Transform industrial co-products into raw materials for the cement and construction sector.

Reduce use of primary resources by valorising secondary materials in another sector.

**KEY INSIGHTS**

- value waste streams
- reduce primary resources
- reduce CO₂ emissions
- create new markets

**CROSS-SECTOR COLLABORATION**

Process industries have a high potential to better valorise co-products such as ash, slag and sludge.

Cement industries have a growing demand for (secondary) raw materials.

**SUSTAINABILITY IMPACT**

**Wins for industry**

- for suppliers: reduction in waste
- for construction industry: reduction in raw materials

**Environmental gains**

- CO₂ emissions reduction in cement: 0.4 - 0.7 ton CO₂ saved/ton steel co-product use

**Wins for society**

- public health benefits due to emissions reduction
- improved business relations in regional clusters
- job creation and new skills development

---

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 679386
This work was supported by the Swiss State Secretariat for Education, Research and Innovation (SERI) under contract number 15.0217
REFERENCES

   https://www.spire2030.eu/epos

2. EPOS project D2.3 (Cement blueprint).
   https://www.spire2030.eu/epos


4. World Steel Association, Fact energy 2018 Energy use in the steel industry 2018


   BY-PRODUCTS AS A GREEN CONCRETE MATERIAL THROUGH S/S PROCESS: A REVIEW.

