

14th ERA-NET Bioenergy Joint Call / 4th add. call of BESTF3

VARESI – Valorisation of industrial residues for a sustainable industry

ABSTRACT:

After the European Union climate and energy package (“the three 20 targets”), the zero carbon economy in the European Union by 2050 was suggested in 2018-19 to reach the reduction of climate change. The proposal “VARESI” aiming to valorise industrial residues onsite the production plant and to integrate the energy vectors, mainly into the production process. To realise this target the consortium combines anaerobic treatment technologies, hydrothermal carbonisation and energetical process integration including exergy analysis. In addition to energy efficiency, water recovery plays an important role during the project. The project is completed by a techno-economic assessment. The focused industries are breweries, dairies, meat processing industry, pharmaceutical industry, pulp and paper industry and sugar industry.

PARTNERS:

- **AT:** University of Natural Resources and Life Sciences Vienna, BOKU, Institute of Environmental Biotechnology (UT) (coordinator); AAT – Abwasser- und Abfalltechnik GmbH; BOKU Institute of Chemical and Energy Engineering
- **CH:** ZHAW Zurich University of Applied Sciences, ICBT Institute for Chemistry and Biotechnology (ICBT) and Institute of Sustainable Development (ZHAW-INE)
- **DE:** ATRES

PROJECT DURATION: 01/2022 until 12/2024