La cooperazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

NEW Mobility Electric SYSstem



Marco Matteini Sole Director and Legal Representative

marco.matteini@nemesyenergy.com Mob.+39 3357204568





La cooperazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

Electrical Mobility today is based of two solution:

1) Batteries

- Recharging are very too slow
- Overweight of the electrical vehicles with batteries
- Autonomy is very limited compared to thermal engines

2) Fuel cells:

- Safety, because they used hydrogen in very high pressure
- Costs are very high for safety along all supply chain
- Infrastructure the lack infrastructures for refueling

We have developed a new technologies to solve this problems

Innovation & Technology

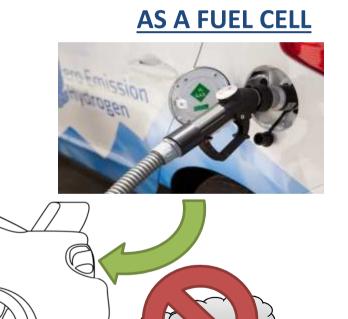


La cooperazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

NEMESYS have patented a device that it used a new solution of hybrid technology BY HYDROGEN

REFUELING BY FI FCTRICITY RECHARGIN WITH GRID CONNETTED SYSTEM

AS A BATTERY



REFUILING

LOW PRESSURE

MORE SAFETY

TWO REFUELING SYSTEMS

IT USE HYDROGEN AT LOW PRESSURE FROM ZERO TO EIGHT BAR

Comparison with lithium Battery technology



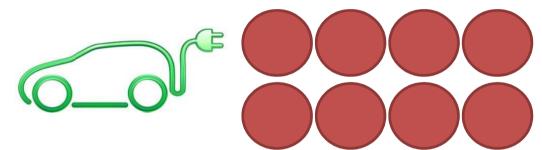
La cooperazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

Li-Ion Battery:

just a recharge system

Time of recharging

> 8 hours





Weight/Autonomy 1km/1kg

TESLA Li-Ion 75kWh

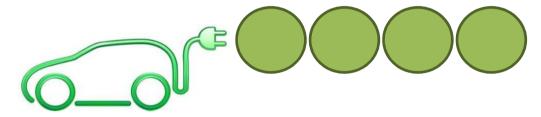


NEMESYS:

two charge systems

Time of recharging in electrical modus

< 8 hours



Refueling Very Speed 4 minuts



200 kg 700 km

Weight/Autonomy 3,5 km/1kg

Hydrogen refuiling 140kWh with low pressure <10Bar



Patented nr. 102016000038574 and World PCT/IB2017/052075

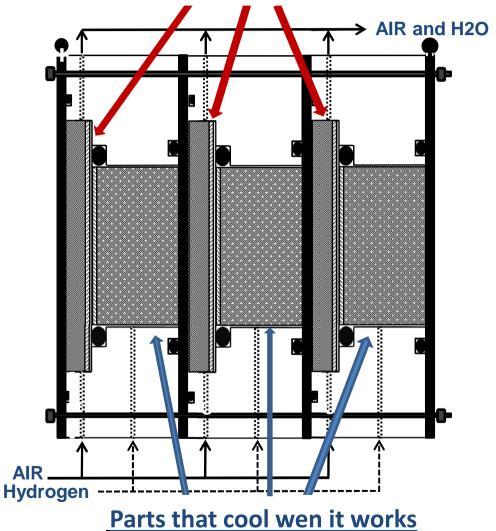


erazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

Many vantages:

- Very fast recharge
- More efficiency
- Less heavy
- More security
- Less costs
- More independence of refueling infrastructures

parts that heat up when it works



Three NEMESYS cells layout

NEMESYS TEAM:



La cooperazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

- Marco Matteini business owner, systems integrator of technologies and renewable energies;
- Alessandro Tampucci, Scientific Director, electrochemical author of many patents in the field of hydrogen and batteries technologies;
- Massimo Tucci, Designer electric vehicles and power-train;
- Marco Ulivagnoli, Specialist of private equity, Sweat Equity Srl;
- Enrico Baluardi, expert accounting tax administration and finance STUDI ASSOCIATI Srl

