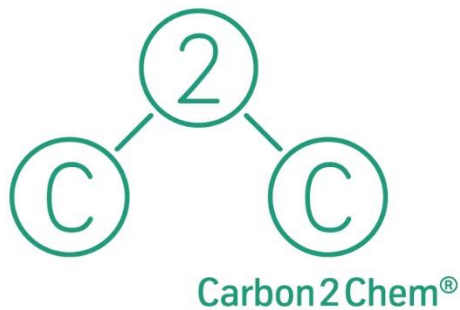


Cluster Project Carbon2Chem[®]

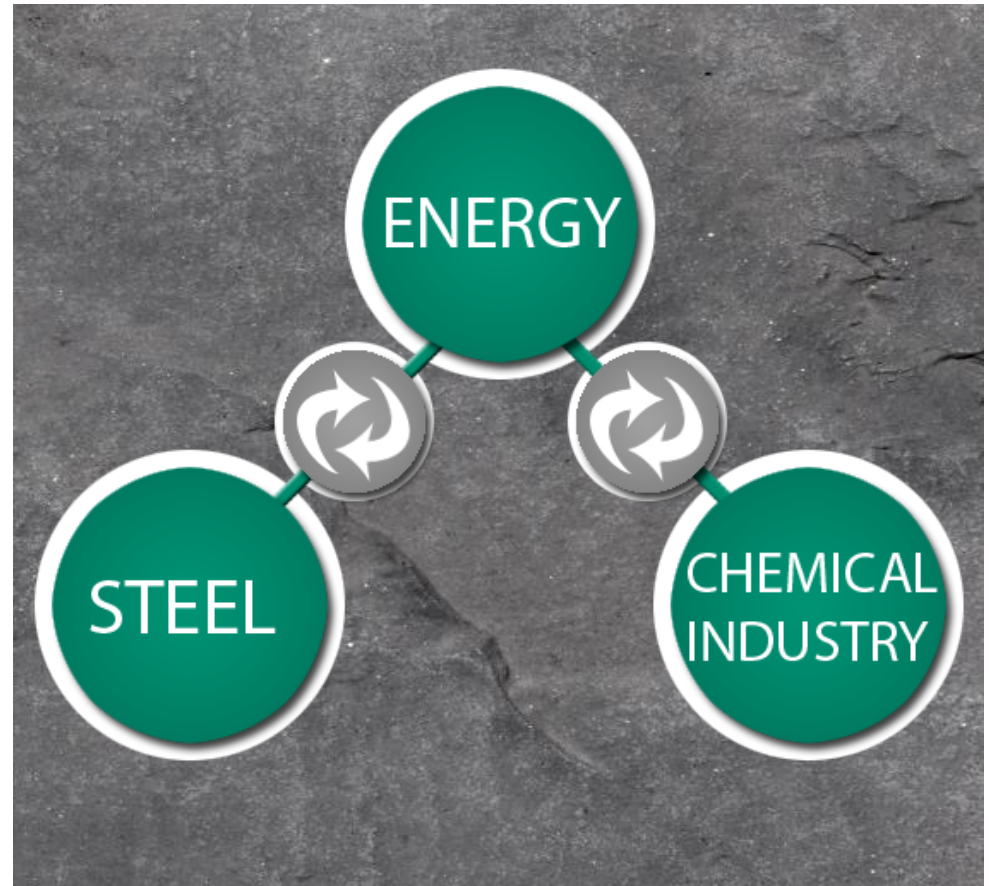
Cross-Industrial Network Steel - Chemistry - Energy



