

Opportunities for collaboration

March 24th, 2021









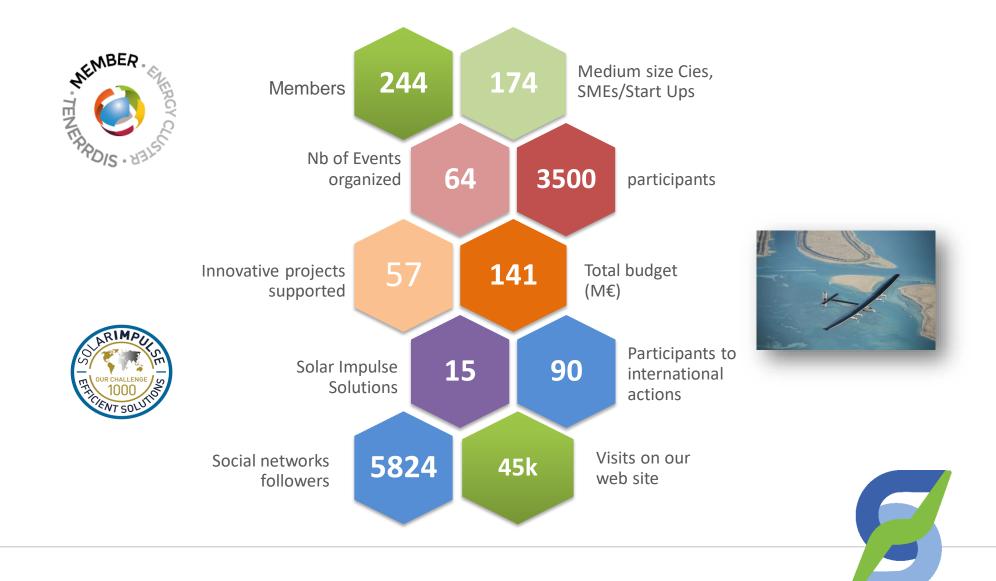




Strategic Focus Sectors



Tenerrdis: key figures 2020



SMARTENERGY Digitalising Energy in Europe



NATIONAL FRENCH HYDROGEN PLAN 2020

GREEN HYDROGEN

1 OF 11 STRATEGIC MARKETS IDENTIFIED BY FRANCE FOR FUTURE INVESTMENTS- FEB. 2020

CALL FOR INTEREST

160 APPLICATIONS WERE SENT REPRESENTING €32.5B OF TOTAL INVESTMENT; €7B NEEDED FROM PUBLIC FUNDING

PUBLIC FUNDING

FRANCE HAS COMMITTED TO €7B, OF WHICH €2B BEFORE 2022



Rhône-Alpes INVEST IN Grenobleai P

GOALS





DEVELOP CLEAN TRANSPORTATION (ESPECIALLY FOR SHIPPING)



CREATE JOBS (50,000-150,000 **DIRECT & INDIRECT)**

NATIONAL FRENCH HYDROGEN PLAN 2020

FUNDING PRIORITIES 2020-2023

FUNDING RESEARCH & INNOVATION 19% DEVELOPING HYDROGEN OPTIONS FOR PROFESSIONAL VEHICLES 27%

CUTTING CARBON EMISSIONS IN INDUSTRY

54%

1 Hydrogen 1.008





ZERO EMISSIONS VALLEY (ZEV) LEADING THE H² REVOLUTION

LED BY:

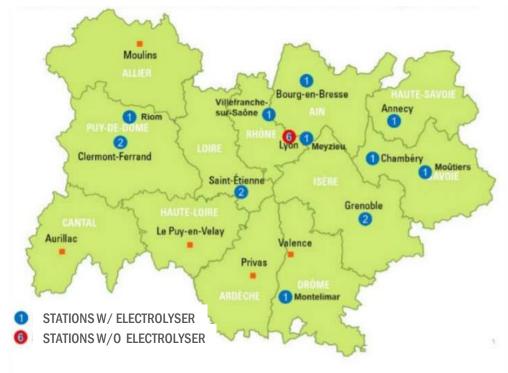


OTHER FINANCIAL PARTNERS:





LAUNCHED IN 2017



The largest zero-emission hydrogen mobility deployment project in France & one of the most ambitious in Europe.

