

FLASHPHOS GENERAL ASSEMBLY MEETING IN SPOLETO, ITALY, AT ITALMATCH CHEMICALS

FlashPhos, a project co-funded by the European Commission to drive the sustainable production of high-quality white phosphorus from sewage sludge, will hold its General Assembly Meeting in Spoleto, Italy, on May 10-11, 2023. The host of the meeting will be consortium member Italmatch Chemicals.

The FlashPhos project aims to demonstrate at a large scale a thermochemical process to sustainably produce high-quality white phosphorus (P₄) and other valuable raw materials using sewage sludge as input material. The project follows an economically and ecologically sound and climate-friendly circular economy approach, with all output materials being used in the European industry, some of them substituting critical or CO₂-relevant raw materials.

The FlashPhos consortium, coordinated by the University of Stuttgart, is a multi-disciplinary European team composed of large industrial companies, SMEs, NGOs, and academic institutions. The 17 partners are based in Austria, Germany, Belgium, Italy and Spain. During the four-year innovation action, the industrial FlashPhos process will be demonstrated in a pilot plant with a throughput of up to 250 kg/h dry sewage sludge.

"The FlashPhos process represents a major step towards achieving a circular economy in the European industry, transforming problematic materials like sewage sludge into high-quality white phosphorus and other valuable raw materials," said Matthias Rapf, Coordinator of the FlashPhos project and researcher at the University of Stuttgart. "All partners are working closely together to advance this groundbreaking technology and contribute to a more sustainable future for Europe and the world."

Now that the project is already quite advanced – the planning of the pilot plant is completed and its construction has begun and market scenarios have been investigated – all project partners will get together for their third General Assembly Meeting. The host of the meeting will be project partner Italmatch Chemicals, one of the world's most experienced companies in P₄ manufacturing technology. During the meeting, project partners will review the project's progress and visit Italmatch's Spoleto facilities, which is considered as historical pillar of Italian chemical industry, where numerous P₄-based products are being manufactured since the late 1920s.

"We are delighted to welcome our project partners to Spoleto and showcase our expertise in P₄ processing technology," said Carlos Galeano, FlashPhos project director at Italmatch. "The FlashPhos project is a game-changer for the industry, and we are proud to be part of this innovative and sustainable circular economy approach. Together, we are driving the transition towards a more sustainable and environmentally friendly future."



"Italmatch occupies a leading position in FlashPhos' project regarding Phosphorus' production technologies, respectively its market deployment", said Sergio Iorio, Chairman and Italmatch Group CEO. "We are proud to be part of the consortium, considering the strong focus the company is dedicating, through innovation and research, to sustainability and circularity, like the recent achievements by the company in chemicals for electrical batteries and in alternative energies demonstrate. We are also proud to host such event in a symbolic iconic place like the city of Spoleto, where Italmatch moved its first pace back in 1929, including conventional production of Phosphorus, and that today excel in innovative and ESG driven solutions like electrolytes for EV batteries and environmentally friendly flame retardants".

The first full-scale FlashPhos pilot plant in Europe will be built by 2025, and industrial-scale white phosphorus production will start together with an industrial consortium, expecting market introduction by 2028.

For further information contact

Matthias Rapf

FlashPhos Project Coordinator

University of Stuttgart, Institute for Sanitary Engineering, Water Quality and Solid Waste Management

matthias.rapf@iswa.uni-stuttgart.de

+49 711 685 65428

Caterina Michelotti

Media Relations

Italmatch Chemicals S.p.A.

c.michelotti@gmail.com

Mob.+39 334 6419410

Project Partners:

1. University of Stuttgart, Germany
2. Italmatch Chemicals SPA, Italy
3. Aufbereitung Recycling und Prüftechnik GmbH, Austria
4. A TEC Production and Services GmbH, Austria
5. INERCO Ingeniería, Tecnología y Consultoría SA, Spain
6. Graz University of Technology, Austria
7. InsPyro NV, Belgium
8. VDZ Technology gGmbH, Germany
9. Dyckerhoff GmbH, Germany
10. Herp Giessereitechnik GmbH, Germany
11. Unitherm Cemcon Feuerungsanlagen GmbH, Austria
12. Buss-SMS-Canzler GmbH, Germany
13. Goriup Feuerfest GmbH, Austria



14. ResourceFull, Belgium
15. Edlinger Alfred/Metallurgy & Inorganic Technology, Austria
16. Boehler Abfall GmbH, Austria
17. Steinbeis-Europa-Zentrum der Steinbeis Innovation gGmbH, Germany

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 958267.

This press release reflects only the author's view and the European Health and Digital Executive Agency (HaDEA) and the European Commission are not responsible for any use that may be made of the information it contains.

