

InSGeP

INVESTIGATIONS OF SLAGS FROM NEXT GENERATION STEEL MAKING PROCESSES

SNEAKPEEK

Unlocking opportunities

Promising potential | Exploring the versatility of iron and steel making slag

Team spotlight

Leading the way | Introducing the project coordinator

Updates & Events

Breaking news | Latest findings and project activities

The InSGeP project, titled “Investigations of Slags from Next Generation Steel Making Processes”, is a European research initiative co-funded by the EU Research Fund for Coal and Steel. In the scope of the project, five steel plants, six research and technology organizations, and two plant manufacturers from Austria, Belgium, France, Germany, Italy, and Spain evaluate potential implications of future steel production on the ensuing slag.

TRANSFORMATION OF IRON AND STEEL MAKING

In recent years, there has been a growing emphasis on sustainable and environmentally friendly steel production in Europe and various efforts are underway to reduce carbon emissions, increase energy efficiency, and explore alternative technologies.

Due to the fact that some of these modifications will also affect the slag generated, it is imperative to identify viable slag utilization strategies.



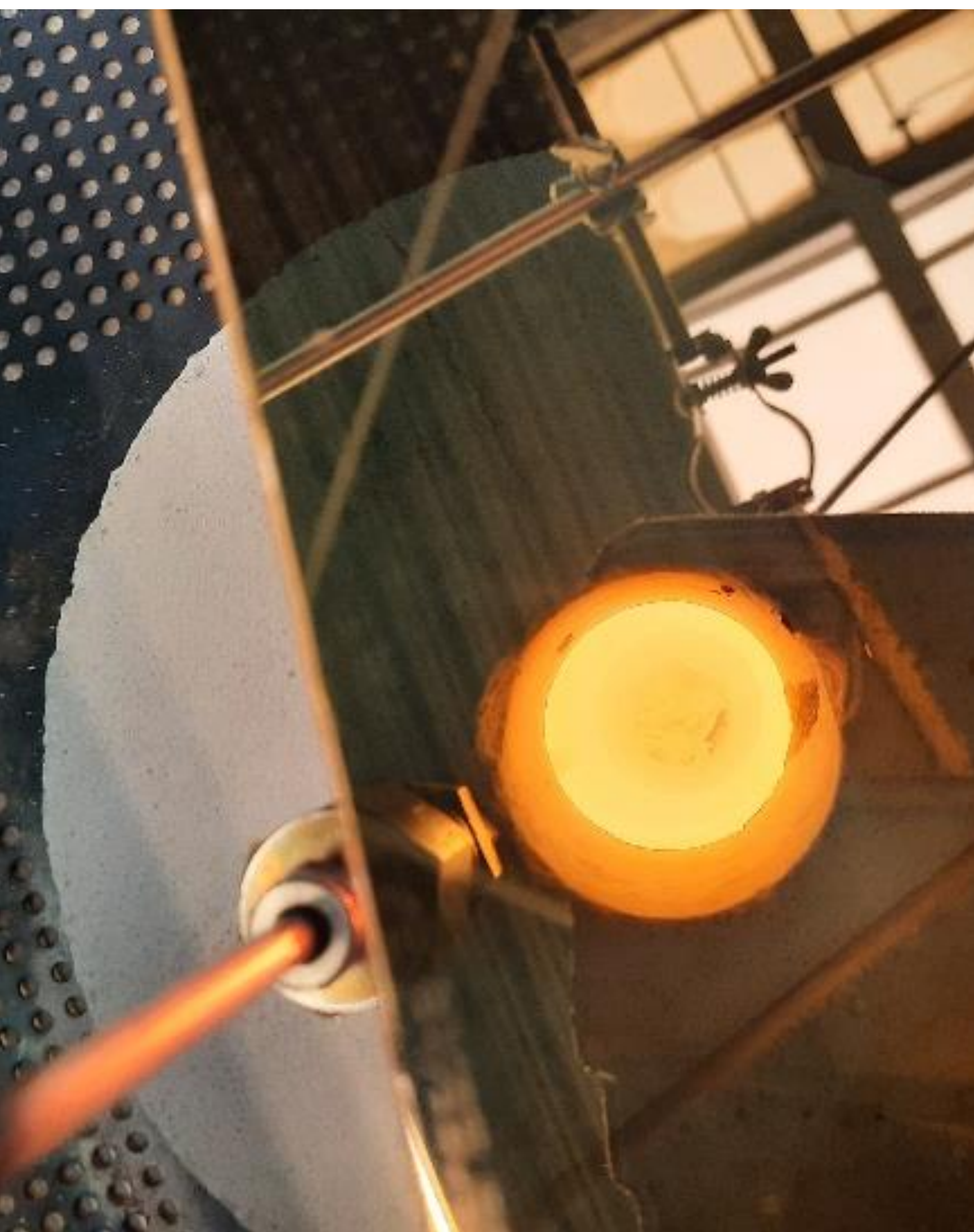


Photo credits: VDEh-Betriebsforschungsinstitut GmbH

BEYOND WASTE

FROM BY-PRODUCT TO RESOURCE

Historical use of slag underscores its importance as a versatile and sustainable material in various industries, from ancient civilizations to the present day. Currently, blast furnace slag is mostly utilized as a substitute in the cement and concrete production, while steelmaking slags are predominantly employed as a filler material in embankment construction.

The slag product market exhibits a dynamic and complex nature, driven by a broad spectrum of industrial sectors and evolving trends related to technological innovation, resource efficiency, and sustainability. As there are no uniform regulations in Europe as to slag utilization it is important to understand the legal framework in each country the slag is used in.

