



Solargasmove Project

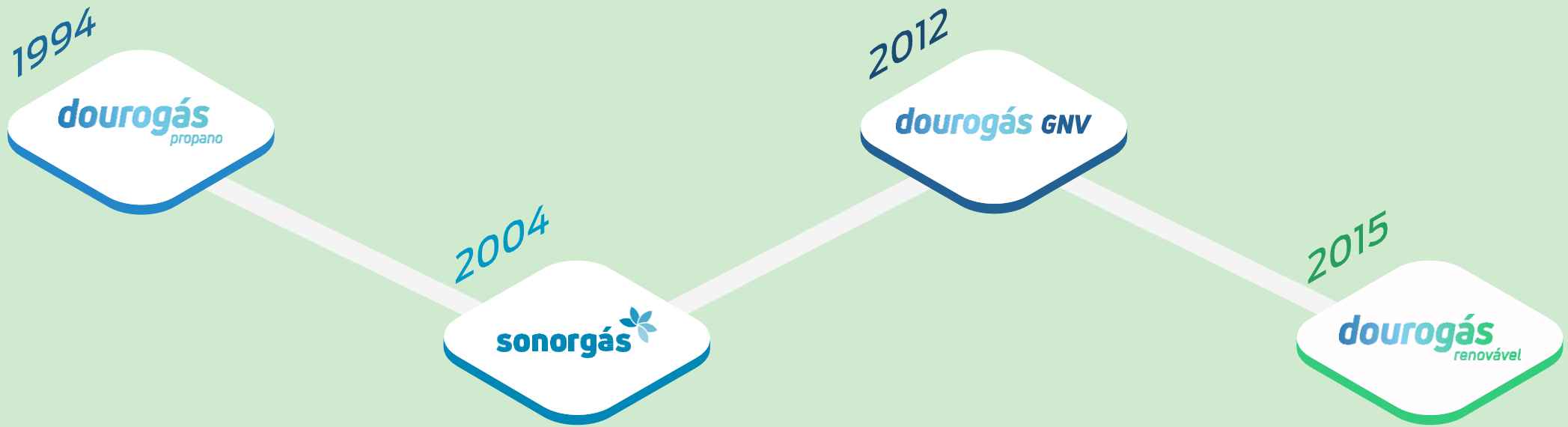
Joaquim Marques- Project Developer Dourogás

dourogás
renovável

2nd
WEBINAR
5th May 2022 **P2M**

Regional Development

Energy Transition





**NATURAL GAS
GRIDS**

**NGV
STATIONS**

**H2 AND
RENEWABLE
GASES**



**NATURAL GAS
GRIDS
(1994)**

CARBON FREE ENERGY

Regional Development

- | | |
|--------------------------|---------------------------|
| 1 – Alfândega da Fé | 17 – Montalegre |
| 2 – Alijó | 18 – Murça |
| 3 – Amares | 19 – Peso da Régua |
| 4 – Arcos de Valdevez | 20 – Ponte da Barca |
| 5 – Baião | 21 – Póvoa de Lanhoso |
| 6 – Cabeceiras de Basto | 22 – Ribeira de Pena |
| 7 – Carraceda de Ansiães | 23 – Sabrosa |
| 8 – Celorico de Basto | 24 – Terras de Bouro |
| 9 – Macedo de Cavaleiros | 25 – Torre de Moncorvo |
| 10 – Melgaço | 26 – Valpaços |
| 11 – Mesão Frio | 27 – Vila Flor |
| 12 – Miranda do Douro | 28 – Vila Pouca de Aguiar |
| 13 – Mirandela | 29 – Vimioso |
| 14 – Mogadouro | 30 – Vieira do Minho |
| 15 – Monção | 31 – Vinhais |
| 16 – Mondim de Basto | |

