

Scm Group, a partner in the Onda Solare project: a new solar car with exceptional features

While Emilia 3 continues to reap success, the new model is being prepared to take part in major competitions worldwide

Hanover, 22 May - SCM Group is a partner in the **Onda Solare** project, which aims to create an extraordinarily innovative solar car in less than two years.

This ambitious project stems from the recent experience gained with the **Emilia 3** solar-powered electric car. A vehicle with exceptional features, which has already gained prestigious results in competitions reserved for solar vehicles. Emilia 3 started its adventure when it represented Italy in the World Solar Challenge, which took place in Australia in 2013. It is a sort of world championship for solar vehicles, with the most prestigious universities in the world taking part (**MIT, Berkeley, Cambridge, Stanford, Deft, Tokai and Toronto**). In 2016, **Emilia 3** obtained significant results, such as winning the **Moroccan Solar Race Challenge**, second place in the **Carrera Solar Atacama** (Chile) and third place in the **European Solar Challenge**, a 24-hour race on the Zolder circuit in Belgium. Here, the car of the **University of Bologna**, made together with important sponsors like the Emilia-Romagna Region, has won third place, beating one of the **Tesla Model S** cars taking part. **This year, Emilia 3 has just won the “Albi Eco Race 2017”**.

The glorious career of Emilia 3 is about to end and there is a new car, which will be presented at Maranello in the spring of 2018 with the aim of taking part in the American Solar Challenge in the following year. Compared to Emilia 3, the new car has a completely different design, which is the result of an international tender that led to the creation of a “cruiser” with a capacity of 4 people and technical features of the highest level. The new solar vehicle will have a 5 square metre surface covered by solar panels, will weigh 230 kg and will reach 120 km/h with an autonomy of 500 km.

Alma Mater Studiorum is at the forefront of the Onda Solare project, with the partnership of **SCM Group**, aided by the Emilia Romagna Region and other local organisations. In particular, **CRIF and CSR laboratories of SCM Group** are using **SCM Accord 40 fx and Accord 50 fxm** machining centres to make machined polyurethane patterns, which will be used to create the whole vehicle structure from a carbon fibre composite material.

The new car, which will start its first road tests in a few months, promises great achievements, both in terms of performance and as a concrete example of the future of applied research.

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