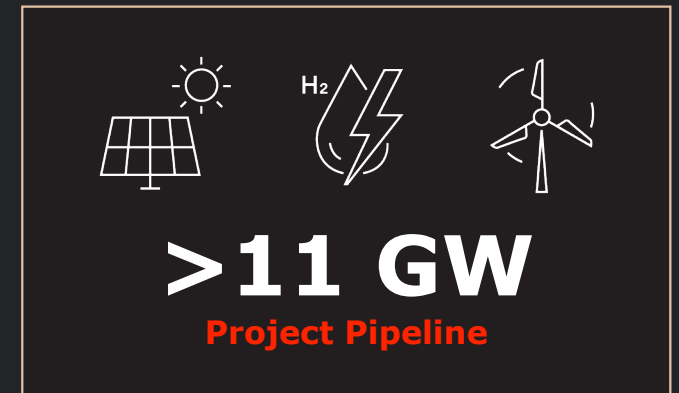
Today

○ Activity not yet started ● Activity finalized



Smartenergy at a glance

We invest sustainably by promoting renewable projects



Smartenergy has a proven track-record of renewable energy project development in Portugal and Europe



2011 in
Wollerau, CH



Green H2,
Solar PV &
Wind



Portfolio of
2.1 GWe
Green H2

Our footprint in Portugal



Portfolio of c. **1.5 GW** of
green H2 /SAF projects



Portfolio of c. **2.7 GW**
of PV and wind projects



Past & planned direct
investments of > **EUR 4 bn**



30 local FTEs



Active in the major
European markets



Multidisciplinary team
of
>400 people ¹⁾



Portfolio of
9.0 GW
Solar PV + Wind

1) Increase of c. 250 FTE related with integration of Prodiel in the Group

An underwater scene with blue water and bubbles rising from the bottom. A faint, large logo is visible in the background on the right side.

Committed.

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