



**innoptus
SOLAR TEAM**



**INNOVATE TODAY,
INSPIRE TOMORROW**



Material solutions advancing life

POWERING THE WORLD'S FASTEST SOLAR CAR

Sibelco helped a team of engineering students win gold at the Bridgestone World Solar Challenge 2023, supported the team in Australia in 2025, the Sasol Solar Challenge in September 2024 and the European ILumen Solar Challenge in 2024.

Today, the Innoptus Solar Team hopes to become the first-ever European team to secure the win in the American Solar Challenge. For over a year, they have transformed the Infinite Apollo, the teams' 11th solar car to adhere to the different US regulations.

The American Solar Challenge (ASC) is a multi-day, cross-country competition where collegiate teams design, build, and drive solar-powered vehicles across thousands of miles. This challenge tests not only engineering and energy efficiency but also strategy, teamwork, and endurance. The next edition of the race will start in the summer of 2026. The Innoptus Solar Team is proud to participate in this team for the first time ever in July 2026!

Sibelco signed a golden partnership agreement with the team to provide support and specialist materials expertise, helping the students to design and build Infinite – an innovative aerodynamic car sporting a futuristic fin, designed for speed and stability.

As a leading material solutions company Sibelco firmly committed to sustainability & innovation, this partnership with the solar team is a perfect fit. Several Sibelco minerals are found within some of Infinite Apollo's key components. Like high purity quartz from our Spruce Pine operations in the USA, which is used to make the semiconductors and solar cells that power the car's every move. And cristobalite, nepheline, barytes and feldspar, which help to create aerodynamic coatings that reduce weight and drag. Even Sibelco's silica flour can be used in the general car manufacturing industry to produce E-glass which goes into several body-parts to improve strength and resistance to impact. Or our low iron sands are used in solar applications when high light transmission is required. This project demonstrates the power of partnerships, and what can be achieved when our mineral businesses support the next generation of talent.

It is an honor for us that we can support the Innoptus Solar Team and contribute to the development of this unique solar car. We wish the team every success in the American Solar Challenge upcoming July 2026.

Proud sponsor,



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INFINITE APOLLO

THE 11TH BELGIAN SOLAR CAR

1 BULLET DESIGN
The Infinite Apollo's sleek, bullet-shaped design greatly reduces air resistance, resulting in lower energy consumption.

2 DOUBLE FIN
In addition to solar power, the car harnesses wind energy through a new double fin, boosting stability and speed in crosswinds. The double fin also increases the chance of catching the right wind to sail.

3 EFFICIENT SOLAR CELLS
For the new solar car, the team is using 6 m² of sustainable silicon solar cells, similar to those used on residential rooftops, but with a major upgrade: this year, with world-record efficiency, pushing the boundaries of what's possible in solar performance.

4 SELF-BUILT MOTOR
This year, the team fine-tuned and rebuilt their self-designed electric motor. The efficiency of the self-designed motor is an impressive 98%, which is higher than any other motor on the market.

5 BIOMIMICRY
Our car's design draws inspiration from nature, with a shark-like nose and bird-inspired rear wings to enhance aerodynamic performance.



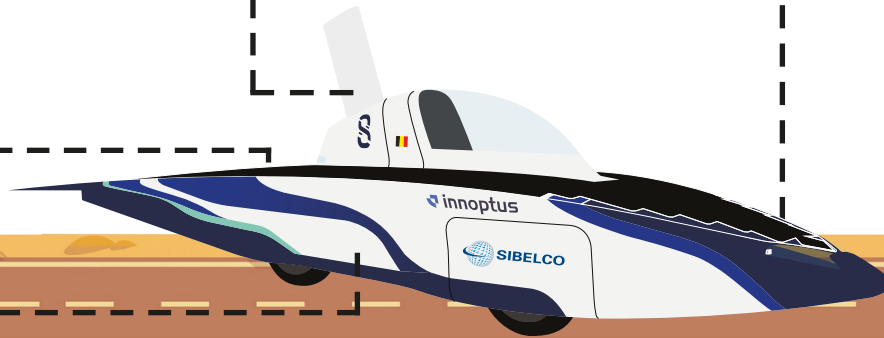
Our Sibelco materials and minerals are vital components in the renewable energy, Technology & Innovation and Sustainability of the Infinite solar car.



High Purity Quartz is used to make the semiconductors and solar cells that power the Infinite's every move. **Cristobalite, nepheline, barytes and feldspar** are Sibelco minerals which help to create aerodynamic coatings that reduce weight and drag.



Sibelco's **silica flour** can be used in the general car manufacturing industry to produce E-glass which goes into several body-parts to improve strength and resistance to impact, and our **low iron sands** are used in solar applications when high light transmission is required.



EVERYTHING WE DO IS GUIDED BY OUR PURPOSE:

Material solutions *advancing life*

We create materials that power progress. Our products help to build homes, cities and vehicles; to support the supply of renewable energy, food and clean water; to create technologies such as smartphone display screens, printed circuit boards and semiconductors. We do this within a robust sustainability framework, always balancing economic performance with environmental stewardship and social responsibility.



THE NEXT RACE

THE AMERICAN SOLAR CHALLENGE



American Solar Challenge (ASC) is a biennial solar car race across the U.S. where college teams design, build, and race solar-powered cars over thousands of miles on public roads. It tests engineering skill, teamwork, and endurance.



EXPLORING A NEW CONTINENT

For the first time ever, the Innoptus Solar Team is crossing the ocean to conquer **North America!** We've raced through Europe's winding roads, challenged Asia's innovation, embraced South America's passion, battled Africa's elements, and triumphed under Oceania's blazing sun. Now, **only one continent remains on our checklist** and we're ready to tick it off in style.