

Corporate Innovation Challenge Template

Challenge Name: Biobased Phenolic monomers & polymers
Code Name: BIOECONOMYVENTURES-2022-OC2-ST_2
Challenge Domain: <ul style="list-style-type: none"> • Platform and Specialty Bio-based Chemicals • Bio-based Plastics and Materials
Description of the Corporate innovation Challenge
<p>We are looking for phenolic polymers and/or monomers that are preferably water soluble and are derived from renewable carbon sources such as bio-based, recycled, or CO2 capture. To date, these types of polymers are made by reacting fossil-based phenols with formaldehyde and result in the production of certain chemicals (e.g., bisphenols) which are coming under greater regulatory scrutiny. These polymers should have a relatively low molecular weight (preferably <5kDa) and have free phenolic groups. Alternatively, the Phenolic monomers should also have free phenolic groups and preferably a functionality that can be polymerized (e.g., but not limited to a double bond or an amine functionality).</p> <p>We are interested in finding partners that can produce either the polymers or the monomers, on preferably a pilot or even commercial scale.</p>
Expected results
<ul style="list-style-type: none"> • Develop and commercialize new biobased phenolic polymers &/or monomers. • Eliminate the production of by-products associated with traditional synthesis of phenolic resins. • Reduce the overall carbon footprint of phenolic resins.

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Types of Collaboration

1. Pilot running and product testing
2. R&D opportunity
3. Sales and purchase of products and services

Participation confirmation

I confirm Stahl's availability and participation in the BioeconomyVentures programme. This confirmation allows BioeconomyVentures the right to publicly disclose the company's name, challenge information, logo, and website for the purpose of dissemination and attracting new innovators to the programme.

Company Information

Company Name: Stahl Holdings B.V.

Challenge owner name and last name: Tim Kidd

Challenge owner email: Tim.Kidd@stahl.com

Company information: Stahl is driving the responsible chemistry of high-performance chemicals and coatings for flexible substrates. Our products enable sustainable living by adding functionality, durability and comfort to many different materials used in everyday life. Through our continuous focus on innovation and improving the environmental footprint, our unique service model and premium solutions add value to various industries ranging from automotive through to clothing and footwear.

At Stahl, we see our responsibility to participate in sustainable development as a duty to society and the environment, but also as an opportunity to do well by doing good. By embracing sustainable development, we aim to deliver value for all stakeholders, including our employees, customers, suppliers, partners, and society at large.

With our headquarters located in Waalwijk, the Netherlands, Stahl has around 1800 highly skilled employees having a global presence with R&D labs, manufacturing, and marketing & sales offices in the Americas, Europe, and Asia.

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