Customers & Market



La cooperazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

Automotive market forecasts by Cambridge Econometrics

(A BIG MARKET)

www.camecon.com

ICE

Internal Combustion Engine

HEV

Hybrid Electric Vehicle

PHEV

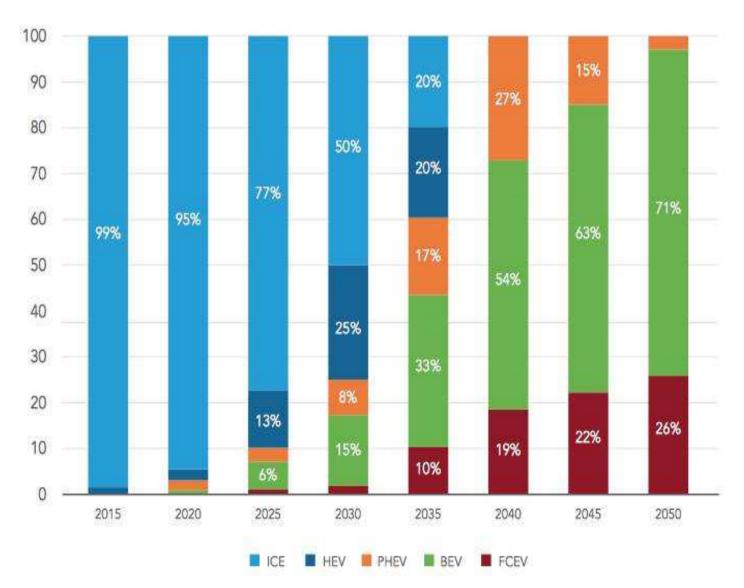
Plug-in Hybrid Electric Vehicle

BEV

Battery Electric Vehicle

FCEV

Fuel-Cell Electric Vehicle



Many other market applications









Beyonde automotive sector, many other market applications

NEMESYS GOALS



La cooperazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

Competition

We have developed and patented a new technology, different from the battery and fuel cell.

It is a hybrid between these and <u>opens up the possibility of building a new range of products for all mobile electrical applications.</u>

The goals of NEMESYS is to develop many applications in partnerships or in joint ventures with the largest companies that already have their markets, providing technological support of our own technology and using our patent in exchange for royalties

Business Model & Market Strategy



Horizon 20-20 Industry 4.0

Intellectual

Property

Company

Business Model:





Business Angels



Market

Strategy:



we aim at many Joint-Ventures



Banks





Nemesys







SMART GRID

Many Partners

Interreg

MARITTIMO-IT_FR-MARITIME



Capitals Market



✓ = Realized wip = Work in Progress tbd = to be determined

Current status & Roadmap



First step (2016-2019)

- 1. Establishment of NEMESYS Srl Innovative start-up of law Dlg. 179/2012
- 2. Participation to regional tender for request of funding for innovative start-up
- 3. Request of patent of the basic technology for NEMESYS Hydrogen-Air batteries
- 4. Realizzazione dei primi prototipi dimostrativi e test di laboratorio e benchmark
- 5. Opening and equipment of electrochemical laboratory in the incubator of technlogies
- 6. Participation to the calls of European SME instruments Phases 1 (pending action)
- wip 7. Participation to the calls of European SME instruments Phases 2

Second step (2019-2021)

- wip 1. Agreements for participation in other European projects with various industrial partners
- wip 2. Achievement second level patents for the projects shared with our industrial partners
- wip 3. Pre-industrialization of the applications with industrial partner selected

Third step (from 2021 onwards)

- tbd 1. Joint venture with battery or fuel -cell producers, for specific applications
- tbd 2. Joint venture with manufacturers of electric vehicles or/and with of other devices
- tbd 3. Joint ventures with energy companies and managers of energy distribution networks
- tbd 4. Participation in dedicated companies for the production of products
- 5. Participation in to the companies for the production and distribution of hydrogen
- 6. Participation in companies for energy services



La cooperazione al cuore del Mediterraneo | La coopération au cœur de la Méditerranée

NEMESYS IS THE WINNER INTERREG FIR_STRAT (16 November 2018) Thank you for your attention



Marco Matteini
Sole Director and Legal Representative

marco.matteini@nemesyenergy.com Mob.+39 3357204568