**NGV STATIONS
(2010)**

CARBON FREE MOBILITY

Urais - Mirandela



Vila Real



Porto - STCP



Gaia Sul - Picoto



Carregado



Loures



Elvas



Maia – A41



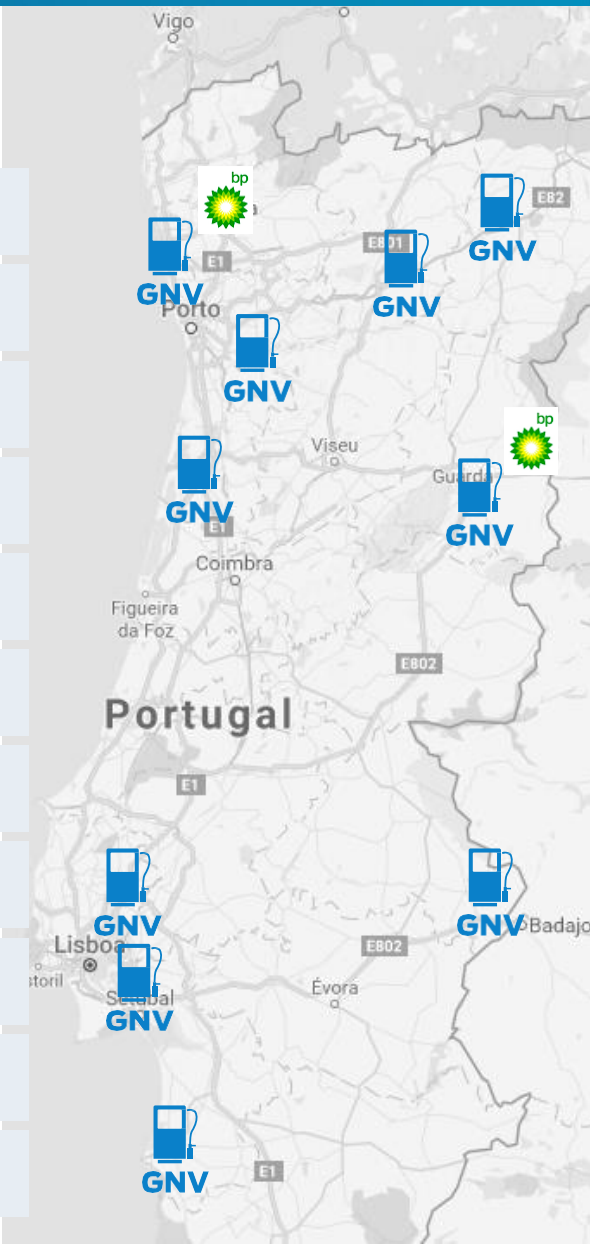
Vilar Formoso A25



Palmela



Via Norte - STCP

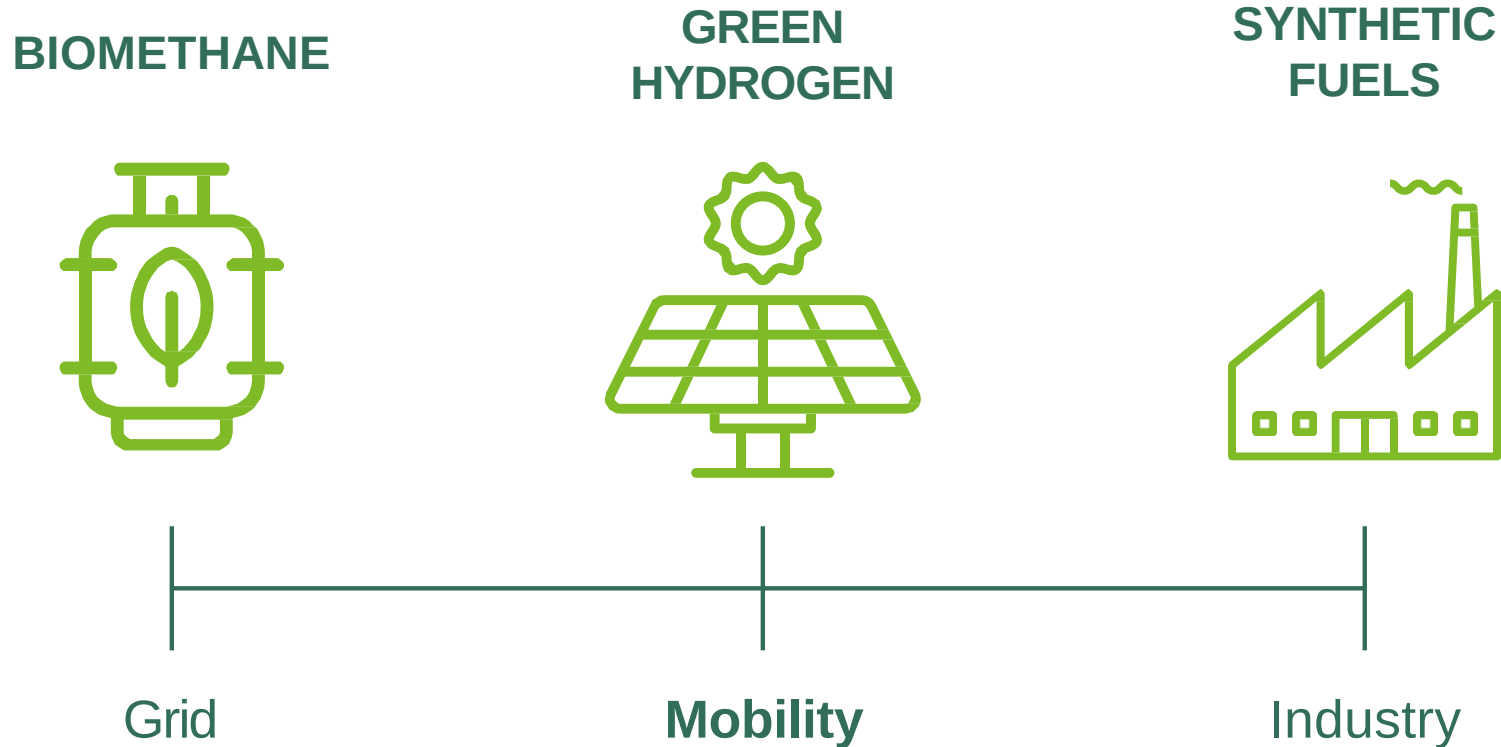




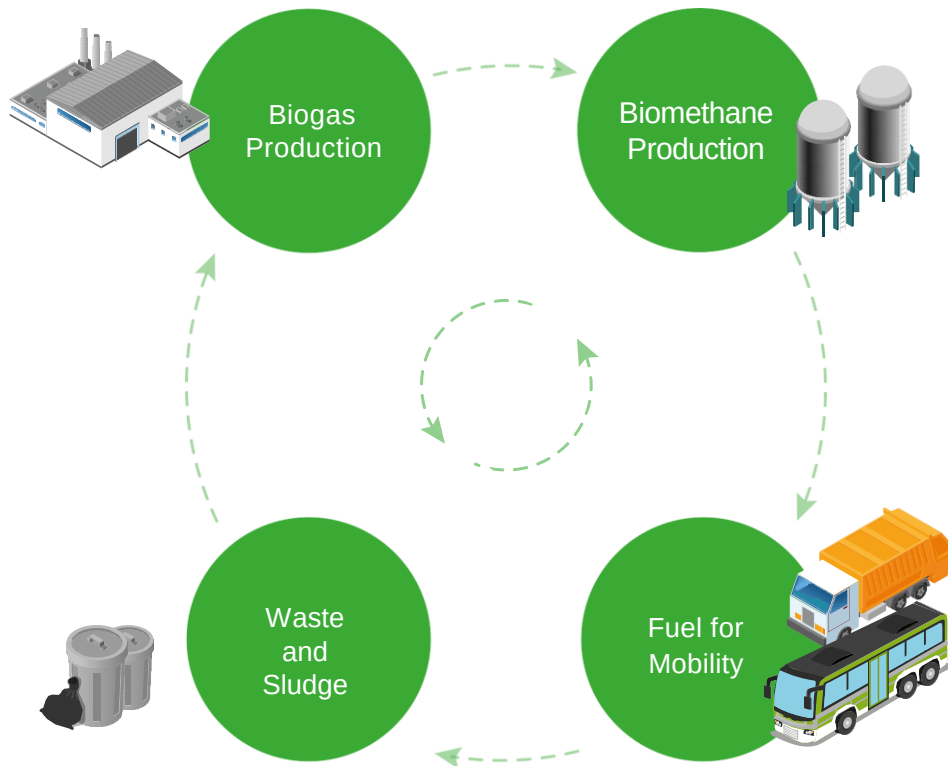
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Leaders in Renewable Gases

**RENEWABLE GASES ARE GOING TO ALLOW PORTUGAL TO BE COMPETITIVE
IN THE ENERGY SECTOR**

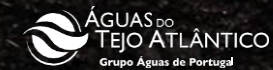


Dourogás Renovável created the first biomethane project in Portugal in 2017



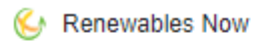
Biogasmove (2017)

Biomethane production from waste – Mirandela
Potential to produce up 6 GWh/year



Lisbon - Hidrogasmove (2022)

Biomethane production from the Loures WWTP Sludge
Potential to produce up 30 GWh/year



Lightsource bp, Dourogas plan 130-MW green H2 portfolio in ...

