



PRESS RELEASE

SYMBOLA FOUNDATION, ENEL, IN COOPERATION WITH FCA, PRESENT “100 ITALIAN E-MOBILITY STORIES 2020”: RESOURCES AND TALENTS TO PLAY A CENTRAL ROLE IN THE NEW ERA OF MOBILITY

- *Electric mobility is critical in fighting the climate crisis and achieving decarbonization targets;*
- *Electric cars are quickly becoming popular worldwide: today, there are more than 7 million electric passenger or freight vehicles in the world (1.5 million in 2016);*
- *Ermete Realacci, President of Symbola: “these 100 stories are examples of Italian excellence in the field of electric mobility and show that our country has the resources to overcome the crisis. We need to work together towards a more people-oriented economy and society, which must therefore be more future-oriented, more aware of the climate crisis, fairer, resilient and competitive.”*
- *Francesco Starace, CEO of Enel: “The fact that the world’s population is increasingly concentrated in large urban areas forces us all to rethink our lifestyles. This inevitably entails sustainable mobility, both public and private, which is not harmful to the environment and is effectively and clearly becoming increasingly electric.”*
- *Pietro Gorlier, COO of FCA: “Electric cars need to be designed and incorporated into a more comprehensive eco-system: to make sure everyone has access to them, we need to have a public and private charging infrastructure in place, with appropriate energy costs, dedicated parking spaces, simplified management of public land for installing charging stations, measures to support demand and, last but not least, a plan to modernize the industry.”*

Rome, July, 8 2020 – A snapshot of Italian e-mobility is provided in 100 stories by businesses, research centers and associations which, in their own sector, are contributing to the development of e-mobility. From designing to manufacturing vehicles, as well as components, batteries and charging infrastructures: Italy is at the forefront of the sustainable mobility revolution.

This year, in cooperation with FCA, the Symbola Foundation and Enel have collected the experiences of 100 leading players in the Italian e-mobility sector, and shared them on the occasion of the third edition of “**100 Italian E-Mobility Stories 2020**”, which was presented today by **Ermete Realacci**, President of the Symbola Foundation; **Francesco Starace**, CEO and General Manager of Enel; **Francesco Venturini**, CEO of Enel X; **Pietro Gorlier**, Chief Operating Officer EMEA of FCA; **Roberto Di Stefano**, Head of EMEA e-Mobility FCA, also attended by **Alessandra Todde**, Undersecretary for Economic Development. Also taking part in the event were **Livia Cevolini**, CEO of Energica Motor Company, **Silvio Angori** of Pininfarina, **Silvia Bodoardo** of the Polytechnic University of Turin, **Francesco Paolo Ausiello** of ART-ER and **Massimo Panzeri** of Atala. The event was moderated by **Francesca Grimaldi**, Tg1 journalist and newsreader.

*“The 100 stories of businesses, associations and research centers are examples of Italian excellence in the field of electric mobility,” said **Ermete Realacci, President of the Symbola Foundation**, “and show that Italy is already playing an active role in the future of mobility. Symbola and Enel, in cooperation with FCA, have painted the picture of an industry that also tells us that our country has the resources to overcome the crisis. We need to work together – with the support of the best possible technological, institutional, political, social and cultural resources, as stated in the Assisi Manifesto – towards a more people-oriented economy and society, which must therefore be more future-oriented, more aware of the climate crisis, fairer, resilient and competitive. This is the strategy to overcome the crisis caused by the pandemic: in fact, sustainability and the fight against*



climate change are the key to restarting the economy, projecting it into a new future.”

“The focus of these stories is on Italy, which plays a prominent role in the transition process towards sustainable mobility: 100 stories of ideas, technologies and projects implemented with passion and determination, which offer significant economic opportunities and contribute to the development of the automotive sector and of our country as a whole,” stated Francesco Starace, CEO and General Manager of Enel. “The fact that the world’s population is increasingly concentrated in large urban areas forces us all to rethink our lifestyles. This inevitably entails sustainable mobility, both public and private, which is not harmful to the environment and is effectively and clearly becoming increasingly electric.”

“Our e-Mobility,” explained Pietro Gorlier, Chief Operating Officer of FCA, “is being constantly developed and is becoming increasingly complex. Many agreements have been made to offer solutions that make life easier for the people who will buy and use our electric or hybrid cars. Electric cars need to be designed and incorporated into a more comprehensive eco-system: to make sure everyone has access to them, we need to have a public and private charging infrastructure in place, with appropriate energy costs, dedicated parking spaces, simplified management of public land for installing charging stations, measures to support demand and, last but not least, a plan to modernize the industry. The Italian electrified vehicle market is definitely growing (the number of vehicles emitting 0 to 60 g/km of CO2 has increased from 1% in 2019 to 3.5% in the first months of 2020), but still has limited penetration, partly due to the previously mentioned system constraints.”

