



Le circuit « Arena del Futuro » démontre le potentiel de la recharge par induction dynamique pour les véhicules électriques

- **Construit par A35 Brebemi en collaboration avec Stellantis et d'autres partenaires, le circuit « Arena del Futuro » (« Arena of the Future ») teste sur le terrain le système révolutionnaire de recharge électrique par induction dynamique**
- **Les essais menés avec la Nouvelle Fiat 500 montrent que la technologie de transfert d'énergie sans fil par induction (DWPT) permet de simplifier la mobilité électrique pour les clients en supprimant l'anxiété liée à l'autonomie tout en soutenant la décarbonation et la durabilité environnementale**
- **Les résultats indiquent que le système DWPT permet à un véhicule électrique tel que la Nouvelle 500 de rouler à une vitesse élevée sans consommer l'énergie stockée dans sa batterie**
- **L'engagement de Stellantis envers des solutions de mobilité de pointe s'inscrit dans le cadre de son Plan Stratégique Dare Forward 2030**

AMSTERDAM, le 10 juin 2022 – Après plusieurs mois de tests sur le circuit « Arena del Futuro », Stellantis et ses partenaires sur le projet ont démontré aujourd'hui à Chiari, en Italie, [la capacité du système DWPT \(Dynamic Wireless Power Transfer\) à recharger « sans fil » les véhicules électriques](#) circulant sur des routes dédiées et spécialement équipées.

Le DWPT est un système innovant dans le secteur automobile basé sur des boucles placées sous l'asphalte qui transmettent l'énergie directement aux voitures, camions et bus, leur évitant ainsi de devoir s'arrêter aux stations pour recharger leurs batteries. Cette technologie est adaptable à tous les véhicules équipés d'un « récepteur » spécial qui

transfère l'énergie provenant de l'infrastructure routière directement au moteur électrique, prolongeant l'autonomie tout en conservant la charge de la batterie du véhicule.

Le [projet pilote mené par Stellantis](#) et chacun des partenaires impliqués est coordonné par A35 Brebemi, une société détenue par le gestionnaire mondial d'infrastructures de transport Aleatica, qui axe ses efforts sur l'apport de solutions de mobilité innovantes et durables.

« Dare Forward 2030, notre Plan Stratégique à long terme, repose sur l'idée d'offrir des solutions de mobilité de pointe à tous, et ce projet représente l'essence-même de notre objectif en tant qu'entreprise », déclare Anne-Lise Richard, Head of Global e-Mobility Business Unit, Stellantis. « Notre collaboration avec ces partenaires exceptionnels nous a permis de démontrer que la technologie de recharge par induction peut alimenter notre stratégie d'électrification pour l'avenir. Ces projets communs passionnants contribuent à nos efforts visant à rallonger la durée de vie des batteries, baisser l'anxiété liée à l'autonomie, améliorer le rendement énergétique, réduire la taille des batteries, obtenir des performances exceptionnelles et diminuer le poids et le coût global. »

Les travaux à « Arena del Futuro » montrent qu'un véhicule électrique tel que la [Nouvelle Fiat 500](#) ; équipée pour tester le système, peut rouler sur autoroute à une vitesse élevée sans consommer l'énergie stockée dans sa batterie. Les tests montrent que l'efficacité du flux énergétique passant de l'asphalte à la voiture est comparable à l'efficacité standard des stations de recharge rapide, ce qui évite au conducteur de devoir s'arrêter pour recharger son véhicule. D'autre part, les mesures de l'intensité du champ magnétique prouvent que celui-ci n'a aucun impact sur le conducteur, ses passagers.

Lors de l'événement, une [Maserati Grecale Folgore](#) a été mise à l'honneur afin d'annoncer la participation prochaine de Maserati au projet. Le terme « Folgore » identifiera les versions 100 % électriques de Maserati, qui compte électrifier l'ensemble de ses modèles à l'horizon 2025. Équipé pour le test, le véhicule roulera sur le circuit « Arena del Futuro » afin de collecter des données et fournir une analyse détaillée des performances.

