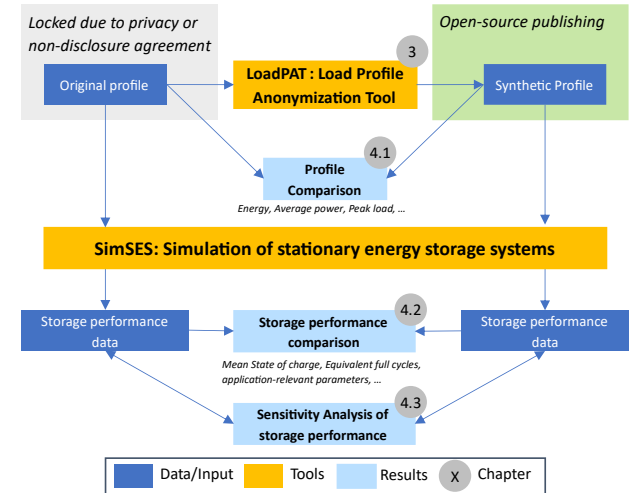


Feature-conserving gradual anonymization of load profiles and the impact on battery storage systems

In this work, a methodology was developed to anonymize electrical load profiles. The anonymization is performed gradually, and the level of anonymization can be chosen by the user. Furthermore, the effects of the anonymization on KPIs relevant for battery storage are compared.

- Methodology for a feature-conserving gradual anonymization of load profiles.
- Application of the methodology to different load profiles and storage applications.
- Analysis of the effects on storage system operation using different KPIs.
- Demonstration of the open-source load profile anonymization tool LoadPAT.
- Methodology allows publishing load profiles similar to protected original profiles.



Tepe, B; Haberschusz, D.; Figgenger, J; Hesse, H; Sauer, D; Jossen, A.: *Feature-conserving gradual anonymization of load profiles and the impact on battery storage systems*, in: *Applied Energy* 343, <https://doi.org/10.1016/j.apenergy.2023.121191>, 2023