

# Improving EU ETS Data for Sector-Level Analysis

Challenges, insights, and opportunities from EUTL-based research

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# The EUTL: a compliance tool—not an analytical dataset

EUTL = Designed for compliance, not analysis

- Data reported at installation–compliance-year level
- Single “Main activity” code per installation (~40 categories)
- Good for regulatory monitoring
- **But insufficient for sectoral understanding**
  - No sector/NACE information
  - No links between installations within industrial plants
  - Missing context for supply-chain interactions

# Why this matters: the steelmaking case, missing the real emissions

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- EUTL categories ≠ Industrial sectors
- Lack of upstream–downstream supply chain links
- The steelmaking example: installations labelled as “Iron and steel production” → mainly stand-alone finishing installations.
- Steel sector emissions appear fragmented and underestimated
- Activity codes do not represent real production systems

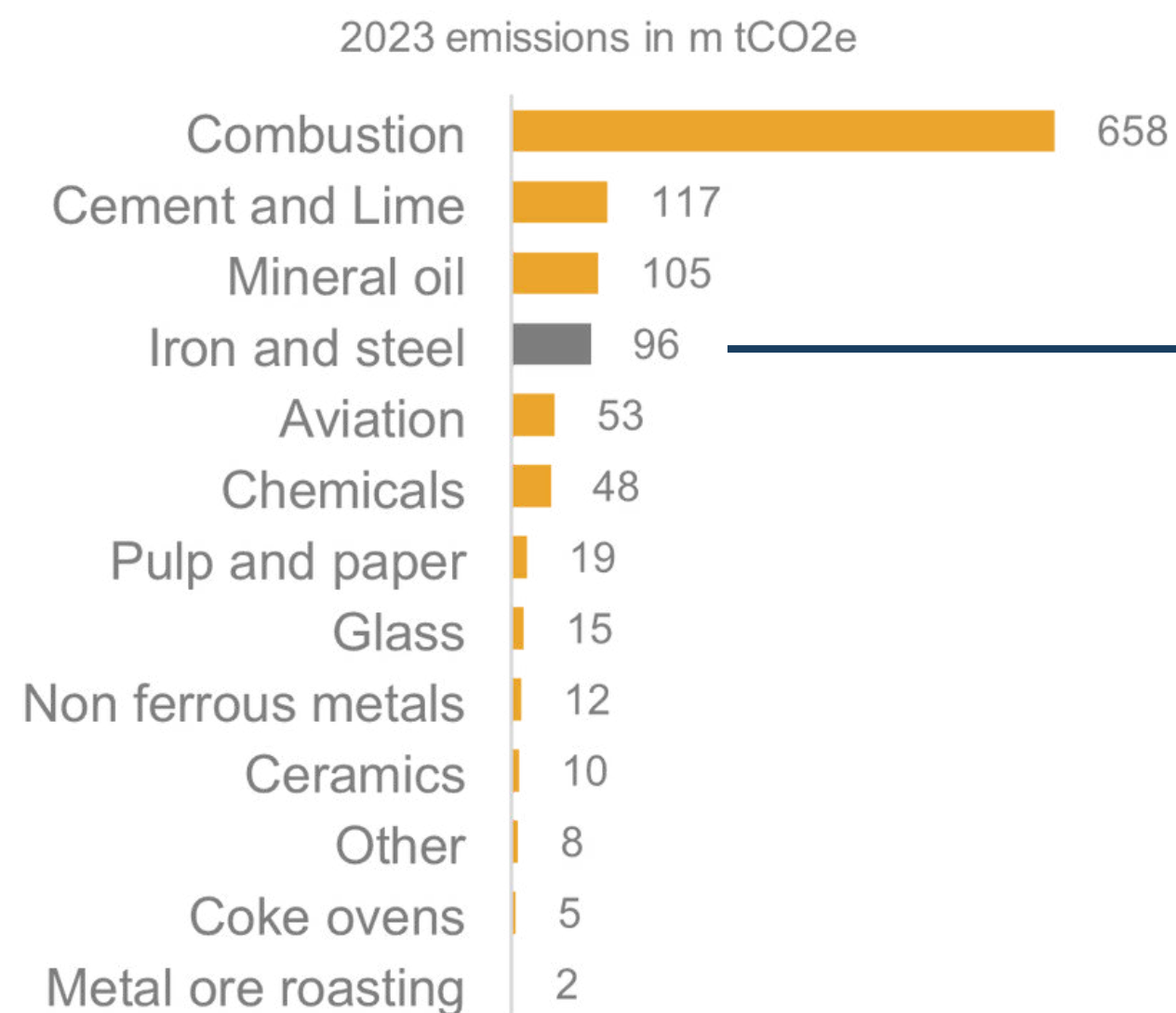
# Our approach: a sector-level analysis based on geolocation + industrial context

