

ANTICIPATION - LEARNING - OPTIMIZATION - CONTROL

POWIDIAN

POWER IN ALL MERIDIANS











THE BEGINING

- ✓ Started in December 2014, 28people, France (Tours and Paris)
- ✓ **© AIRBUS**DEFENCE & SPACE Spin off, after 10 M€ and 4 years R&D for Airbus

PATENTS

√ 3 International Patents

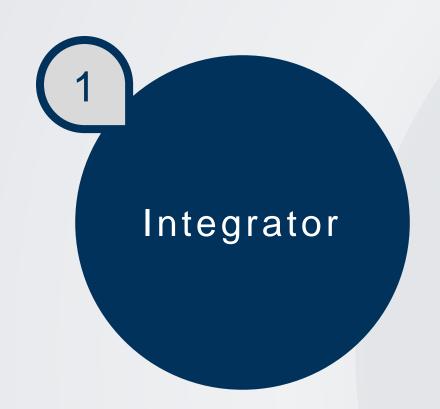
AWARDS

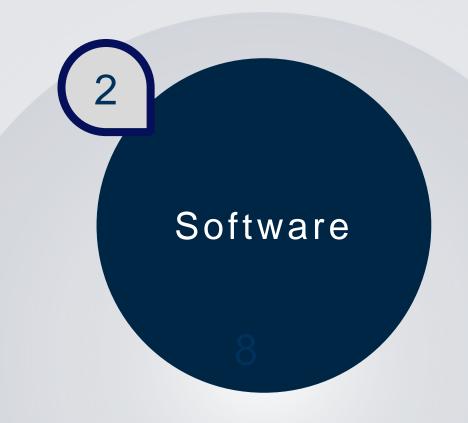
✓ Prestigious awards (COP 21 climate change trophies...)

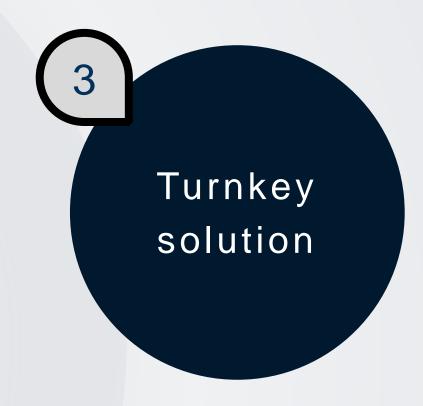
History in short



Powidian's ADN







Technologically Agnostic

Powidian does not develop hardware technologies,.

