

COMET CENTRE (K1)

K1-MET GMBH

RESEARCH PROGRAMME: K1-MET – COMPETENCE CENTER FOR EXCELLENT TECHNOLOGIES IN ADVANCED METALLURGICAL AND ENVIRONMENTAL PROCESS DEVELOPMENT

Main location: Linz (Upper Austria)

Other locations: Leoben (Styria)

Thematic area: Materials & Production, Energy & Environment



Thematic focuses

- Raw Materials and Recycling
- Metallurgical Processes
- Low Carbon Energy Systems
- Simulation and Analyses

Planned realisation and outcomes

K1-MET is a competence center for Excellent Technologies in Advanced Metallurgical and Environmental Process Development and is driven by the Austrian steel industry. The K1-MET metallurgical competence center is aligned with the strategic goals defined by the European Commission in the EU 2020 strategy. K1-MET is essential to the continuation of the prolonged successful track record of the Austrian steel production and processing industry, to make it more competitive, sustainable, and lead to economic growth. At the core of this vision, three main goals are identified:

- CO₂ efficient production of metals and intermediate components
- Cross-sectorial approach to radically improved production processes
- Leadership in solutions for more efficient and sustainable metallurgical processing and energy systems

History of establishment

2001: Start of the Knet MET competence network

2008: Start of the working group (ARGE) K1-MET

2015: Start of the 1st funding period of the competence center K1-MET GmbH

2019: Start of the 2nd funding period of the competence center K1-MET GmbH

COMET FACTSHEET

Selected company partners (max. 10):

1. Ebner Industrieofenbau GmbH
2. Fronius International GmbH
3. Linde Gas GmbH
4. Montanwerke Brixlegg AG
5. Primetals Technologies Austria GmbH
6. Prozess Optimal CAP
7. RHI Magnesita GmbH
8. SCHOLZ Austria GmbH
9. voestalpine Stahl Donawitz GmbH
10. voestalpine Stahl GmbH

Selected scientific partners (max. 5):

1. University of Applied Sciences - Upper Austria
2. Graz University of Technology
3. Johannes Kepler University Linz
4. Montanuniversität Leoben
5. TU Vienna

Selected international¹ partners (max. 5):

1. FEhS - Institut für Baustoff-Forschung e.V.
2. Technische Universität Bergakademie Freiberg
3. Novolipetsk Steel
4. LanzaTech Inc.
5. Lhoist Recherche et Développement SA

Duration: 01.07.2015 - 30.06.2023 (8 years)

Staff employed at the Centre: 63 FTE, thereof 57 scientists

Management: Thomas Bürgler, CEO
Johannes Schenk, CSO

Contact: K1-MET GmbH
Stahlstraße 14, 4020 Linz
+43 732 6989 75603
office@k1-met.com
www.k1-met.com

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¹ Partners with headquarters outside Austria