THE PROJECT:









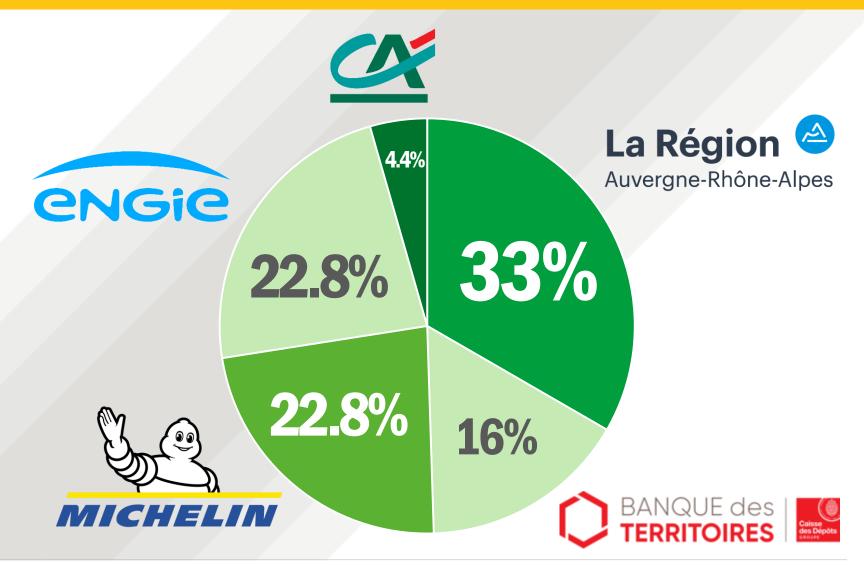
Rhône-Alpes

HYMPULSION H² PRODUCER & DISTRIBUTOR FOR THE ZEV



A semi-public company with multiple public & private shareholders,

In charge of the production & distribution of H2 as part of the ZEV initiative.





ZERO EMISSIONS VALLEY PARTNERS





3 SELECTED COMPANIES WILL INSTALL THE FILLING STATIONS & ELECTROLYZERS

1 COMPANY WILL PROVIDE SUPPORT FOR ALL PHASES



Auvergne

Entreprises

"This hydrogen filling station project is part of the future. A true alternative to fossil fuels, it is the work of an entire sector, one that is particularly dynamic in the Auvergne-Rhône-Alpes region." Jean-Christian Beaumont, General Manager, Hympulsion.

Rhône-Alpes



CEA LITEN PIONEER IN NEW ENERGY TECHNOLOGIES

CENTER FOR APPLIED RESEARCH IN ENERGY TECHNOLOGIES

RENEWABLE ENERGY, ENERGY EFFICIENCY/STORAGE, DEVELOPMENT OF MATERIALS

1,000

liten Ceatech

1,600





350

€138M ANNUAL **BUDGET**

FIGURES

KEY

PLATFORMS

100 ACADEMIC PARTNERS



BRIDGING THE GAP BETWEEN ACADEMIA & THE ENERGY INDUSTRY

15 TECH

Auvergne INVEST IN Grenobleai P Rhône-Alpes Entreprises

CEA LITEN PIONEER IN HYDROGEN

HYDROGEN STORAGE & PRODUCTION PLATFORM

920m²

FACILITIES & TESTING

SPACE



45

PATENTS IN ITS

PORTFOLIO





40

ENGINEERS

MISSION

+10

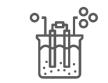
INDUSTRIAL

PARTNERS

This platform focuses exclusively on hydrogen as an energy vector. Projects include reversible high-temperature electrolysis technology & the coupling of this technology with renewable energy production. SOEC/SOFC FABRICATION LAB

LABS

INNOVATIVE



COMPONENT PER-FORMANCE & LIFE-SPAN TESTING LAB



LARGE-SCALE STORAGE LAB





Rhône-Alpes

MAJOR ACTORS IN ENERGY TECHNOLOGIES



#1 +1,000+100

INDUSTRIAL SITE IN FRANCE

Auvergne

Entreprises

EMPLOYEES IN GRENOBLE ALPES **COUNTRIES OF INTER-**NATIONAL PRESENCE





THE HEART OF H²

Air Liquide hydrogen filling stations worldwide are designed & produced in Grenoble Alpes.

H2 REFUELING STATIONS

ACTIVITIES

MICRO FUEL CELLS

CRYOGENIC **TECHNOLOGIES** ROCKET **TANKS**









INVEST IN RENOBLEALP Rhône-Alpes

MAJOR ACTORS IN HYDROGEN TECHNOLOGIES



98

EMPLOYEES

DEVELOPMENT SITES IN EUROPE **€11.4M** REVENUE IN 2019





GRENOBLE ALPES R&D

McPhy was founded in Grenoble, thanks to a joint project between the CEA Liten & CNRS. The company is based on its breakthrough hydrogen solid-state storage technology. McPhy maintains management & teams dedicated to product engineering & project management in Grenoble Alpes.

3 HYDROGEN MARKETS

INDUSTRY

MOBILITY

ENERGY







How to work with us

Looking for a partner for a European Project ?



Contact Hervé Muguerra, our European Project officer <u>Herve.MUGUERRA@tenerrdis.fr</u>

Want to investigate opening a subsidiary in our region ?

andrea@investingrenoblealpes.com

or

alonso@investinlyon.com