Powidian tests selects and uses the best available technologies

EMS Sages

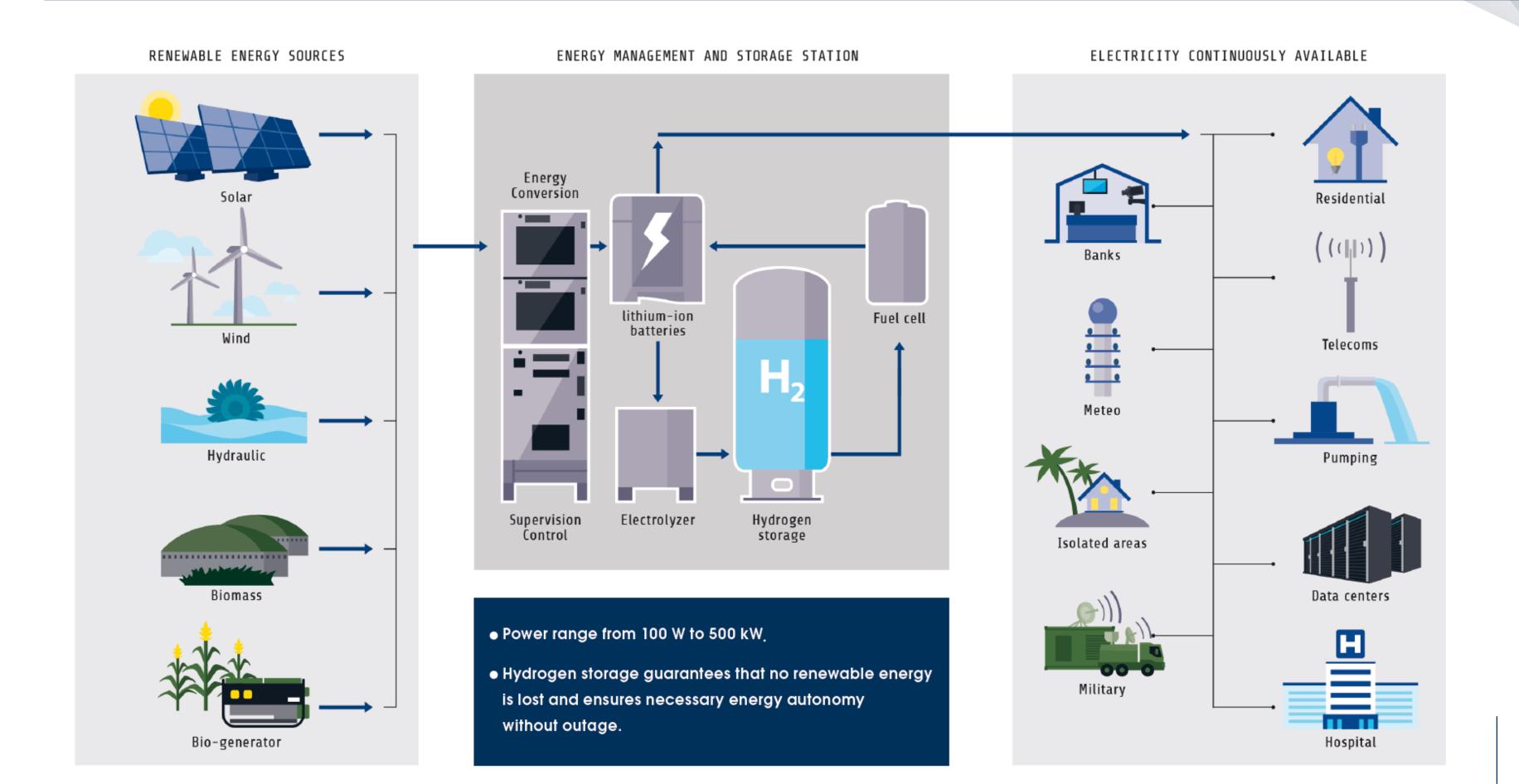
Powidian develops Energy Management software running in Powidian Master Controller.

Powidian offers

Powidian designs, builds, installs and maintains Energy Systems for Isolated sites, Smart grids, smart buildings...

