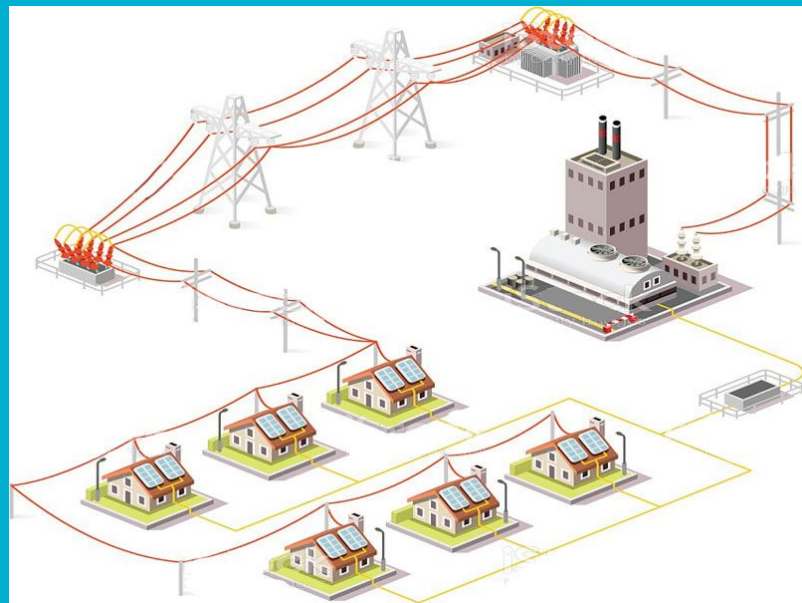


# Energy data can be hard to access

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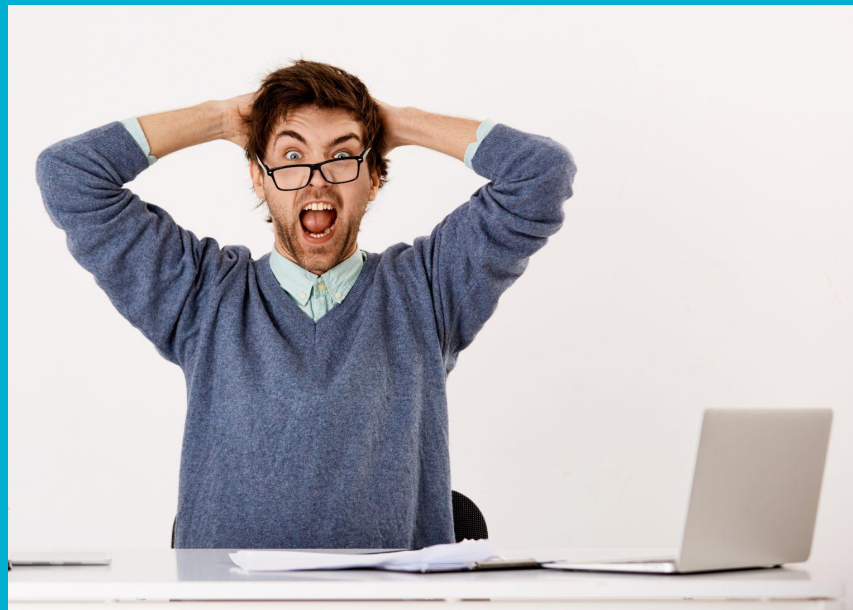
- Many data providers!
- Data changes over time
- Many file types, some ancient
- Continuously updated data



# Energy data can be messy and unpredictable

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- Raw data needs substantial cleaning
- Commercial data hides assumptions behind a black box, restricts re-use, and is expensive



# Towards collaborative, open and reproducible energy research

- **Collaborative:** Work with others throughout the research process
- **Open:** Share inputs, outputs and assumptions
- **Reproducible:** Other researchers can reproduce your results and build on your work