

Originated from Airbus Group's developments, PowiDian has demonstrated its know-how of intermittent renewable energy storage technologies and management of poor quality networks.

PowiDian integrates **all hydrogen technologies** in its solution portfolio: hydrogen production, electricity, heat, fuel for mobility and long-term storage.

Anticipation, learning, optimization and control are the cornerstones of PowiDian SAGES® software suite of solutions.



100% AUTONOMOUS POWER



HYDROGEN BASED PROJECTS FEASIBILITY STUDIES



EPC (ENGINEERING, PROCUREMENT, CONSTRUCTION & COMMISSIONING)



PRODUCTION OF DECARBONIZED ELECTRICITY



DIESEL GENERATORS
REPLACEMENT



ENERGY SYSTEM MANAGEMENT, OPTIMIZATION AND CONTROL





COL DU PALET MOUNTAIN SHELTER

ISOLATED BUILDING

World highest hydrogen production installation in Parc de la Vanoise (Alt. 2,600 m) for a 40 bed mountaineering shelter. This SAGES® station has been in operation since its 2015 commissioning.



LA REUNION ISLAND - MAFATE

ISOLATED VILLAGE - MICRO-GRID

Installation of a SAGES® station for EDF (Électricité de France). 100% solar powered electric network with hydrogen storage. It supplies public buildings with electricity all year round. In operation since its 2016 commissioning.



SAINT-HERBLAIN

POSITIVE ENERGY BUILDING

The 4,600 m2 DeltaGreen office building combines renewable energy and hydrogen storage for peak consumption control and lower subscription costs. In operation since its 2016 commissioning.



FROAN ISLANDS - NORWAY

INSULAR SITE - MICRO-GRID

Installation of a micro-network for TronderEnergi, the Norwegian energy company. It combines miscellaneous renewable energy sources (wind and solar) and a dual battery / hydrogen storage. Realized within a consortium and part of the European project «Remote». Installation in 2019.



GLORIEUSE ISLAND - INDIAN OCEAN

INSULAR SITE - MICRO-GRID

Solar power plant associated with hybrid battery / hydrogen storage to replace the present diesel based electrical production. Client: French Army. Installation in 2019.



TOULOUSE

FULLY AUTONOMOUS BUILDING

Inter-seasonal storage technology installation based on an hydrogen chain (electrolyser, fuel cell and 200 bar storage), for CEA Tech Liten «TOTEM» building in Labège (France). Installation in 2019.

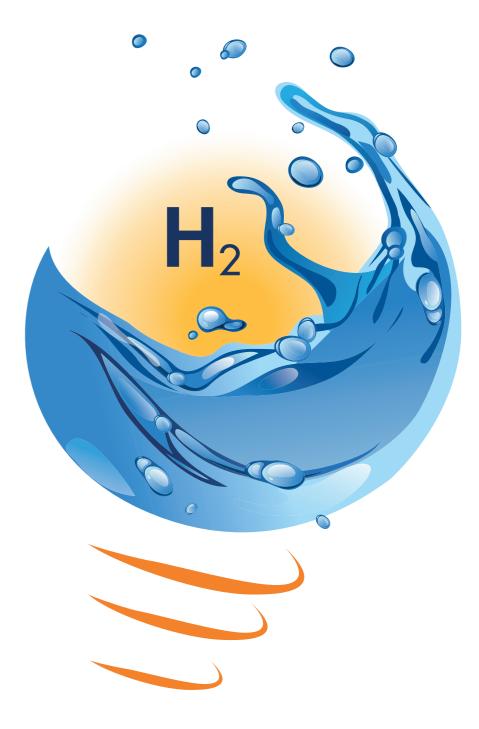






HYDROGEN SOLUTIONS

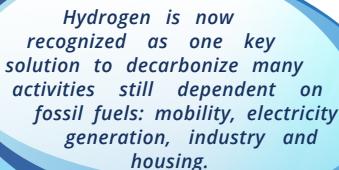
FOR ENERGY TRANSITION







Hydrogen is a real energy vector. It allows long-term energy storage, it is a fuel for mobility, and can produce electricity, heat and cold.





ECO-**DISTRICTS**

Hydrogen is used to store renewable energy and increases individualized or shared selfconsumption within a neighorhood.

CLEAN **CONSTRUCTION SITES**

Thanks to hydrogen, urban construction sites can be CO2 emission-free and noise-free for all of their electrical needs: construction equipment, tools, lighting etc...

GREEN TRANSPORT

Regardless of the type of mobility, hydrogen is a solution to decarbonize short or longrange transportation.

PORTS POWER SUPPLY

For the power supply of docked or refueling ships, Hydrogen is a key element to decarbonize maritime transport and tourism.

ISOLATED SITES

Hydrogen makes it possible to add «long-term storage» components to renewable feeds of isolated sites, thus making them fully autonomous without any fossil fuel.



OUR SOLUTIONS



100 % AUTONOMOUS POWER

The combination of renewable energy production and short and long-term storage technologies makes it possible to meet the energy needs of isolated sites (villages, islands, remote facilities). Thanks to its **design capabilities**, PowiDian takes care of the design and installation of projects and also offers operation and maintenance.



HYDROGEN BASED PROJECTS FEASIBILITY **STUDIES**

Due to its intimate knowledge of the hydrogen world and its full expertise on related equipment, PowiDian carries out feasibility studies and budget estimates of all types of hydrogen based projects.



EPC (ENGINEERING, PROCUREMENT, **CONSTRUCTION & COMMISSIONING)**

PowiDian focus and know-how is the realization of integrated systems based on the use of hydrogen. PowiDian takes care of the engineering, installation and commissioning of any projects.



PRODUCTION OF DECARBONIZED ELECTRICITY

With its field proven technology, PowiDian is a green electricity producer and proposes PPA type contracts (Purchase Power Agreement).



DIESEL GENERATORS **REPLACEMENT**

PowiDian, fuel cell specialist, offers a range of hydrogen powered «zero emission» generators, ranging from a few kW to the MW.



ENERGY SYSTEM MANAGEMENT, OPTI-**MIZATION AND CONTROL**

Optimizing energy management is at the heart of PowiDian's raison d'etre. PowiDian proprietary software embedded in our solutions ensures efficient and autonomous energy management. Our dedicated supervision interface allows visualization and analysis of energy data. Thanks to Al, PowiDian offers on-board self-learning capabilities based on production and consumption fore-