Le circuit « Arena del Futuro » est alimenté en courant continu, ce qui offre de nombreux avantages aussi concrets qu'importants, à savoir :

- la réduction des pertes de puissance dans la transmission de l'énergie ;
- la garantie d'une intégration directe avec les sources d'énergie renouvelable sans avoir à convertir le courant continu en courant alternatif ;

- l'utilisation de câbles plus fins que pour la distribution du courant alternatif, avec des avantages évidents en termes d'intégration, de poids et de pollution harmonique ; et
- l'utilisation de câbles en aluminium pour la distribution du courant, plus faciles à trouver avec des coûts deux fois moins élevés que le cuivre, mais aussi plus légers et plus faciles à recycler dans un modèle d'économie circulaire.

Le DWPT est l'une des principales technologies mises en œuvre pour simplifier la mobilité électrique pour les clients et répondre de façon immédiate et concrète au besoin de décarbonisation et de durabilité environnementale dans le secteur de la mobilité. Selon le Time Magazine, le système de recharge par induction sur route du circuit « Arena del Futuro » se classe parmi les 100 inventions les plus importantes de l'année 2021.

Tout ceci est rendu possible grâce aux technologies innovantes offertes par la 5G, l'IoT (Internet des objets) et les applications basées sur l'IA, qui facilitent l'échange d'informations entre le véhicule et la plateforme de gestion du système, pour une sécurité routière maximale et une plus grande efficacité lors des déplacements. Le transfert d'énergie inductif du DWPT signifie qu'il n'y a pas de câbles exposés, ce qui garantit la sécurité de la surface de la route pour les personnes qui y marchent.

Cette technologie suscite l'intérêt pour un développement commercial à l'échelle mondiale en raison de la polyvalence de ses systèmes de recharge par induction dynamique et statique. Outre son utilité sur les routes et les autoroutes, elle peut également être combinée à d'autres infrastructures comme les ports, les parkings ou les aéroports.

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À propos de Stellantis

Stellantis N.V. (NYSE / MTA / Euronext Paris : STLA) fait partie des principaux constructeurs automobiles et fournisseurs de services de mobilité internationaux. Abarth, Alfa Romeo, Chrysler, Citroën, Dodge, DS Automobiles, Fiat, Jeep®, Lancia, Maserati, Opel, Peugeot, Ram, Vauxhall, Free2move et Leasys : emblématiques et chargées d'histoire, nos marques insufflent la passion des visionnaires qui les ont fondées et celle de nos clients actuels au cœur de leurs produits et services avant-gardistes. Forts de notre diversité, nous façonnons la mobilité de demain. Notre objectif : devenir la plus grande société de mobilité high-tech durable, en termes de qualité et non de taille, tout en créant encore plus de valeur pour l'ensemble de nos partenaires et des communautés au sein desquelles nous opérons. Pour en savoir plus, www.stellantis.com.



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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

ABB is a world leader in electric vehicle infrastructure, offering the full range of charging and electrification solutions for electric cars, electric and hybrid buses, vans, trucks, ships and railways. ABB entered the e-mobility market back in 2010, and today has sold more than 460,000 electric vehicle chargers across more than 88 markets.

ABB is the title partner in the ABB FIA Formula E World Championship, an international racing series for fully electric single-seater racecars. It brings together ABB, a global leader in electric vehicle fast-charging with the world's first fully electric international motorsport class, who have a shared commitment to drive progress towards a more sustainable future. The ABB FIA Formula E World Championship is more than a race, it enables us to push the boundaries of technology, which can be transferred from the race track to real-world situations, helping to preserve resources and enable a low-carbon society.

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

IVECO

IVECO is a brand of CNH Industrial N.V., a global leader in the capital goods industry, listed on the New York Stock Exchange (NYSE: CNHI) and on the Mercato Telematico Azionario, organised and managed by Italian Stock Exchange (MI: CNHI). IVECO designs, builds and markets a wide range of light, medium and heavy commercial vehicles and quarry/construction vehicles.

The wide product range includes the Daily, a vehicle covering 3.3 to 7.2 tonnes of total weight on the ground, the Eurocargo, from 6 to 19 tonnes, for the heavy segment over 16 tonnes, the Trakker (dedicated to off-road activities) and the IVECO WAY range with the IVECO S-WAY version for on-road missions and the IVECO X-WAY for light off-road missions. It also manufactures quarry-construction vehicles and special vehicles under the IVECO Astra brand.