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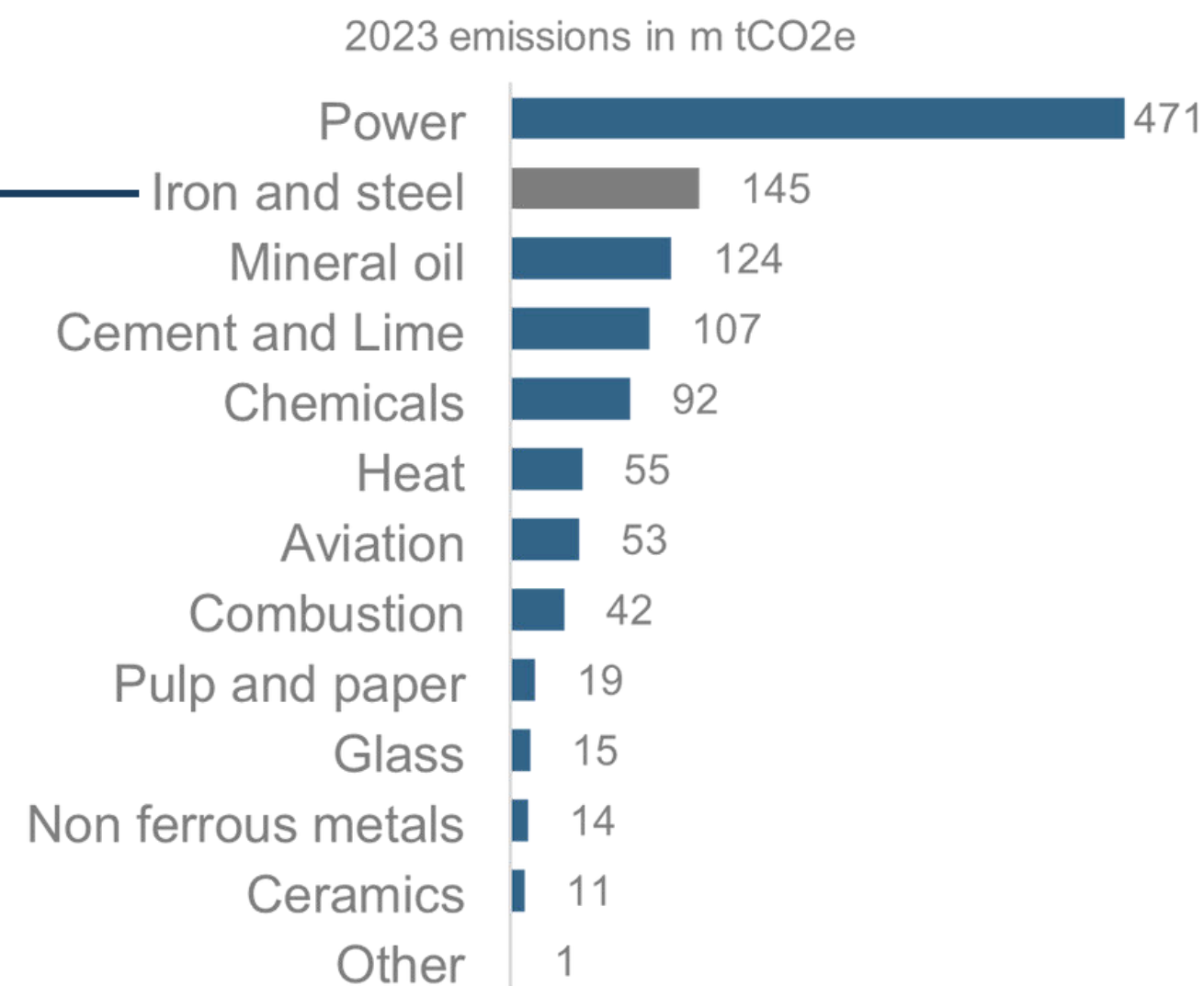
- We re-attributed emissions from installations that operate as part of steel plants:
  - Combustion of blast furnace / converter gas in nearby power plants
  - Coke ovens
  - Ferro-alloy manufacturing
  - Lime kilns producing lime for steelmaking
- Method:
  - Spatial matching of installations to steel plant locations
  - Identification of functionally integrated units
  - Reclassification of their emissions into the steel sector

# Key Findings: Steelmaking = ~25% of all industrial ETS emissions in 2023

## EUTL-based Activities



## Sandbag Sectors



# The Question of Responsibility

Who is responsible for transferred emissions?

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- Example:
  - Blast furnace gas originates in steel plant
  - But emissions are reported by utility combusting the gas
- Questions this raises:
  - Do these emissions “belong” to steelmaking?
  - Should they affect free allocation benchmarks?

# What Would Improve ETS Data Usability?

## Three practical improvements

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1. Add sector identifiers (e.g., NACE mapping) – previously done for carbon leakage list preparation
2. Provide relational metadata
  - Plant/site identifiers
  - Company groupings
  - Links between installations on same industrial site
3. Tag transferred emissions
  - Identify when emissions originate from one installation but are reported by another

# The EUTL: a compliance tool—not an analytical dataset

The EU ETS is maturing. The data should, too.

- EUTL is robust for compliance
- But insufficient for system-level analysis
- Integrating industrial context, and relational data reveals a more accurate emission landscape
- Better metadata would support:
  - Policymakers
  - Researchers
  - Industry
  - Transparency in carbon pricing



# Thank you