



As humanity grapples with climate change and rising sea levels, our collective imagination is more critical than ever. In light of this, bcomp presents the phenomenal work initiated by the students from Institut auf dem Rosenberg in St. Gallen and SAGA Space Architects. They've developed an extraordinary solution to address the environmental challenges we face: the 'Blue Nomad' floating habitat.



'Blue Nomad' is a solar-powered home designed for comfortable living on the ocean. It symbolises a future where we must explore and adapt to the changing earth's environment. Drawing inspiration from the first Polynesian nomadic settlements and equipped with solar panels for self-sustainability, the habitat promotes a vision of living and traveling on water.



bcomp is particularly excited about the project as the scaled model that was exhibited in London and Monaco prominently features their very own ampliTex™ flax fibres. A plan of building an actual prototype of the floating home is being developed by Institut auf dem Rosenberg and SAGA. It could be made from a structurally optimised weave of flax fibre, showcasing the future of organic and regenerative high-performance materials replacing conventional synthetic and fossil-based technologies. As a company,

bcomp is proud to provide sustainable material solutions, and seeing their flax fibres used in such an innovative and meaningful project is both humbling and inspiring.

'Blue Nomad' isn't just a solitary habitat, but a concept for a new kind of community. Imagined as modular blocks, these habitats can form larger communities and oceanic farms, allowing inhabitants to share resources while moving from one oceanic farm to the next. It's a striking vision of a future where the lines between land and water blur, and sustainability and community building lie at the heart of human settlements.



But this vision is not just theoretical. Plans are being made for a maiden voyage of 'Blue Nomad' across Europe, powered purely by solar energy, promoting ocean sustainability, climatology, and future nomadism.

This project serves as a powerful reminder of what can be achieved when education, innovative design, and sustainability are united. The 'Blue Nomad' represents the future we envision – a future where sustainable materials play a crucial role in safeguarding our planet.

The 'Blue Nomad' project was exhibited at the London Design Biennale 2023 as well as the Monaco Energy Boat Challenge where it was captivating visitors and garnering significant attention from the public.



Sustainable lightweighting with natural fibre composites

Bcomp is the leading solutions provider for natural fibre reinforcements in high performance applications from race to space.

The company started as a garage project in 2011 with a mission to create lightweight yet high performance skis. The bCores™ were launched and successfully adopted by some of the biggest names in freeride skiing. The founders, material science PhDs from Ecole Polytechnique Fédérale de Lausanne EPFL, used flax fibres to reinforce the balsa cores and improve shear stiffness. Impressed by the excellent mechanical properties of flax fibres, the development to create sustainable lightweighting solutions for the wider mobility markets started.

Today, Bcomp is a leader in natural fibre composites for sustainable lightweighting. Their solutions are found from sports and motorsports to automotive interiors, luxury sailing yachts, bridges and satellite panels.