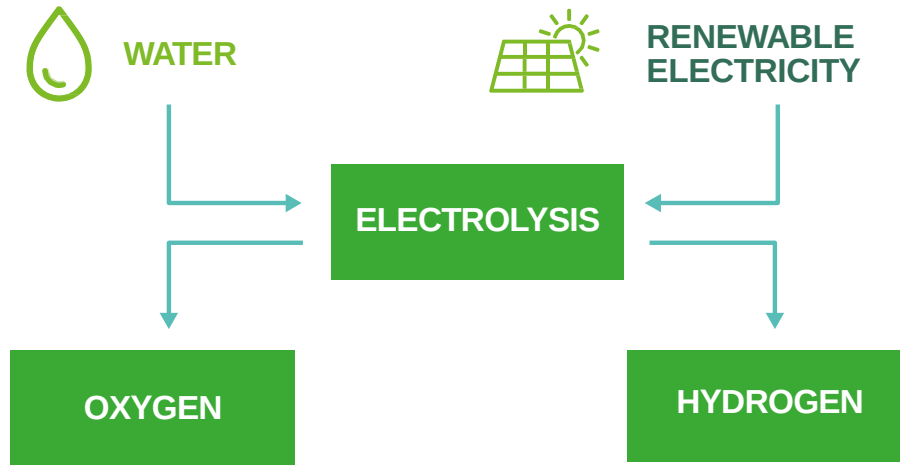
As part of the new joint venture, Dourogas will develop the electrolyzers, while Lightsource bp will supply them with electricity from up to...

23/12/2021



In 2021, Dourogas and Lightsource bp made a Joint Venture for the development of Green Hydrogen projects in Portugal.

200MWp of solar projects will power 130MW electrolyzers, that will convert water to green hydrogen and oxygen to be injected in the gas grid.



- ✓ Production and injection of Green Hydrogen in the Portuguese Gas Grid
- ✓ 1st Portuguese project: 10 MW PV Park and 5 MW electrolyser.
- ✓ Project value of 14 M€ with 5 M€ grant;
- ✓ 7 more projects being developed

H₂

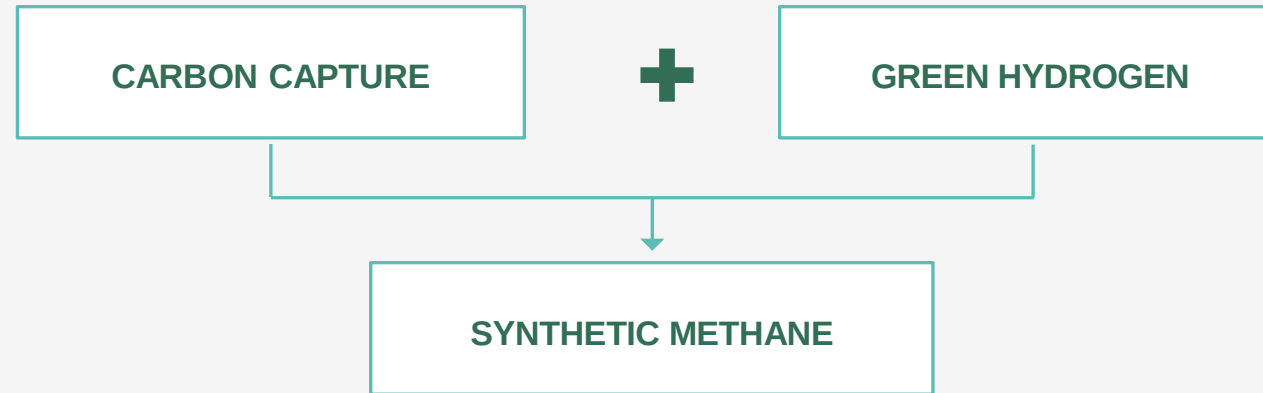
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lightsourcebp

**What happens when we combine
Biogas & Green Hydrogen?**



Solargasmove is expected to be the first fully operational Dourogas project in the e-fuels sector

