



Nemesis.

INNOVATIVE HYDROGEN TECHNOLOGIES

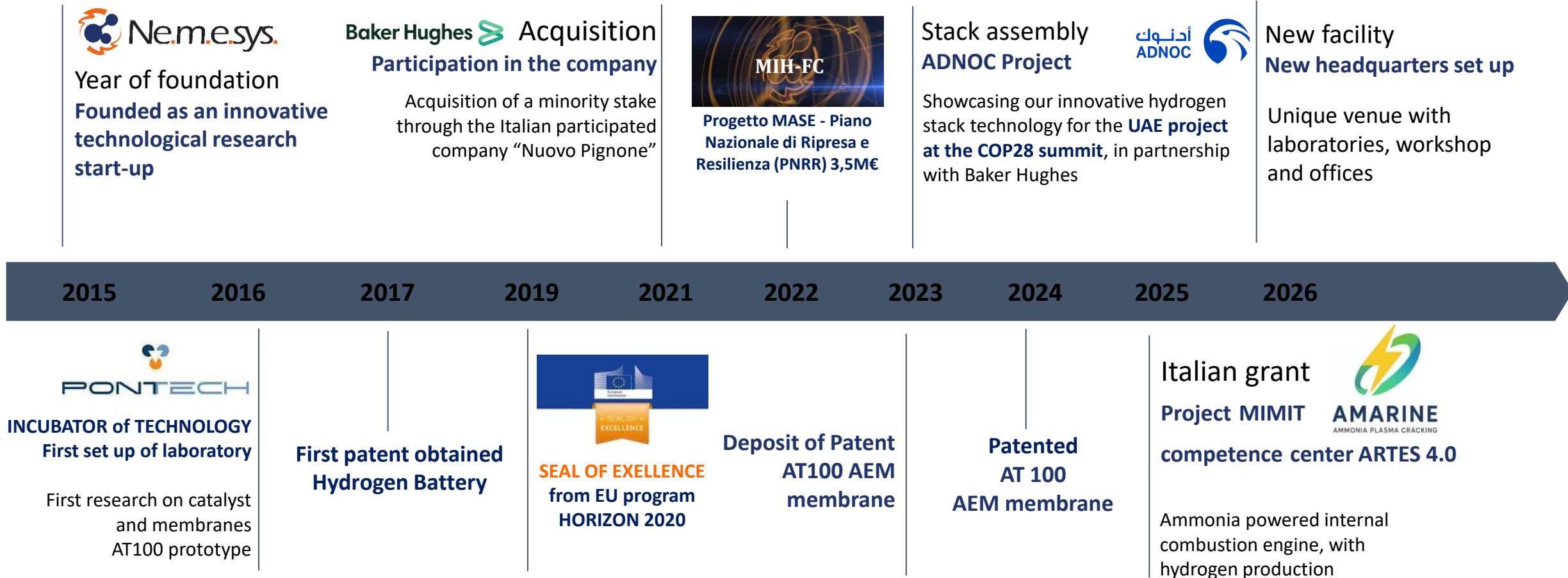


NEMESYS è una società di ricerca che lavora sulla frontiera dell'innovazione tecnologica lungo tutta la catena del valore dell'idrogeno, sviluppando soluzioni tecnologiche atte a superare le criticità che ne hanno impedito fino ad oggi la diffusione. Queste innovazioni hanno dato origine a numerosi brevetti, alcuni riconosciuti a livello internazionale. Inoltre, nei nostri laboratori abbiamo la possibilità di eseguire attività di test chimici ed elettrochimici, ricerca e produzione di catalizzatori e membrane per stack elettrolitici e fuel cells. NEMESYS è partecipata dal Gruppo multinazionale Baker Hughes che ne ha acquisito il 30% tramite la controllata italiana NUOVO PIGNONE HOLDING S.P.A.



NEMESYS is a research company working at the frontier of technological innovation along the entire hydrogen value chain, developing technological solutions aimed at overcoming the critical issues that have hindered its widespread adoption to date. These innovations have given rise to numerous patents, some of which are internationally recognized. Furthermore, in our laboratories, we have the capability to perform chemical and electrochemical testing, as well as research and production of catalysts and membranes for electrolyzer stacks and fuel cells. NEMESYS is partly owned by the multinational Baker Hughes Group, which acquired a 30% stake in it through its Italian subsidiary NUOVO PIGNONE HOLDING S.P.A.

Our history (main milestones)





Technology Assets

Advanced R&D focused on core component efficiency: next-gen catalysts and high-performance membranes.



Intellectual Property

Strategic IP management and patenting of proprietary manufacturing processes for global licensing.



R&D Partnership

Ability to offer development support for new low-TRL technologies via electrochemical testing, organic, and inorganic chemistry.



R&D support

IP management

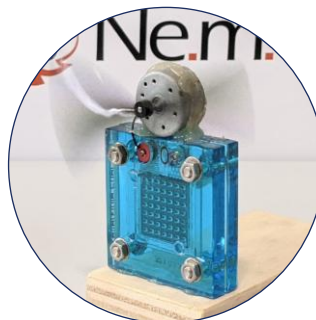
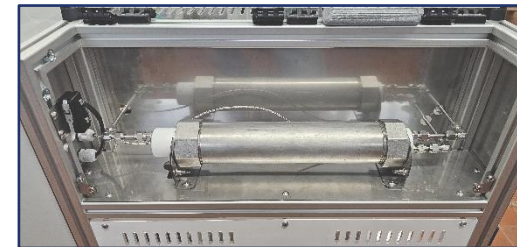
Technology transfer

NEMESYS



Technology licensing

Products development



PRODUCTION**STORAGE****UTILIZATION****Technologies****ELECTROLYSIS****DESALINIZATION****LOW PRESSURE
HYDROGEN
STORAGE****FUEL CELLS
PLASMA CRACKING****Products****MEMBRANES FOR
AEM ELECTROLYZERS****AEM STACKS****MEAs****ELECTRODES****CHEMICAL STORAGE****MODIFIED METAL HYDRIDES
(under evaluation)****DIELECTRIC BARRIER
DISCHARGE (DBD)****AEM FUEL CELLS**

TRL 7	TRL 6	TRL 5	TRL 4	TRL 3
AEM AT100 ^P	50 kW AEM ^P stack	MIH-Fuel Cell ^P		Super Cap H2 ^P system
AEM MEA ^P	DBD NH3 Cracking			Advance AEM ^P stack
	50 kW AEM stack			Ionic Isolator ^P for H2 system



Change the Energy - Save the World



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