

Scm Group and the University of Bologna take up the “solar” challenge together

Presented at the Ferrari Museum in Maranello was the Emilia 4, the 4-seater solar car now ready to represent Europe at the American Solar Challenge

A real 4-seater car, but with an extra “turbo motor”: a solar fuelling and latest-generation high-tech features. The **Emilia 4** was presented on Monday, 11 June, at the Ferrari Museum in Maranello. **The new car was designed and built by the University of Bologna with Scm Group as part of the “Onda Solare” (Solar Wave) project.** The Italian giant, the world-leading producer of industrial machinery and components, has taken part in this project as technological partner, featuring its **CMS Advanced Materials**, the Group's division known for its excellence in processing composites and aluminium for the automotive and aerospace industries, among others. Indeed, CMS machines are currently used by some of the world's largest carmakers (FCA, Toyota, Tesla, BMW, Jaguar, Land Rover, etc.) to create their high-precision models and components, as well as by the leading Formula1 teams to create their racecars and carbon fibre parts.

In general, the 5-axis CMS machining centres are used in the production of such advanced products as America's Cup sailboats, jet planes that zip across our skies, space shuttles and the most modern airliners.

“Thanks to CMS Advanced Materials, our most advanced brand when it comes to processing composites, we have been able to offer machining centres that help create moulds that are then used for producing carbon fibre bodies,” **said Gian Luca Fariselli, Communication Director at Scm Group.** “It is the task of industry to promote research, not only for business purposes, but also, and above all, for the common good. This has led us to support for a couple of years the University of Bologna project through our Research Centre, offering our engineers' and technicians' know-how and thus raising the participating students' knowledge level.”

“We took up the Emilia 4 challenge,” **added Lucio Giavazzi, CMS Advanced Materials Division Manager,** “following our constant and strong interest in research and development. An interest that is demonstrated by the high number of patents registered by CMS and the continuing introduction of new technologies and applications. CMS has always been able to offer technical solutions designed specifically for latest generation applications and materials,” concluded Giavazzi.

Emilia 4 is a product of an industrial research project financed by the Emilia-Romagna Region with European Regional Development Funds (POR FESR). In this project, the University of Bologna has been accompanied by various local institutions and companies, including, besides Scm Group, the CINECA Supercomputing Centre.

The development of this futuristic car was based on the use of a series of high-tech features: functional and aerodynamic shape; advanced materials such as carbon fibre laminates and sandwich panels and titanium tubing; innovative solutions for the car suspension and car mechanics in general; electric motors; control electronic systems and a solar panel with a higher than normal efficiency.

Now that the design and production challenge has been won, the solar car is ready to travel to the United States. In the stars-and-stripes land the car will face its first real test in mid-July: the American Solar Challenge, a 3,000 km multi-leg race, from Nebraska to Oregon along American countryside roads. Emilia 4 will run along the famous *Oregon Trail*, one of the main emigrant trails

in the North American continent, used by settlers, cowboys, miners and businessmen who travelled west. More than twenty teams are to take part in this race, representing the most prestigious universities in the world, with the University of Bologna and its Solar Wave project the only team to represent Europe.

Scm Group is a technological world leader in processing a wide variety of materials: wood, plastic, glass, stone, metal, and industrial components. The Group companies, operating throughout the world, are reliable partners of leading companies in various market sectors, including the furniture, construction, automotive, aerospace, ship-building and plastic processing industries.

Scm Group coordinates, supports and develops a system of industrial excellence in 3 large, highly specialised production centres employing more than 3,600 workers and operating in all five continents.

Press Office: press@scmgroup.com

Communications Scm Group:

Alessandra Leardini – alessandra.leardini@scmgroup.com

tel. +39 0541 700230

mob. +39 344 3483015