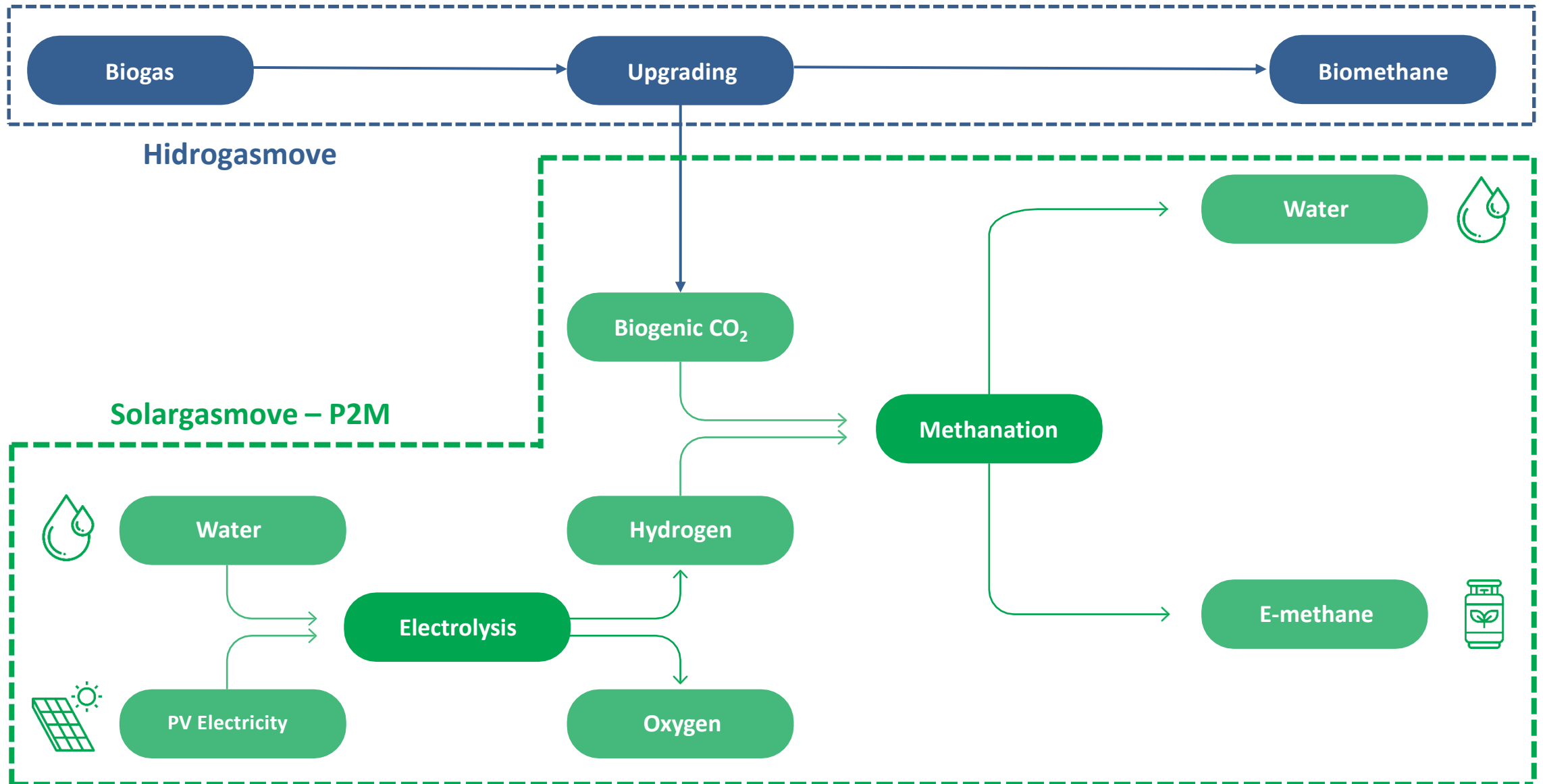


✓ Production of e-methane in the Loures WWTP

✓ Investment of 2,1 M€

✓ Use of biogenic CO₂ from biogas

✓ Supported by FAI in 1,35 M€



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KEY POINTS

- 1 USE OF EXISTING INFRASTRUCTURE
- 2 EXISTENCE OF BIOGENIC CO₂ IN A LARGE QUANTITY
- 3 NEED OF LOWERING CAPEX COSTS
- 4 HOW CAN IT COMPETE WITH GREEN HYDROGEN?



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