**“Arena del Futuro”: wireless charging ready for commercial development**

*Brescia, 10th June 2022.*  The transition towards decarbonization in the mobility sector is happening quickly. The experimental “Arena del Futuro” along the A35 Brebemi motorway, is already considering the development of specific national and international strategic infrastructures projects.

Today, the Chairman of A35 Brebemi Francesco Bettoni together with all project partners, in the presence of the Minister of the Italian Republic Mariastella Gelmini, were in Chiari (Bs) to officially unveil the inductive recharging technology for electric vehicles known as DWPT (Dynamic Wireless Power Transfer), which has been tested in different parts of the world. The Italian pilot project coordinated by A35 Brebemi, a company owned by Aleatica which is the global transportation infrastructure operator with a presence in Europe and Latin America that focuses on sustainable and innovative mobility solutions, is the most advanced of its kind and involves organizations that are reference points in each sector of competence, including: ABB, Electreon, IVECO, IVECO BUS, Mapei, Pizzarotti, Politecnico di Milano, Prysmian, Stellantis, TIM, FIAMM Energy Technology, Università Roma Tre, Università di Parma, Vigili del Fuoco and Ministry of the Interior - Polizia Stradale. This technology makes it possible for EV (electric vehicles) to recharge their batteries while travelling in dedicated lanes. This innovative system of coils positioned under the asphalt transfers energy directly to the vehicles (cars, trucks and buses). A "zero emissions" mobility system, which includes different elements studied by the industrial excellences involved to interact with each other, such as: asphalt, control units, cables, electric vehicles and 5G connectivity.

Just a few weeks ago, experts working for the MIMS (Ministry of Infrastructure and Sustainable Mobility in Italy) presented a document entitled “Decarbonizing Transport: Scientific Evidence and Policy Proposals”, within the area of competence of STEMI (Structures for the ecological transition of mobility and infrastructure; STEMI was recently created by the Ministry to establish specific policies for the sector). The document recognizes that wireless charging technology is a possible solution that would help achieve pre-set objectives, particularly in light of current discussions related to the Fit for 55 package presented by the European Commission to implement the Green Deal strategy.

As a result of the testing that has been done and that is still underway, particularly as part of the Italian project “Arena del Futuro,” the results confirm that DWPT brings extraordinary advantages. As electric vehicles push the transportation sector towards decarbonization, despite critical issues related to battery lifespans and size, induction charging can contribute to a transition towards sustainable mobility models that further improve the user experience.

Research shows, as well, the many advantages of inductive charging technology: greater energy efficiency of vehicles due to the ability to charge on roads; a reduction in vehicle battery volume without impacting the load capacity for people and goods; an increased average lifespan for batteries due to the fact that charging peaks can be avoided by charging during the day at regular intervals and a better overall quality of travel, optimizing time with the combination of different recharging systems. All these goals are also achievable thanks to the innovative technologies offered by 5G and AI-based application solutions, which will facilitate the exchange of information between the vehicle and management platforms, increasing road safety and travel efficiency.

DWPT technology, in its dynamic and static inductive versions, has already attracted potential interest for commercial development in Italy and abroad. The versatility of the technology is a primary reason because in addition to being useful on roads and motorways, it is also suitable when combined within other infrastructures like harbours, airports and parking lots.

The “Arena del Futuro” project is a prime example of collaborative innovation for zero emission mobility for both people and goods.

[**Media Kit Link**](https://www.brebemi.it/arena-del-futuro/)

**Profile of project partners**

**A35 Brebemi-Aleatica motorway**

*The A35 Brebemi-Aleatica is the direct motorway link between Brescia and Milan, the fastest and safest route between the two cities. Active since 23 July 2014, the infrastructure extends 62.1 km to which the Castegnato toll booth and the ramps for interconnection with the A4 motorway have been added. The motorway can be reached from the city of Brescia via the A4 motorway (taking the exit ramp after Brescia Ovest in the direction of the A35 Milan-Linate), the Tangenziale Sud of Brescia and the SP19 or using the new A21 (Corda Molle). There are six toll booths on the motorway: Chiari Ovest, Calcio, Romano di Lombardia, Bariano, Caravaggio and Treviglio. After passing the last toll booth at Treviglio, you enter the A58 Tangenziale Est Esterna Milano (TEEM), which allows the A35 Brebemi to reach the A1 at Melegnano, the A4 at Agrate, Linate and the Milan Metropolitan Area via two junctions, on the right, Pozzuolo Martesana and on the left, Liscate, which exit respectively onto the SP103 Cassanese and the SP14 Rivoltana. A35 Brebemi has received important international awards, in the US and the UK, as the best infrastructure project financing and the best European project bond.*