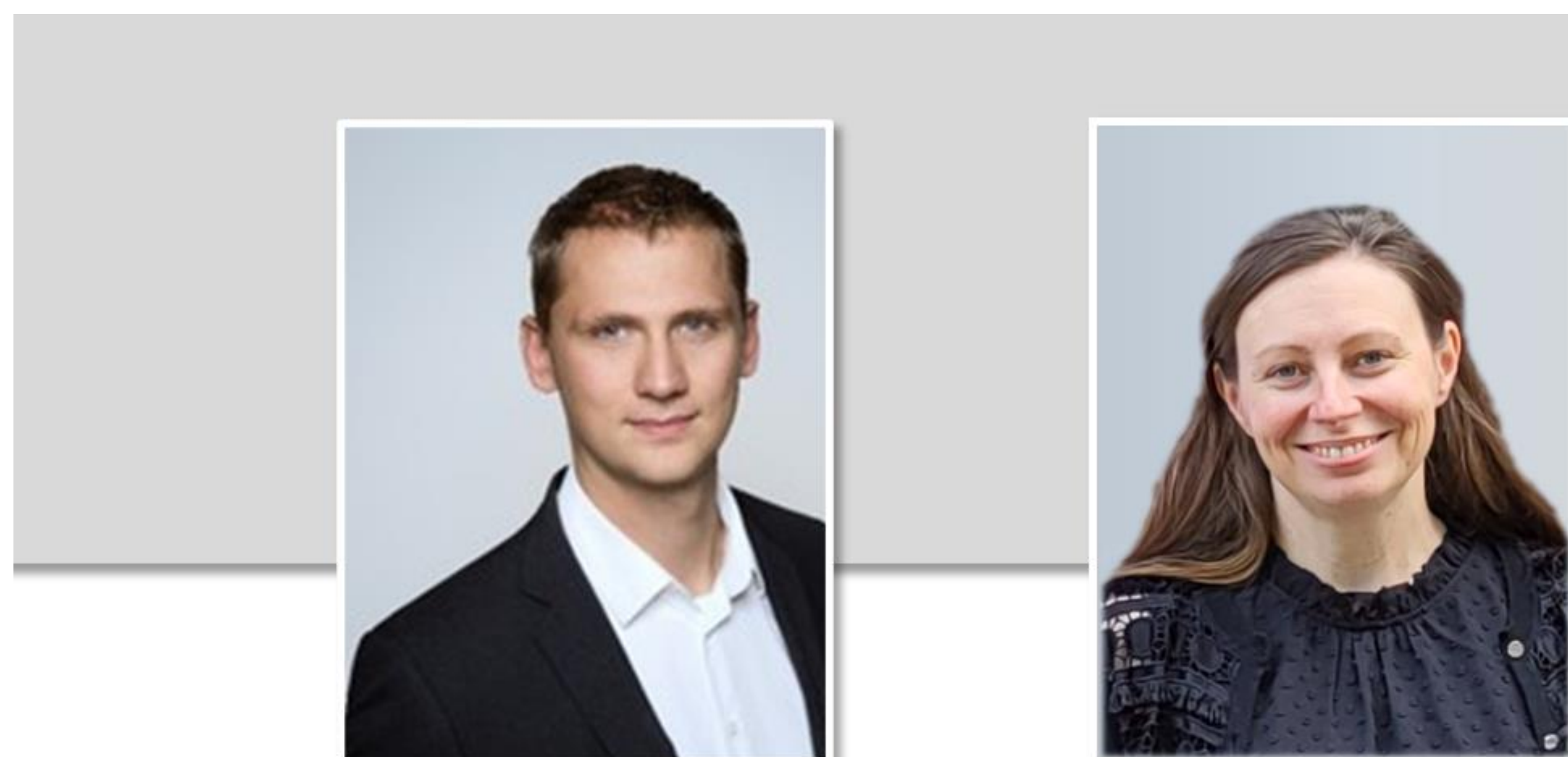
TEAM SPOTLIGHT

MEET OUR PROJECT COORDINATOR FEhS

FEhS-Institut für Baustoff-Forschung e.V., is a collaborative non-profit research organization supported by the German, Netherlands, Swiss, and Austrian steel industries. With over 60 years of experience, FEhS is dedicated to promoting and advancing the utilization of slags and residues from iron and steel production. The institute serves as a central hub for research, development, and the exploration of new applications for these products. FEhS operates in close collaboration with steel companies and other national and European organizations within the steel industry.

FEhS has state-of-the-art laboratories equipped with advanced analytical techniques and specialized characterization facilities. This infrastructure allows to conduct comprehensive investigations and analyses, enabling to explore the potential uses and properties of slags and steelmaking residues.

Getting interested? Then visit the website of our project coordinator: www.fehs.de



DAVID
ALGERMISSEN

AGNIESZKA
MORILLON



CONTINUING THE CONVERSATION

2nd IN-PERSON PROJECT MEETING IN LINZ