IVECO employs around 21,000 people and produces vehicles equipped with the most advanced technologies in 7 countries around the world, in Europe, Asia, Africa, Oceania and Latin America. 4,200 sales and service outlets in more than 160 countries provide technical support wherever there is an IVECO vehicle at work.

For more information on IVECO: www.iveco.com

For more information on CNH Industrial: www.cnhindustrial.com

IVECO BUS

IVECO BUS is a brand of CNH Industrial N.V., a world leader in capital goods listed on the New York Stock Exchange and the Italian Stock Exchange in Milan.

A major player in public transport and one of the leading bus manufacturers in Europe, IVECO BUS designs, manufactures and markets a wide range of vehicles to meet all the needs of public and private operators:

- school, intercity and tourist buses;
- standard and articulated city buses, including BRT versions;
- minibuses for all passenger transport missions.

IVECO BUS has extensive experience in alternative energy vehicles and is now able to offer a complete range of vehicles in terms of both compressed natural gas - fully compatible with biomethane - and electromobility, to meet all types of transport needs.

Therefore IVECO BUS is an ideal partner to tackle the many challenges of sustainable mobility.

IVECO BUS employs over 5,000 people in three production units, in Annonay and Rorthais, France, and in Vysoké Myto, Czech Republic. In Italy it is operational at the Brescia plant, where Daily Minibuses are made.

The broad IVECO BUS and IVECO service network guarantees worldwide assistance wherever an IVECO BUS vehicle is at work.

Mapei

Founded in Milan in 1937, **Mapei** is a world leader in the production of chemicals for the building industry and it has contributed to the construction of the most important examples of architecture and infrastructure on a global level. With 90 subsidiaries in 57 countries and 88 production facilities in 36 different nations, the group employs more than 10,500 people worldwide. In 2019, the Mapei Group posted a consolidated turnover of 2.8 billion euro. The company's success is based on specialisation, internationalisation, R&D, and sustainability. www.mapei.it

Politecnico di Milano

The **Politecnico** is 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

Impresa Pizzarotti & C. S.p.A. was founded in 1910 as a sole proprietorship by Gino Pizzarotti and, since then, it has evolved continually thanks to the entrepreneurial spirit that has distinguished four generations of the Pizzarotti family.

Relentless research into innovation and technological excellence are the cornerstones on which the family has built and continues to grow the group's success story. Since the late fifties, it has consolidated its presence in the building sector, making its name as one of the most important and best qualified Italian general contractors thanks to the realisation of large public works for both state bodies and major private Italian companies. Its commitment and ability to deliver widely diverse projects have also led to renown on foreign markets, where it started to work in the seventies, and it is today recognised as a benchmark in terms of knowhow and construction capacity.

Impresa Pizzarotti & C. S.p.A. realises large-scale projects and projects, having developed diversified competences in various sectors in years of experience. Its range of services include design, construction and also management in concession of works such as transport infrastructures, motorways, railways, tunnels, bridges, dams, hydraulic structures, real estate, hotels, hospitals, prefabs and renovation work, all carried out to fully respect and protect the environment.

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.

TIM

TIM is the leading group in Italy and Brazil in the ICT sector. It develops fixed, mobile and cloud infrastructures and data centres and offers services and products for communications and entertainment, placing itself at the forefront of digital technologies

The Group uses specialised factories that offer integrated digital solutions for citizens, businesses and public administrations, also in partnership with groups of primary importance: Noovle is TIM's cloud company, Olivetti is its digital hub that focuses on the development of solutions for the Internet of Things, Telsy operates in the cybersecurity

sector, and Sparkle creates and provides infrastructure and international services. In Brazil, TIM Brasil is one of the main players in the South American communications market and leader in 4G coverage. The Group has championed environmental protection and social inclusion objectives while developing its business with the aim of achieving a tangible and relevant impact and becoming carbon neutral in 2030. Its Operation Digital Renaissance-the first large free school on the internet-promotes the dissemination of digital skills useful for the development of Italy, while Fondazione TIM supports projects of great social interest. **gruppotim.it**

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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