| Session | Start-ups/SMEs looking for Finance: Pre-seed/Angel/Seed |
|---|---|
| Title | Performance, Price and Planet: High-performance shielding materials without compromise |
| Company | EveryCarbon |
| Speaker | Sebastian Beblawy |
| TRL | TRL 4 - 7 |
| Keywords feedstock (max 2) | organic waste |
| Keywords technology (max 2) | brownfield biomanufacturing |
| Keywords End-Product (max 2) | performance polymers |

## Abstract:

Over 35 million EU buildings must be retrofitted by 2030 to meet modern energy efficiency standards with an estimated annual cost of €250 billion. Performance insulation materials are critical for achieving increased energy independence in the EU while protecting citizens from the effects of global climate change. Unfortunately, these materials are predominantly petrochemical-based and cannot simultaneously meet the performance, cost, energy efficiency, and carbon reduction requirements this massive retrofit demands. This forces builders, developers and material manufacturers to compromise between Performance, Price and the Planet.

EveryCarbon develops high-performance polymers derived from circular diols for high need performance insulation for the built environment. Our first product, ECOne, is an engineered polyester-based system designed for performance engineering applications in construction, automotive and electronic sectors. It combines strong thermal performance and improved mechanical properties with a reduced carbon footprint. EveryCarbon's production platform leverages existing brownfield waste infrastructure to transform mixed waste streams into drop-in monomers via precision fermentation. This novel process unlocks low cost feedstocks and merges it with a continuous biomanufacturing process that delivers up to an 85% reduction in CO2 emissions for the diol building blocks that form the basis for our ECOne resin.