

Press Release



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Expansion of the charging infrastructure for electromobility

EVBox Group to use polycarbonate from Covestro from mass-balanced biowaste

Further reduction of the carbon footprint in sight

The expansion of electromobility is progressing, and the need for charging stations is growing accordingly. The European Green Deal fixes a target of one million public charging points to be available by 2025. They will be needed to power the 13 million electric cars then expected on European roads.

[Covestro](#) is driving the transition to electromobility with innovative material solutions and has been cooperating for more than ten years with [EVBox Group](#), a leading Dutch full-service provider for electric car charging. By using Makrolon® RE, the ISCC PLUS-certified mass-balanced polycarbonate, both companies aim to achieve an even more sustainable solution.

The objective is to set a new standard for charging infrastructure: while electric vehicles no longer require fossil fuels for power, both partners are now looking to conserve resources for charging stations as well and equip them with more sustainable materials. Joint developments are just beginning, but ISCC PLUS-certified Makrolon® RE has already cleared one important hurdle: it meets the technical requirements of charging station manufacturers.

Keeping an eye on the life cycle

"It is important to us to think about the entire life cycle of charging stations right from their development and design," explains Wijnand Diemer, Senior Director, Product Management at EVBox Group. "These include circular materials as source materials, a modular design that facilitates repairs, and last but not least, the remanufacturing of components and entire charging stations. We are pleased to have Covestro as a competent and trustworthy partner for this."



A partner that will soon support EVBox with even more sustainable materials. Makrolon® RE series plastics come from recycled waste and residues. Like the standard products, they are recyclable, and also durable. Some products are even carbon-neutral from cradle to factory gate, thanks to the introduction of raw materials derived from mass-balanced biowaste and residues, and renewable energy into the production process. This should significantly reduce their carbon footprint compared with standard types.

Dr. Niklas Meine from Marketing Electrical & Electronics in the Engineering Plastics segment, EMEA, at Covestro, adds: “In order to meet the technical requirements, special material properties are essential. These include impact resistance, color fastness, and surface quality as characteristic features that polycarbonates have to meet in very different climatic regions, including outdoors. The key factor here is durability. Our Makrolon® RE series offers outstanding technical properties based on alternative raw materials, thus allowing for significant CO₂ emission savings as early as in the production of charging stations.”

About Covestro:

With sales of EUR 10.7 billion in 2020, Covestro is among the world’s largest polymer companies. Business activities are focused on the manufacture of high-tech polymer materials and the development of innovative, sustainable solutions for products used in many areas of everyday life. In doing so, Covestro is becoming fully circular. Its main customers are the automotive and transport industries, the construction industry, the furniture and wood processing industries, and the electrical, electronics, and household appliance industries. Other sectors include sports and leisure, cosmetics, healthcare and the chemical industry itself. As of the end of 2020, Covestro produces at 33 sites worldwide and employs around 16,500 people (converted to full-time positions).

About EVBox:

Founded in 2010, EVBox Group empowers forward-thinking businesses to build a sustainable future by providing flexible and scalable electric vehicle charging solutions. With its extensive portfolio of residential, commercial and ultra-fast EVBox charging stations, as well as scalable charging management software engineered by Everon, EVBox Group ensures that electric mobility is accessible to everyone. EVBox Group is a leader in R&D, with facilities across Europe and North America developing groundbreaking electric vehicle charging technology. With offices across Europe and strong foundations in dozens of markets, EVBox Group is working to shape a sustainable future of transportation.

Forward-looking statements



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