*Aleatica is a leading global operator and developer of transportation assets headquartered in Madrid with annual revenues of c. €810m and ca 3,000 employees worldwide. The company currently manages 20 concessions - 16 highways, 2 ports, 1 light railway line and 1 airport - across seven countries in Europe and Latin America (Spain, Italy, UK, Mexico, Colombia, Peru and Chile). Aleatica is wholly owned by  IFM Global Infrastructure Fund, which is advised by IFM Investors, a global institutional fund with c. EUR 181 billion under management as of March 31, 2022*.

**ABB**

***ABB****(ABBN: SIX Swiss Ex) is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels. With a history of excellence stretching back more than 130 years, ABB’s success is driven by about 105,000 talented employees in over 100 countries.* [*www.abb.com*](http://www.abb.com)

***ABB’s Electrification Business Area*** *is a global leader in electrical products and solutions, operating in more than 100 countries, with over 200 manufacturing sites. Our 50,000+ employees are dedicated to transforming how people live, connect and work by delivering safe, smart and sustainable electrification solutions. We are shaping the future trends of electrification, differentiating through technological and digital innovation while delivering an outstanding experience through operational excellence for our customers across utilities, industry, buildings, infrastructure and mobility.*[*go.abb/electrification*](https://new.abb.com/about/our-businesses/electrification)

**Electreon***ElectReon is a global leader in wireless charging technology for a full range of Electric Vehicles (EVs) and has developed a range of solutions to support charging in any mode - parked, slow-moving and driving at speed. The company accelerates the world's transition to electric mobility by leveraging existing road infrastructure and its proprietary wireless charging technology to eliminate range anxiety, lower total costs of EV ownership and reduce battery capacity - making it one of the most environmentally sustainable, scalable and compelling charging solutions available today. For cities and fleet operators, ElectReon offers a shared, invisible "Charging as a Service" platform enabling cost effective electrification of public, commercial and autonomous fleets with minimal batteries and smooth and continuous operation.*

**FIAMM**

*FIAMM Energy Technology is a multinational company engaged in the production and distribution of batteries for automotive and industrial use. It was established following the separation of the automotive and industrial lead-acid battery business from the FIAMM Group. In order to be close to its customers' needs, FIAMM Energy Technology has numerous sales and technical offices (including Italy, Germany, Great Britain, Slovakia, France, Spain, Dubai, USA, Singapore, Malaysia and China) and a widespread network of importers and distributors, and operates with a staff of one thousand people. For more information on FIAMM, please visit:* [*www.fiamm.com*](http://www.fiamm.com)

**IVECO**

*IVECO is a brand of Iveco Group N.V. (MI: IVG). IVECO designs, manufactures and markets a wide range of light, medium and heavy commercial vehicles, off-road trucks, and vehicles for applications such as off-road missions.*

*The brand’s wide range of products include the Daily, a vehicle that covers the 3.3 – 7.2 ton vehicle weight segment, the Eurocargo from 6 – 19 tons and, in the heavy segment above 16 tons, the IVECO WAY range with the on-road IVECO S-WAY, the off-road IVECO T-WAY and the IVECO X-WAY for light off-road missions. In addition, the IVECO Astra brand builds off-road trucks, rigid and articulated dumpers as well as special vehicles.*

*IVECO employs close to 21,000 individuals globally. It manages production sites in 7 countries throughout Europe, Asia, Africa, Oceania and Latin America where it produces vehicles featuring the latest advanced technologies. 4,200 sales and service outlets in over 160 countries guarantee technical support wherever an IVECO vehicle is at work.*

*For further information about IVECO:*[*www.iveco.com*](http://www.iveco.com)

