Green Hydrogen: Towards an Energy Revolution
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ENGIE a world leader in Energy

€66.6 billion of revenues in 2016
ACTIVITIES IN 70 COUNTRIES
153,090 employees across the world
112.7 GW of installed power production capacity

Europe***
133,770 emp.
2016 rev.: €52.7 billion
44.7 GW installed**

Asia
3,130 emp.
2016 rev.: €2.9 billion
7.5 GW installed**

Middle East
1,380 emp.
2016 rev.: €0.5 billion
26.3 GW installed**

Oceania
3,825 emp.
2016 rev.: €1.6 billion
3.9 GW installed**

Africa
400 emp.
2016 rev.: €0.3 billion
1.4 GW installed**

Latin America
6,235 emp.
2016 rev.: €3.9 billion
17.2 GW installed**

North America
4,350 emp.
2016 rev.: €4.7 billion
11.7 GW installed**

Middle East
3,825 emp.
2016 rev.: €1.6 billion
3.9 GW installed**

Oceania

** Figures as of 31 December 2016
** Installed capacity at 100%
*** Including Turkey
**** Including Mexico

ENGI E Fab
ENGIE ambition and objectives

In a new energy world characterized by Decarbonization, Decentralization and Digitalization ENGIE ambition is to:

Be the world leader in Energy Transition

Building on its wide expertise and strong international positions in the fields of electricity, natural gas and energy services, ENGIE focuses on three growth engines:
ENGIE presence in Chile

100 years
of history in the country

2,600 MW*
of installed capacity including
63 MW of solar power

2,768 kms*
of transmission lines including the
line that will interconnect the north
and center grids

1,070 kms
of gas transport network from the
north of Chile to the north Argentina

5.5 Mm3
of daily regasification capacity

200 clients
in the energy services sector
(2015-2016)

* Includes projects under construction

2,800 employees
Strong position
in power generation,
energy services and
gas infrastructure
ENGIE Fab: a systemic vision of a full 3D energy world around five verticals that contribute to a 100% Renewable Solution

- Energy communities
- Dispatchable RES
- Hydrogen
- Electric and digital mobility
- Building as a Service

Solutions 100%RE
Green Hydrogen: towards an Energy Revolution

1. Massive green H2 production through cheap RES

2. Local multi-usage business: elec, heat, cold, process, transport

3. Transport of green energy to regions with limited RES potential

4. Multi-usage green offer

- Energy intensive as mines, ammoniac, steel, cement...
- Electricity
- Hydrogen
- Heat & cold
- Chemical carrier
- Multifluid
Recent move of ENGIE in the field of Hydrogen

- Supporting development of Hydrogen mobility
- Development and industrialization of Hydrogen fuel cell technology for electric mobility (incl. range extender)
- Investment in a start-up

H₂ fuel cell
SymbioFCell

- Supporting development of Hydrogen for industry and territories
- Development of a plug and play concept to produce, store and use green Hydrogen (multi usage solution)
- ENGIE Cofely

Green H₂ production
EffiH2

Symbio’s RE integration into a car

ENGIE supplying CEA installation
Thank you