Engage4BIO

LeväLinna – Runner-Up Project

The Project

Transforming Baltic Sea Algae into Sustainable Building Materials

- *Converts invasive algae (Cladophora Glomerata) into recyclable, bio-based composites*
- *Tackles marine degradation, eutrophication, and biodiversity loss in the Baltic Sea*
- *Material made from algae, calcium carbonate, and sodium alginate*
- *Key properties: biodegradable, insulating, fire-resistant, CO_2-absorbing*
- *Energy-efficient production: rinse, mix, mold*
- *Prototypes include Baltic-inspired tiles and ornaments*
- *Bridges cultural identity and material innovation*
- *Contributes to SDGs 11, 12, and 14*
- *A scalable model for circular, regenerative construction*

Team – Aalto University (ChemArts)

- **Jordan Danae Dornak** – Design student focused on sustainable materials & climate challenges
- **Karen Charlot-Wauquier** – Combines design and chemistry in experimental biomaterials
- **Yuki Yamamoto** – Specializes in eco-conscious design and regenerative practices

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> “Multi-stakeholder engagement to strengthen regional bioeconomy value-chains”

Consortium :

ZSI

WAGENINGEN UNIVERSITY & RESEARCH

APRE Agenzia per la Promozione della Ricerca Europea

bay Bay Zoltán Nonprofit Ltd. for Applied Research

eaea European Association for the Education of Adults

Moholy-Nagy művészeti egyetem university of art and design budapest

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