

NANTERRE (FRANCE)

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RENAULT EMBLÈME DEMO CAR SHOWCASES SOME OF FORVIA'S INNOVATIVE AND SUSTAINABLE TECHNOLOGIES

FORVIA, a global leader in automotive technologies and sustainable mobility solutions, is equipping Renault Emblème demo car with sustainable technologies, highlighting a collaborative effort to boost decarbonized mobility.

FORVIA brings its expertise in the fields of car interiors including sustainable materials, exterior lighting and electronics and helps meet the challenge of reducing CO₂e emissions by 90% over the entire vehicle life cycle.

FORVIA's participation in Emblème project is concrete proof of its commitment to advancing the automotive industry towards more sustainable mobility.

FORVIA Interiors demonstrates 70% reduction in CO₂ emissions

FORVIA Interiors supplies the dashboard, door panels and central console of Renault Emblème demo car and demonstrates a 70% reduction in CO₂ emissions in 2035 compared to 2019 reference and with equal performance. This reduction is based on the vehicle's life cycle analysis (LCA) methodology.

To achieve this objective, FORVIA Interiors has activated all the decarbonization levers: the use of green energy in its factories, optimized and lightweight designs and architectures, virtuous production and assembly processes facilitating modularity and recycling, as well as the integration of new sustainable materials developed by MATERI'ACT, combining recycled and bio-sourced content with low carbon impact.

The optimization of assembly processes has made it possible to reduce the environmental impact. The assembly is mainly based on screws and clips, for example no welding or glue is used on the door panels, thus facilitating disassembly, modernization and recycling at the end of life. In addition, no paint has been applied to the parts, as aesthetic and bio-sourced materials have been favored, eliminating the chemical emissions associated with traditional methods.

PRESS

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About FORVIA

FORVIA, a global automotive technology supplier, comprises the complementary technology and industrial strengths of Faurecia and HELLA. With over 150,000 people, including more than 15,000 R&D engineers across 40+ countries, FORVIA provides a unique and comprehensive approach to the automotive challenges of today and tomorrow. Composed of 6 business groups and a strong IP portfolio of over 13,000 patents, FORVIA is focused on becoming the preferred innovation and integration partner for OEMs worldwide. In 2024, the Group achieved a consolidated revenue of 27 billion euros. FORVIA SE is listed on the Euronext Paris market under the FRVIA mnemonic code and is a component of the CAC SBT 1.5° indice. FORVIA aims to be a change maker committed to foreseeing and making the mobility transformation happen. www.forvia.com

As for materials, recycled and bio-sourced plastics are widespread, as a new standard, for structural parts as well as appearance parts. Surface materials are designed to be easily replaced and recycled without changing the underlying support. In addition, an innovative injection process also makes it possible to reduce the amount of material used, producing lighter parts and thus reducing the ecological footprint.

Finally, the adoption of the "Shy Tech" trend in the interior of the vehicle represents a step forward in sustainable design. The discreet under-skin buttons, replacing traditional controls, not only offer a cleaner and more minimalist design, but also contribute to the overall lightness of the vehicle.

FORVIA HELLA demonstrates feasibility of Sustainable Headlamp concept for the first time

The headlamps that FORVIA HELLA has developed for Renault Emblème are the first to implement key elements of the pioneering Sustainable Headlamp concept, thus underlining its overall feasibility. FORVIA HELLA presented this to the global public for the first time in January of this year at the Consumer Electronics Show (CES) in Las Vegas, USA, thereby presenting an approach to combining sustainability, high performance and functionality in a cost-neutral way.

For example, the headlamps of Renault Emblème can reduce CO2 emissions by around half over the entire product life cycle compared to conventional headlamps [of a conventional electric vehicle on the market]. This is achieved on the one hand by the adaptive control of the light intensity: When driving in inner-city areas, the headlamps automatically regulate down, while when driving on the motorway or on country roads, for example, the power is increased again. This can reduce the energy consumption of the headlights by around half. On the other hand, they require significantly less weight and installation space, among other things due to the practical use of a Fresnel lens for the first time. This is just three millimeters thick and requires about 80 percent less material compared to a conventional lens while maintaining the same high performance. Overall, the weight of the sustainable headlight in Renault Emblème can be reduced by around 20 percent; in addition, it already consists of over 70 percent recycled or bio-based materials.

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Discreet integration to enhance design

FORVIA is also providing Renault Emblème's hidden display. Its minimalist design approach is echoed in the central screen module, which illustrates FORVIA's ability to integrate multiple systems (hidden screen and controls, ventilation, backlit transparent buttons) into a uniquely designed and functionally efficient module.

FORVIA was able to offer the best concealed screen in its class by exploiting LCD technology, high-performance optical films and creating a customized 3D-decorated protective glass. This respected Emblème's sustainable aspect, while optimizing energy consumption and screen content legibility.

Renault Emblème demo car embodies the future of sustainable automotive solutions, with FORVIA at the forefront, setting new standards for reducing environmental impact across multiple components.

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