**IVECO BUS**

*IVECO BUS is a brand of Iveco Group N.V. (MI: IVG)*

*A major player in the field of public transport, and among the leading bus and coach manufacturers in Europe, IVECO BUS designs, manufactures and markets a broad range of vehicles that meets all the needs of public and private operators:*

*- school, intercity and tourism coaches;*

*- standard and articulated city buses, including BRT dedicated versions; city midibuses*

*- minibuses for all passenger transport missions.*

*IVECO BUS benefits from a strong expertise in alternative energies vehicles and is now capable of offering a complete range running on compressed natural gas – fully compatible with biomethane – and in the electromobility field, to suit every kind of transport need. Thus, IVECO BUS positions itself as a reference partner to face the numerous challenges of sustainable mobility.*

*IVECO BUS employs over 6,000 people across four production units, in Annonay, France, Vysoké Myto, Czech Republic, Brescia, Italy and in Rorthais, France with its electromobility center of excellence.*

*The extensive IVECO BUS and IVECO service network guarantees assistance around the world wherever an Iveco Bus vehicle is at work.*

*For further information about IVECO BUS:* [*www.ivecobus.com*](http://www.ivecobus.com)

**Mapei**

*Founded in 1937 in Milan, Mapei is one of the world’s leading producers of chemical products for use in the building industry and has taken part in the construction of the most important architectural works and infrastructure projects at a global level. With 91 subsidiaries located in 57 countries and 84 production facilities operating in 35 countries, the Group has around 11.000 employees around the world. In 2020, Gruppo Mapei registered a consolidated turnover of 2.8 billion Euros. The foundations for the success of the company are specialisation, internationalisation, research & development and sustainability.* [www.mapei.com](http://www.mapei.com)

**Politecnico di Milano**

*The Politecnico s a scientific-technological university that prepares engineers, architects and designers. The University has always focused on the quality and innovation of its teaching and research, developing a fruitful relationship with the world of business and manufacturing by means of experimental research and technological transfer. Increasingly linked to didactics, research is a priority commitment that allows the Politecnico di Milano to achieve high quality results at an international level and to ensure dialogue between the university and the world of business. Research also constitutes a path parallel to that of cooperation and alliances with the industrial system.*

*Familiarity with their prospective world of work is a vital requirement for the preparation of students. Being able to relate to the needs of the manufacturing and industrial world and public administration, helps research to follow new paths and deal with the need for constant rapid innovation. Its alliance with the industrial world, in many cases promoted by Fondazione Politecnico and by consortia to which the Politecnico belongs, enables the university to fuel the industries typical of the districts it operates in and stimulate their development.*

*The challenge being met today projects this tradition with strong local roots out beyond the borders of Italy, in a relationship being developed first and foremost on a European level with the objective of contributing to the creation of a “single market” for professional preparation. The Politecnico is part of several research and training projects, in collaboration with the most qualified European and international universities, from North America to Southeast Asia and Eastern Europe. Today, the push to internationalise sees the Politecnico di Milano part of the European and world network of leading technical universities and it offers many exchange programmes, double degrees and a variety of study courses taught entirely in English.*

**Pizzarotti**
*Founded in 1910 in Parma, IMPRESA PIZZAROTTI & C. S.p.A . is Italy's second largest construction company. The company operates in 15 countries worldwide, mainly with high rating and low risk. The company, which has always been a leader in the construction of civil works, road, motorway and railway infrastructures, as well as healthcare and residential building projects, is increasing its investments in R&D and developing innovative solutions in the field of sustainable mobility, asset management, energy efficiency and urban regeneration. The Pizzarotti Group has a workforce of about 3,500 employees and a turnover of about EUR 1.2 billion.*

**Prysmian**

*Prysmian Group is the global leader in the energy and telecom cable systems industry. With almost 140 years’ experience, a turnover of more than 10 billion euro, about 28,000 employees in over 50 countries and 104 production plants, the group boasts a solid presence on technologically advanced markets and delivers the widest range of products, services, technologies and knowhow. It manufactures underground and submarine cables for power transmission and distribution, special cables for applications in different industries and medium and low voltage cables for the construction and infrastructure sector. It also produces telecom cables and accessories for voice, video and data transmission, with a comprehensive range of optical fibres, optical and copper cables and connectivity systems. Prysmian is a public company, listed on the Italian Stock Exchange in the FTSE MIB index.*

