Why Saxony?

by Region

Saxony owns three Raw materials and Metallurgy related policies:

- Saxon Minerals Strategy
- Saxon Innovation Strategy
- Saxon Industry Strategy

by Infrastructure

Saxony shows a high agglomeration of metallurgical industry in secondary RM and restructuring towards Backward Integration with new mine developments including SLO

Several smelters Ni, Co, Cu, Zn, Pb, Ag, In

by commodities

By active cluster building:

GKZ, KIC EIT Raw Materials Co-Location Centre East, Intact mining administration (Supreme Mining Agency, Geological Survey, Mining Archive, Academia, Private Entrepreneurship)
Active Mining
stones, gravel, sand, clay

- gravel & sand
- hard rock
- other pit & quarry

Production (Mio. t):
- 1990: 50
- 1995: 60
- 2000: 70
- 2005: 80
- 2010: 90
- 2015: 100

Location: Zwickau-Planitz

Kaolintagebau Caminau (Caminauer Kaolinwerk GmbH)

Kiessand-Tagebau Lüßig
Synergies with MIREU
<table>
<thead>
<tr>
<th>Region and country</th>
<th>Raw Material Commodities in terms of EIP RM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alentejo PT</td>
<td>Cu, Zn, Ag, Sn, Au, U</td>
</tr>
<tr>
<td>Andalucia ES</td>
<td>Cu, Zn, Pb, Sn, Sr, Au, Ag, Fe, F, Ba, industrial minerals</td>
</tr>
<tr>
<td>Aragon ES</td>
<td>C, NaCl, KCl</td>
</tr>
<tr>
<td>Castilla y Leon ES</td>
<td>W, Mg, Fe, U, Cu, Pb, Zn, Au, industrial minerals</td>
</tr>
<tr>
<td>Cornwall UK</td>
<td>Sn, W, Li, In, industrial minerals</td>
</tr>
<tr>
<td>Czech Republic CZ</td>
<td>Li, W, U, Industrial minerals</td>
</tr>
<tr>
<td>Ireland IE</td>
<td>Zn, Pb, Cu, Au, Ag, Li, Sn, Ta, PGE, REE, Fe, industrial minerals</td>
</tr>
<tr>
<td>Kosice SR</td>
<td>Mg, Au, Cu, Fe</td>
</tr>
<tr>
<td>Lapland FI</td>
<td>Au, Cr, Ni, Cu, Co, PGM, industrial minerals, gemstones</td>
</tr>
<tr>
<td>Lower Silesia PL</td>
<td>Cu, Pb, Zn</td>
</tr>
<tr>
<td>Maramures RO</td>
<td>Pb, Zn, Cu, Au, Ag</td>
</tr>
<tr>
<td>Northern Karelia FI</td>
<td>Cu, Zn, Tlc, Dol, Au, Ag, Ni, Co, industrial minerals</td>
</tr>
<tr>
<td>Occitanie FR</td>
<td>W, industrial minerals</td>
</tr>
<tr>
<td>Saxony DE</td>
<td>Sn, W, Li, F, Ga, In, REE, industrial minerals</td>
</tr>
<tr>
<td>Sterea Ellada GR</td>
<td>Al, Ni, Cr, industrial minerals</td>
</tr>
<tr>
<td>Styria AT</td>
<td>Fe, industrial minerals</td>
</tr>
<tr>
<td>Västerbotten SE</td>
<td>Au, Zn, Cu, Ag, industrial minerals</td>
</tr>
</tbody>
</table>
SAXONY “actions and opportunities”

1. Closure of lignite mines – Saxony a region in transition
   Clustering, how to overcome bottlenecks of industrial and regional transition (consultation, expert exchange at all stakeholder levels); Saxon Resource Day 18.6.2019

2. Metallurgy (Saxony owns four smelters: Ni, Co, Cu, Zn, Pb, Ag, In)
   Enhancing metallurgical know-how in CE, → establishment of a European metallurgy hub; → HORIZON 2020 CICERONE (SRIA)

3. Internationalisation, market entry
   → Thematic networking and clustering (cluster the clusters) in R&D&I, CSA ; professionals for the resource sector

4. Giving the regions a voice in Brussels
   → the MIREU CoMMer, thematically, organisationally, strategically

5. Raising raw materials awareness
   GKZ WG „Akzeptanz“, Cross-European exchange, expert fora e.g. in CoMMer

   Determining raw materials and CE related European issues

7. Valorisation of Material Heritage and mine resumption
   Raw Materials exposition within the 2020 Saxon State Exhibition „Industry“; EU projects

8. Digitalization of extractive industries → crafts (COMPO project: digitalization in stonemasons; CNC technologies)

Saxony is uncovering its treasure
Project ROHSA 3 – Raw material data for Saxony

The new “Berggeschrey”
ROHSA 3 – the rush on raw materials

The state of Saxony is rich in natural resources. Higher world market prices for ores and spates have led to increased interest in Saxony raw materials.

The team of ROHSA 3 collects and publishes information on industrial minerals to improve the digital innovation of the mining sector. These data provide insights into deposits, which may optimize mining productivity. As a key project of the Saxony raw material strategy, ROHSA 3 supports the use and revaluation of known deposits. It is therefore of economic significance for potential mining investors.

www.rohsa.sachsen.de

Discovery of the treasure
ROHSA 3 – insights into the underground

Numerous data on Saxon raw materials are stored in different archives. The ROHSA 3 team evaluate, digitize, and subsequently publishes these data.

The treasure rush
ROHSA 3 – new research possibilities

Advantages and utilization:
- information on deposits and raw materials
- 3D geological model
- prospectivity prognosis and data reinterpretation
- additional information on ROHSA 3

Many unpublished data sets are available. Our search engine www.rohsa.sachsen.de provides access to documents and maps, and drilling data as well as to technical information on deposits and mining activities.

Saxony is uncovering its treasure!
Saxon Raw Materials Strategy

8 Guidelines

1. Primary Raw Materials - Saxony as a Mining Region
2. Secondary Raw Materials
3. Saxony as a Region for Raw Materials Industry and Business
4. International Cooperation
5. Resources in Science and Technology in Saxony
6. Professionals for the Resource Sector
7. Saxon Administration as a Service for Raw Materials Industry and Business
8. Awareness of Raw Materials
Geokompetenzzentrum Freiberg e.V.

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