PURE SCRAP

PURITY IMPROVEMENT OF SCRAP METAL

Project information

Start date: 01.01.2023
Duration: 42 months
Type: Innovation Action
Call: HORIZON-CL4-2022-TWIN-TRANSITION-01
Coordinator: SWERIM AB
Contact: info@purescrap.eu

The PURESCRAP project is taking an ambitious, major step toward reducing impurities in post-consumer scrap prior to melting by applying highly efficient sensor stations in conjunction with improved scrap processing. The project thereby provides a contribution to the Strategic Research and Innovation Agenda (SRIA) of the Clean Steel Partnership (CSP) and to the achievement of the European Green Steel goals regarding circular economy as well as to the reduction of CO_2 emissions.

Interview with Jonas

Meet Jonas Petersson our project coordinator. He holds a PhD in Chemistry from Uppsala University with specialization in femtosecond time-resolved laser spectroscopy. Jonas shares his perspective as he talks about the PURESCRAP's pathway and his role as coordinator.

Where did the idea for this project came from?

The first idea for the PURESCRAP project was presented by Johannes Rieger at K1-MET on the ESTEP pitch event. Swerim then realised that our previous ambitions in scrap characterisation made a perfect match with the project objectives.

To read the full interview **Click here**

Meet the consortium

The project enables dynamic collaboration comprising diverse partners with distinct expertise. This innovative cooperation units a scrap recycler, end users, sensor technology specialists, process control experts, research organizations, and renowned universities. Each partner plays a pivotal role within the project and leverages their individual strengths to collectively drive progress. For a deeper insights into their specific tasks, simply click on the respective logo to uncover the extensive contributions the partner offers to this groundbreaking initiative.

Co-funded by the European Union

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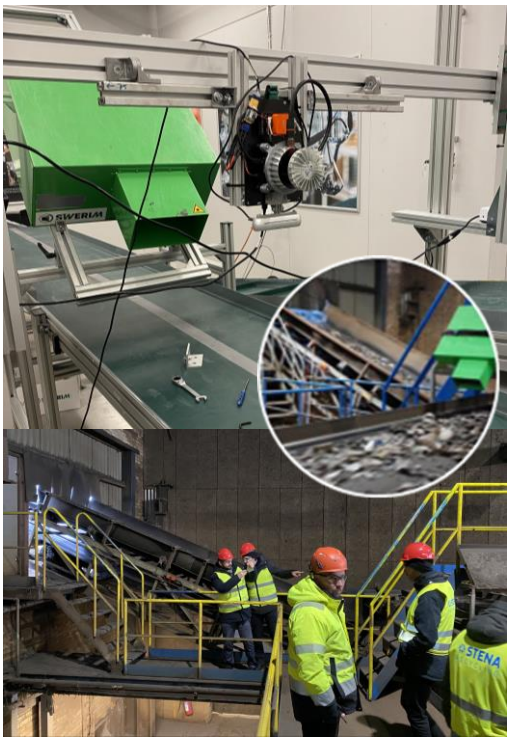
The Clean Steel Partnership



Status update to sensor development

The project is in its setting up phase where the sensor statins are under construction. The sensor stations will be used for optimising the scrap purification process and enable well characterized scrap for steel production. The implementation of the sensors have been re-designed and settled. Now the partners are adjusting each sensor design such that it best fits the targeted scrap streams (shredded and cut ferrous metal scrap). Alongside the technical development the market for the PURESCRAP scrap upgrading solutions is being analysed. Online surveys are distributed.

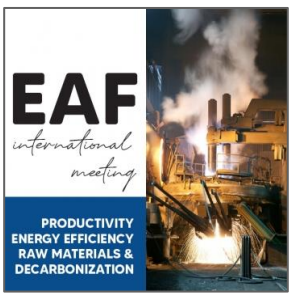
All in all, the project is moving forward as intended with its expected twists and turns. The first industrial demonstrations are planned for Q3 2024. We look forward to give a more substantial update of the technical results as soon as they are ready to be made public.

Recap to Pisa

The ESTEP Spring Dissemination Event 2023 took place in-person on 29 & 30 March at the Aula Magna of Scuola Superiore Sant'Anna (SSSA) in Pisa, Italy. The event brought together industry and science representatives who delivered engaging presentations on current research topics. These talks were followed by interesting discussions and a lively exchange. It was a great opportunity to catch up with project partners and connect with new people. In addition, we were given the opportunity to attend a guided tour of the city and to round off the evening at the celebration dinner for ESTEP's 5th birthday.

Upcoming events

Explore the upcoming events that offer a chance to connect with team members of the PURESCRAP project and gather additional information.



Check out our project website and follow us on LinkedIn

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