**Stellantis**

*Stellantis N.V. (NYSE / MTA / Euronext Paris: STLA) is one of the world's leading automakers and a mobility provider. Its storied and iconic brands embody the passion of their visionary founders and today’s customers in their innovative products and services, including Abarth, Alfa Romeo, Chrysler, Citroën, Dodge, DS Automobiles, Fiat, Jeep®, Lancia, Maserati, Opel, Peugeot, Ram, Vauxhall, Free2move and Leasys. Powered by our diversity, we lead the way the world moves – aspiring to become the greatest sustainable mobility tech company, not the biggest, while creating added value for all stakeholders as well as the communities in which it operates. For more information, visit* [*www.stellantis.com*](http://www.stellantis.com)*.*

**TIM**

*and products for communications and entertainment, placing itself at the forefront of digital technologies.*

***TIM*** *addresses its offer to individuals, businesses and public administrations, as well as to the wholesale market, and makes use of specialised digital companies that create solutions, also in partnership with leading groups:****Noovle****is TIM's cloud company,* ***Olivetti****is the digital hub focusing on the development of IoT solutions,* ***Telsy****is the cybersecurity company, and* ***Sparkle****builds and provides international infrastructure and services.* ***Kena*** *is the Group's second mobile telephony brand, while* ***TIMVision*** *produces and distributes entertainment content.  In Brazil,* ***TIM Brasil****is one of the main players in the South American telecommunications market and a leader in 4G coverage. In developing its business, the group has adopted a sustainability strategy based on the objectives of climate strategy, the circular economy, digital growth and gender equality and aims to become****carbon neutral in 2030*** *and achieve* ***zero net emissions by 2040****. It also supports projects of high social interest via****TIM Foundation****.* [**gruppotim.it**](https://www.gruppotim.it/it.html)

**Roma Tre University**

*Founded in 1992, Roma Tre is one of the youngest Italian universities. Its ‘youth’ is also a strength that has been and continues to be a forceful driver for its rapid, dynamic growth, which sees the university now able to boast some 34,000 students from all over Italy. Its 13 departments offer 76 degree courses, including three-year bachelor’s, five-year master’s and five or six-year integrated master’s degrees, 24 research doctorates and 43 post-graduate courses.*

*The many strengths on which the prestige of its large student and scientific community is based include the consistency of its courses accompanied by attention to new methodologies and communication languages; its openness towards the international community thanks to the Erasmus programme, numerous double and joint degrees and important international research; the recognised “Excellence” of 4 departments in particular (Law, Engineering, Mathematics and Physics, and Science) and its commitment to issues of environmental sustainability and eco-sustainable design.*

*Roma Tre’s founding values include the promotion and organisation of international research, higher education and the development and dissemination of knowledge, environmental protection, international solidarity, gender equality, and the recognition and motivation of merit. The university’s teaching and research constantly interact across disciplines to address a global world and thus promote the updating and enrichment of knowledge, and combine with third-stream activities as a vehicle for technological transfer and local development. The international dimension is a strategic element for the university, which, among others, adheres to the inspirational principles and instruments of the Magna Charta Universitatum and to the European Research and Higher Education Area, embracing its principles and tools.*

**Parma University**

*Parma University is a state university with a millenary history, having been founded during the 11th century, and its primary activities are education, research and third stream, namely the transferral of knowledge to the community. Today it has over 30,000 students and approximately 1,700 members of teaching, research and technical-admin staff.*

*Its many student services, attention to quality education, innovation, research and the needs of the labour market make it one of the most important and well-known universities in Europe.*

*Its complete range of 96 courses include three-year bachelor’s, five-year master’s and five or six-year integrated master’s degrees, doctorates, specialisation schools and advanced specialisation courses.*

*Internationally relevant scientific research is carried out at the university and excellences include discoveries regarding mirror neurons in the neuroscience sphere, research in the field of information engineering that led to the conception of autonomous (driverless) vehicles, and research in the fields of mathematics and food.*

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