SAGES





SAGES Applications



Autonomous Tactical Energy

Remote sites / Micro-grids













Mobile H2 Energy





Buildings/Grid-Connected





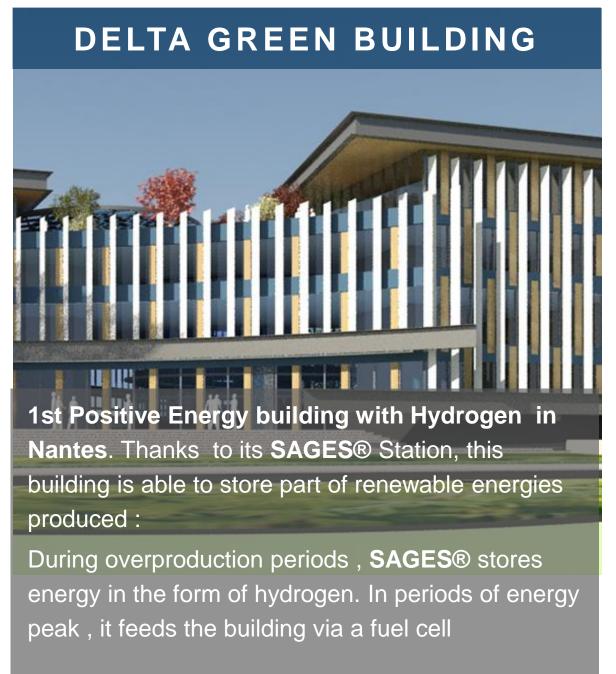


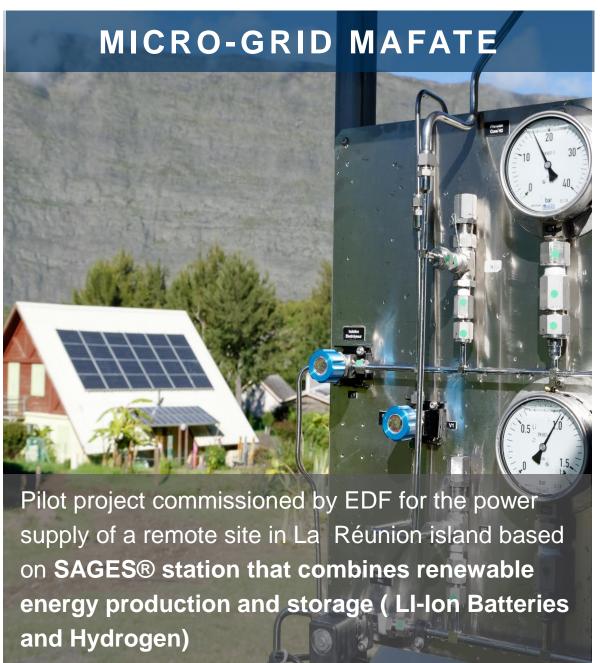


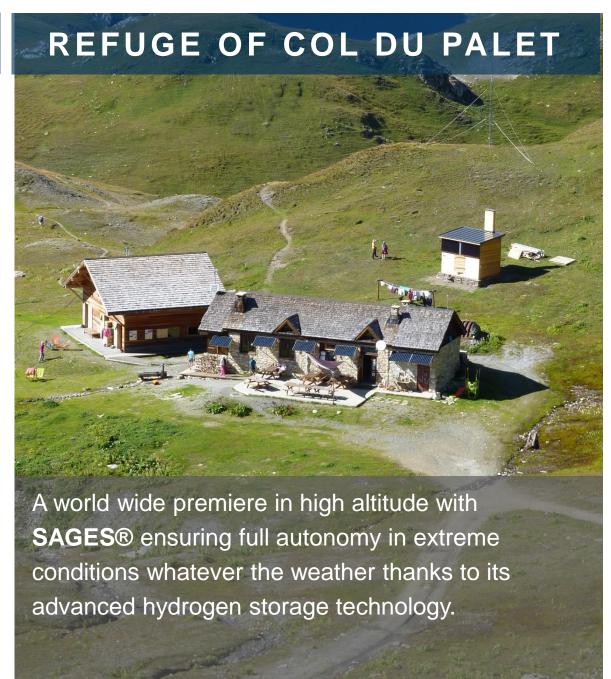


OUR REFERENCES







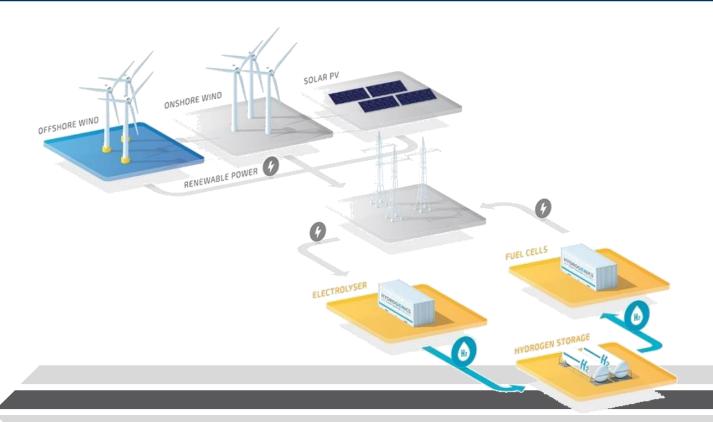


Installed and Proven Turn key solution



Insular Micro-Grid: Norway - FROAN Islands

2011 Contract awarded





- 50 kW peak/ 2500 m2 solar panels
- 600 kW wind turbine



Hybrid storage : 2 MWh

- Annual Green Hydrogen Production and consumption up to **100 kg per year**
- 24/7 => Full autonomy green electricity





20 houses, 1 fish farm, 50 week-end cottages



Fuel cell 100 kW Electrolyser 100 kW 20 Nm3/h

• End of contract: 2021

Ministry of Défense : Glorieuse Island



2018 Contract awarded





photovoltaic: 60 Kw peak



Storage: 5,6 H2 220KwhWh batteries



Electrolyser: 2 Nm3



Fuel cell: 10 KW

- After this field test, the target is to install the other islands of "Terres Australes et Antartiques Françaises"

order to replace the diesel generator.

