

ESTAD Symposium REUSteel

31 August 2021, 08:30 – 12:00

Moderators: Sara Rosendahl and Hanna Granbom, Swerim

Reuse and recycling of residual materials in iron and steelmaking: analysis of relevant results, trends and perspectives

Project members

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Abstract

The steel sector is deeply committed to sustainable management of its residual materials, in order to reduce the natural resources exploitation, reduce the environmental impact of the steel sector, and to achieve the steel sector's "zero-waste" goal.

The ongoing project titled "Dissemination of results of the European projects dealing with reuse and recycling of by-products in the Steel sector (REUSteel)", funded by the Research Fund for Coal and Steel (RFCS), is mapping the research done in this area. The project aims at a

valorisation of the most important research results on residual materials reuse and recycling, both internally within the steel sector and in other industrial sectors. This is based on an integrated critical analysis of many finalized EU-funded projects, in order to promote results exploitation and increase the synergies with other industrial sectors. The analysis will allow to identify the most urgent needs and ambitions of the European steel sector and define a sequence of future research topics in this field. The project is coordinated by SSSA and other partners are Swerim, BFI, FEhS, RINA-CSM.

The symposium will start with a presentation of the concluded and ongoing research within the REUSteel project. This will be followed by an in-depth look at three topics identified within the dissemination project. The three topics are slag use, residual material use in BF and sinter plant, residual material use in EAF. The symposium will be concluded with an outlook about the future of residual materials within steel industry. In connection to all the presentations there will be time for questions and comments from the audience. During the symposium we are also looking for the opinions and feedback from the audience.

Program

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| 8.30-10.00 | Two presentations including time for questions. <ul style="list-style-type: none">• General presentation of the REUSteel project and the symposium – Valentina Colla (SSSA)• Research of use of slag from the steel industry – Agnieszka Morillon (FEhS) |
| 10.00-10.30 | Coffee break |
| 10.30-12.00 | Two presentations including time for questions followed by an outlook, together with the audience, on future use of and research on residual materials. <ul style="list-style-type: none">• Research of the use of sludge, dust, refractory, millscale, and other residual materials from the steel industry and external secondary raw material in the BF and Sinter – Roland Pietruck (BFI)• Research of the use of sludge, dust, refractory, millscale, and other residual materials from the steel industry and external secondary raw material in the EAF – Umberto Martini (CSM)• An outlook: How will the use of residual material change in the future? – Valentina Colla (SSSA) |