

European Organisation representing the Electrochemical Storage Industry

Members:

- Battery Manufacturers**
- Battery Supply Industry**
 - Cell and Module producers
 - Battery System Integrators - Battery packs

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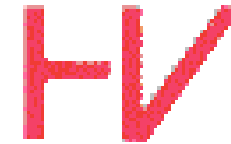
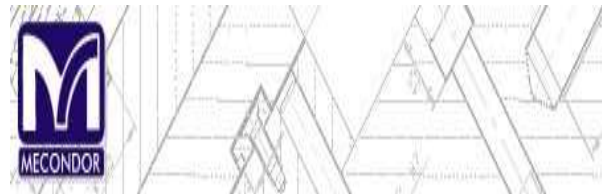
Eurobat Membership: regular members



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Eurobat Membership: associate members

Eurobat Associate Members include the major suppliers to the automotive and industrial battery manufacturers



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Eurobat Structure & Committees

- ⇒ **Committee for Environmental Matters (CEM)**
EU lobbying, legislation, Waste, Reach, ELV, RoHS, National networking...

- ⇒ **Research and Technical Development Committee (RTD)**
EU FP7 and national funding programs, connect with EC, Technology Platforms, EU & International organizations/associations

- ⇒ **Industrial Battery Committee (IBC)**
 - ⇒ Standardization, Statistics, Markets (EU, Middle East, Africa)
 - ⇒ IBC Task Force: batteries for Renewable Energy and electricity grid

- ⇒ **Automotive Battery Committee (ABC)**
 - ⇒ Mainly Start, Light and Ignition (SLI) batteries
 - ⇒ ABC Task Force: batteries for mild-soft HEVs, pHEVs, EVs

Battery Markets for Automotive Commercial and Two-wheelers:

- Cycle & motorcycles
- Passenger cars, LCV, HCV, buses
 - LSI & start-stop batteries for ICEs
 - for Micro, Mild and full HEVs
 - for pHEVs and EVs

Battery markets for Stationary, Traction, Portable, UPS and Utilities:

- Stand-by: UPS, telecom...
- Motive power: forklifts
- Transportation: train, maritime, aviation, space
- Electricity grid functionalities:
 - production, transmission, distribution
- Renewable energy: photovoltaic, wind...

Electrochemical Systems	Current Use
Lead-Acid	Automotive SLI Industrial
NiCad	Portable Industrial
NiMH	Automotive Hybrid Portable
Ni/Zn	Portable
Li-Ion	Automotive Hybrid Portable
Na NiCl2	Small Automotive Fleets

Different Energy Storage technologies and solutions respond to a variety of application requirements.

Optimization of current technologies to specific requirements

Recycling technologies and collection circuits established and operational



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An example of a Regular and Board Member

WHERE WE COME FROM



1974 Teodoro and Giacomo: first employees



Marche Region

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Starter Battery



Stationary Battery



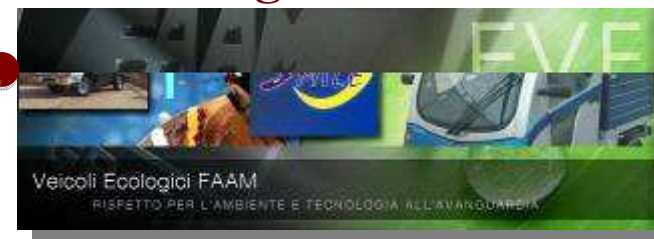
Traction Battery



Lithium Battery



Ecological Vehicles



Fuel Cell



Service



An example of a Regular and Board Member



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R&D of the regular Members – Fuel Cells Smile H₂

- Metallic plate
- New MEA
- Less sensible PEM by poor quality Hydrogen
- Mini PEMFC: Military use



- High temperature PEM
- More efficiency System (high voltage System)



FC IS NOT UNDER EUROBAT UMBRELLA



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R&D of the associates – Lithium Technologies



MILITARY VEHICLES



FAAM AND MAGNETI MARELLI



PRESS RELEASE

Magneti Marelli and FAAM: agreement for the development of batteries aimed at electric drive for sustainable mobility

Magneti Marelli and FAAM - leader in the production of starter batteries and industrial traction batteries - have signed an agreement for the development, production and marketing of innovative lithium traction batteries and the related control and management systems (BMS, Battery Management System).



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R&D of the associates – Energy Saving FAAM Battery

Target UE 2020

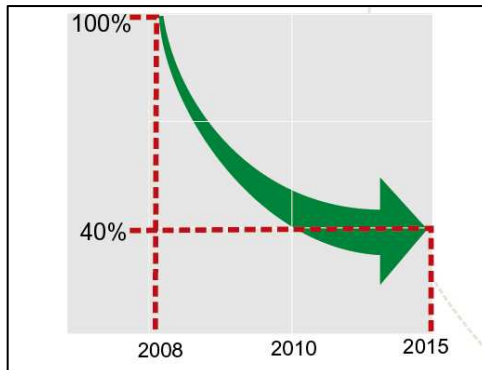
20% energy saving

20% reduction of CO₂ emission

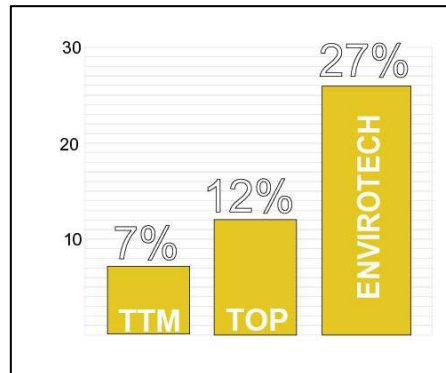
20% renewable energy



The FAAM contribution



Reduction of CO₂ emission



27% Energy saving during the recharge compared with our best competitor



Politecnical University of Marche have tested and validated the Envirotech System

“PATENT PENDING”

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-Thank you -

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