Powidian delivers an autonomous turn key solution in

End of contract: December 2019



DGAC: Sarlat site



2019 Contract awarded





photovoltaic:19 Kw peak



Storage: 21kg H2 24 KwhWh

batteries



Electrolyser: 1,5 Nm3



Fuel cell: 5 KW

Powidian and Bouygues Energy service will deliver an autonomous turn key solution

DGAC Target: Autonomy air traffic safety

- There is a potential of 80 sites to follow

End of contract: March 2020

GENSET "ZERO EMISSION"



MobHyl Power®



Use cases:

- Industrial sites, Construction sites, Tunnel construction
- Clean cities, Sport events, Movie sets

ADVANTAGES

- Power 30kw , 4 Kw, 100Kw without pollution emission
- Silent operation
- Reduced maintenance
- Robustness and a life time over 50 000hours (vs 15 000h for diesel)
- Simple operational management thanks to an ergonomic intuitive control, local or remote
- Quick start whatever weather conditions



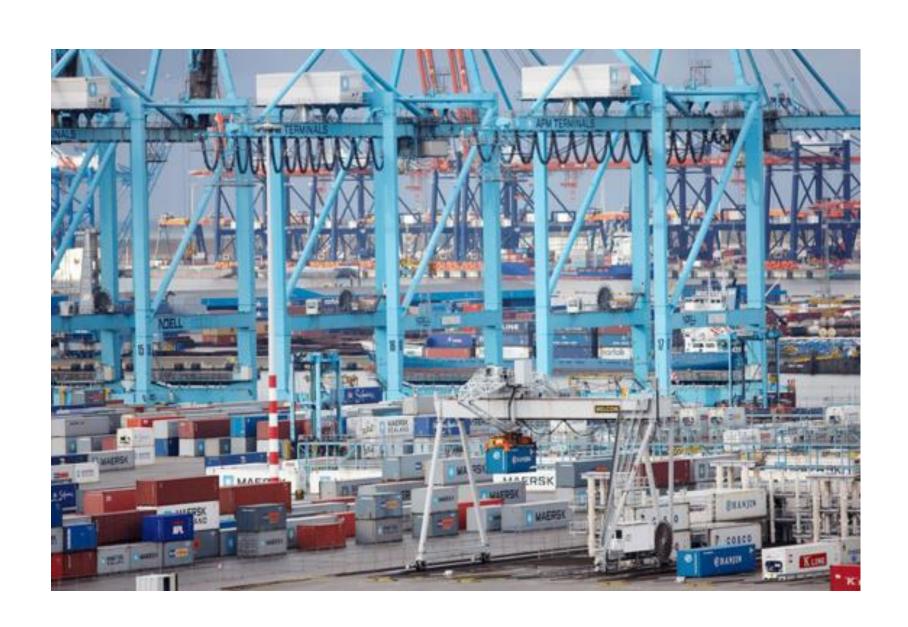




Rotterdam Harbor: Field test



2019 Powidian selected



- Rotterdam harbor selected
 Powidian for a MobHyl Power M30 field test in the second semester 2019, following an European tender.
- The aim is replace all diesel generators (estimated 150 units)

ANTICIPATION - LEARNING - OPTIMIZATION - CONTROL





CONTACT

20 rue Marie de Lorraine 37700 La Ville aux Dames



Jean-Marie BOURGEAIS

Tel: 06 85 74 43 64

Email: jean-marie.bourgeais@powidian.com



https://www.linkedin.com/company-beta/5347204/



https://twitter.com/PowiDian



admin@powidian.com



+33 (0) 9 72 53 89 60