Mobility is entering a new, more sustainable and efficient era. Despite the current difficult economic situation, investments are being made in this sector by automotive manufacturers in Europe as part of the Green Deal, which will be one of the main approaches to restarting the economy. Considering the evolution of technology, the need to reduce the impacts and effects of conventional mobility on human health in the world’s largest cities, the growing number of policies, and the huge investments that are being made by automotive manufacturers, we are optimistic enough to say that we are at a turning point for electric mobility. The fact that electric cars and electric scooters became part of the National Statistics Institute’s basket in early 2020 is further proof that these technologies are now part of everyday life. Over the last few years, Italians have gradually seen an increase in the number of charging stations available as well as in the number of hybrid and electric cars on the roads, but especially of e-bikes and electric scooters, which have become an integral part of our urban landscape. This transition is described in 100 stories told by companies, universities, research centers and third- sector companies representing the entire e-mobility industry. These include major design studios, committed to redefining the shape and style of future vehicles, component manufacturers who are now expected to lighten the weight of vehicles by using new materials (such as light alloys, aluminum and titanium instead of steel), and vehicle manufacturers, also small ones, for the various forms of mobility that have emerged up to now, primarily car sharing.

Electric cars are quickly becoming popular worldwide

At present, there are more than 7 million electric passenger or freight vehicles in the world (there were 1.5 million in 2016), including more than 3 million in China and nearly 2 million in Europe, with Norway leading the way (320,000 electric cars on the roads measured against a population of only 5 million). In the first quarter of the year, although the total number of car registrations in Europe decreased significantly, electric and hybrid cars were not affected by the market downturn. A total of 228,210 electric cars (ECV=BEV+PHEV) were registered (+81.7% compared to the first quarter of 2019) and 310,308 hybrid cars (HEV, mild-full hybrid) (+49%). As for Italy, in the same period, hybrid car sales – almost half (48%) of the alternatively-powered vehicles market – exceeded those of gas cars (40.5%), which historically have been higher in the domestic market.



Italy can be at the forefront

As described in this report, Italy can play a key role in this new market, since it can rely on a wide range of skills and technologies throughout the industry: from automotive manufacturers to e-bike manufacturers (in 2019, once again, Italy was the leading e-bike manufacturer and exporter in Europe) and light vehicles, including electric scooters and buses. Components are the beating heart of this industry, in which Italian companies create, prototype and manufacture engines, stators, brakes, electronics and components, as well as the body and battery packs, with a dedicated Battery Hub for assembly in Turin. Designers all over the world are also being called upon to rethink new forms of electric mobility. In addition, more advanced forms of mobility are now available such as sharing services, multi-utility companies, charging solutions, related apps and communication, and studies conducted by associations supporting the industry. Therefore, this system encompasses a wealth of expertise which, in Italy, is spread across the whole country, concentrating in some of the major cities such as Turin, the Motor Valley in Emilia, the Brescia district, and the automotive hub in Abruzzo.

Electric cars outperform internal combustion cars

When considering the entire cycle from the well to the wheel, electric cars have 60% lower emissions than an internal combustion vehicle (based on the average CO₂ emissions of internal combustion vehicles and the energy mix in EU countries).

This is an advantage which, over time, will be further improved thanks to the rapid decarbonization of the energy sector and the gradual increase in the share of renewables in the global generation mix (1/3 of the energy supplied in Italy is already produced from renewable sources). Now that batteries are no longer used to power electric vehicles, they will be increasingly used both as energy accumulators (for example, for photovoltaic panels) and for recovering precious chemical elements (such as lithium, nickel and cobalt) that will be reused with a circular economy approach. As we can see from the “100 Italian E-Mobility Stories 2020”, our businesses and research centers are well prepared to face the challenge of new mobility. Electric cars embrace innovation from other sectors, starting with the electrical grid, focusing especially on engine efficiency, battery durability, the electrical retrofit of conventional cars, and the recovery of materials with a circular economy approach.

Here is the list of the 100 stories told:

1000 Miglia, ACI Vallelunga, Alkè, alpitronic, ANFIA, Angelantoni Test Technologies, Archimede Energia, ART-ER, Askoll, Atala, Atena, Atop, Be Charge, Benevelli, Bettery, Bitron, Bonfiglioli, Brembo, Cecomp, CIVES, CNR, Cobat, COMAU, Corrente, Dallara, Daze Technology, Dufenco Energia, E_GAP, E-Shock, Elettricità Futura, Emoby, ENEA, ENEL X, Energica Motor Company, eProInn, Estrima, Euro Group, Euromobility, FAAM, Ferrari, Fiat Chrysler Automobiles, Fimer, FIVE, Fondazione Bruno Kessler, GaiaGo, Gewiss, GFG Style, GoVolt, Gruppo A2A, Gruppo Gnutti Carlo, Gruppo Hera, IED - Istituto Europeo di Design, IIT, Iren, Italmatch Chemicals, Iveco, JRC - Joint Research Centre ISPRA, Kaitek, Kyoto Club, L.M. Gianetti, Legambiente, Loccioni, Marposs, Maserati, Me Scooter, Meg Impianti, MiMoto Smart Mobility, MOTUS-E, Neogy, NITO - Nuova Industria Torinese, No.Do, Oddino Impianti, OMR Holding, Piaggio, Pininfarina, Podium Advanced Technologies, Polytechnic University of Milan, Polytechnic University of Turin, Privè, Rampini Carlo, Route220, RSE, Scame Parre, SicilybyCar, Sitael, STMicroelectronics, Targa Telematics, Taumat, Tazzari, Tecnomatic, Terna, The European House – Ambrosetti, University of L'Aquila, University of Cassino and Southern Lazio, University of Genoa, University of Modena and Reggio Emilia, University of Padua, University of Bologna, Vaielettrico, and Zed Milano.

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