On January 24 and 25, 2024, the 2nd in-person project meeting was held at the premises of K1-MET in Linz, Austria. In addition, the project team was able to participate in a fascinating tour of the voestalpine Stahl GmbH slag processing facilities, which supplemented our discussions and provided interesting insights. We are excited to turn these discussions into concrete initiatives!



LATEST DEVELOPMENTS

MILESTONE MOMENTS

Dissemination activities



Project website and LinkedIn page online since September 2023
1st Newsletter was sent out in November 2023
Presentations at three conferences

Stakeholder survey



Execution of an online survey focusing on present situation, like market and technological trends, market barriers, drivers and future trends

Regulatory situation



Compilation of regulations for slag applications within the European Union
Determination of parameters for analysis

Slag samples



Collection and analysis of slag samples started

InSGeP Investigations of Slags from Next Generation Steel Making Processes

START DATE | 01-07-2023

PROJECT DURATION | 48 months

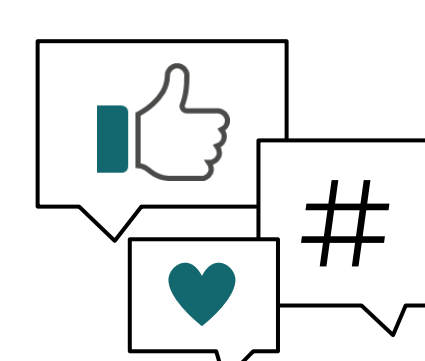
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