

# Energy Use Patterns in German Manufacturing from 2003 to 2017

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General on data access:

The statistics shown in this paper are based on different modules of the AFiD data (“Amtliche Firmendaten für Deutschland”), specifically:

- the panel on industrial plants
- the panel on energy use
- the cost structure survey

DOI for the data are available in the notes of the figures and tables in the paper. Official metadata can be found online (in German): <http://www.forschungsdatenzentrum.de/afid.asp>.

Data are confidential and only accessible onsite in the research data centres of the statistical offices, or through remote execution. For the terms of usage, see: <https://www.forschungsdatenzentrum.de/en/terms-use>.

Overview over do-files and data provided:

- `energy_use_patterns_dataprep.do`: prepares the data for analysis. Specifically, in this do-file, sectors are reclassified to a consistent sector classification (NACE Rev. 2) and emissions are calculated from energy consumption numbers. Additionally, fossil fuel consumption is corrected for the occurrence of conversion losses. Plants with implausible reporting are dropped, and price indices merged.
- `energy_use_patterns_statistics.do`: generates all graphs and tables from the paper given the prepared data.
- `Preisindex_neu.dta`: contains price indices at the 3-digit sector-level retrieved from DeStatis (“Erzeugerpreisindex gewerblicher Produkte”, available under: [https://www.destatis.de/DE/Themen/Wirtschaft/Preise/Erzeugerpreisindex-gewerbliche-Produkte/\\_inhalt.html](https://www.destatis.de/DE/Themen/Wirtschaft/Preise/Erzeugerpreisindex-gewerbliche-Produkte/_inhalt.html))
- `Stromerzeugungsanlagen_VG_neu.dta`: contains numbers on efficiency factors for the transformation from fossil fuels to heat and electricity for electricity self-generators, retrieved from the DeStatis survey “Survey of electricity producing units in manufacturing”. For a description of the procedure of this correction, see Rottner, E. and von Graevenitz, K. (2021). What Drives Carbon Emissions in German Manufacturing: Scale, Technique or Composition?, ZEW Discussion Paper (21-027).