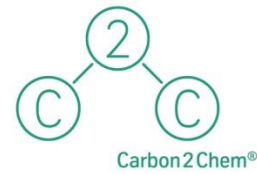
SPONSORED BY THE



Federal Ministry
of Education
and Research



Cluster Project Carbon2Chem® - Overview

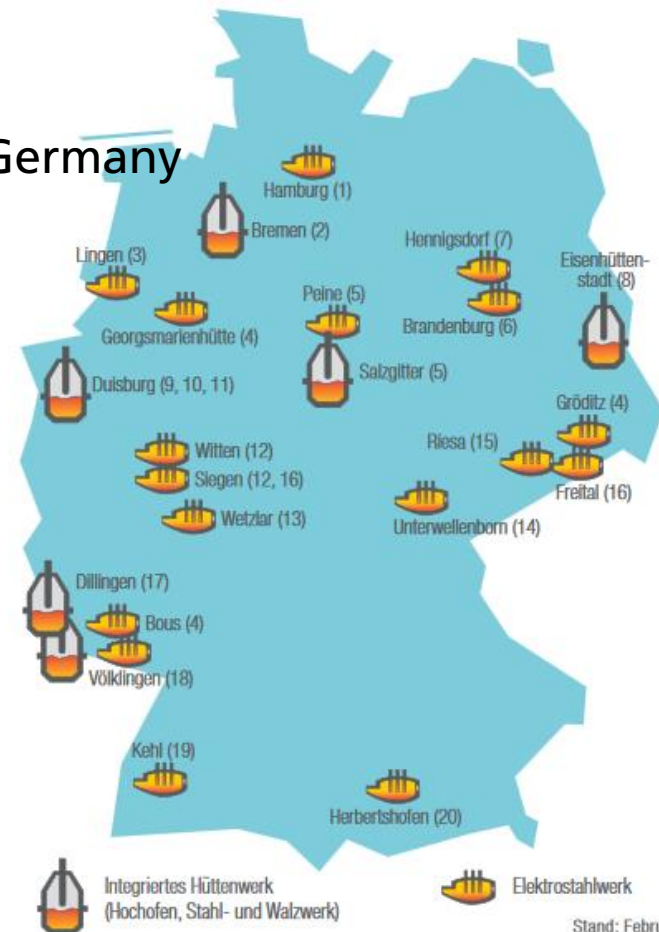


Steel industry: present situation

- approx. 43 Mio t steel p. a., 80 sites in Germany (NRW: approx. 17,2 Mio t/a)
- CO₂-emissions: approx. 58 Mio t CO₂/a
- approx. 7 % national
- reduction plan industry 2030: 50 %

Project objectives

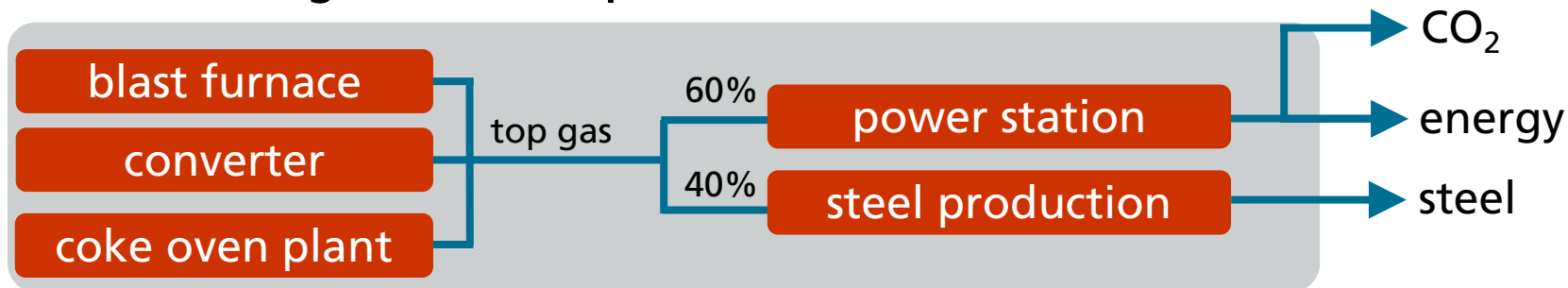
- cross-industrial production network
- increased efficiency
- reduction of total emissions potential: 20 Mio t/a



Quelle: Fakten zur Stahlindustrie 2016, stahl-online.de

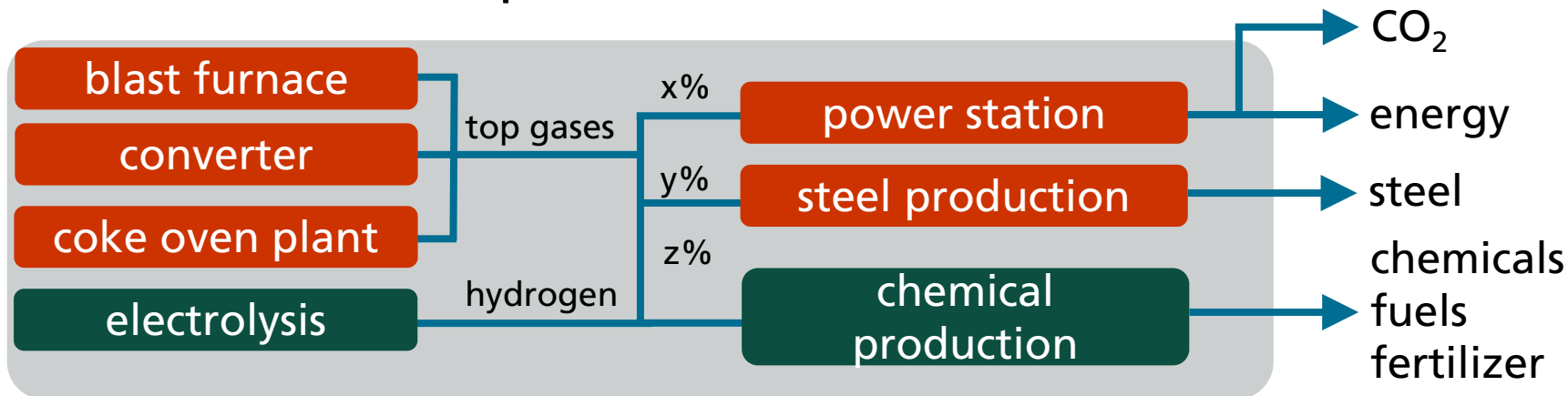
Concept of Carbon2Chem®

Present integrated steel production



top gas: CO, CO₂, H₂, N₂: **2.3** Mio m³/h

New cross-industrial production network



Cross-Industrial Production Network Carbon2Chem®

