ADRENALIN 2024

Load disaggregation Challenge: Energy use in buildings

## Report template

1. **Executive Summary**

* Objective: Disaggregate heating and cooling loads using smart meter data.
* Key Findings: Algorithm achieved X% accuracy.

1. **Introduction**

* Background on energy disaggregation.
* Objectives of the project.

1. **Methodology**

* Description of the algorithm.
* Data requirements and sources.
* Training and testing procedures.

1. **Data**

* Sources: Smart meters, weather data.
* Preparation: Cleaning, preprocessing steps.
* Characteristics: Data frequency, periods covered.

1. **Algorithm Implementation**

* Software used: Python, specific libraries.
* Code repository: Link to GitHub.
* Parameters: Default values, tuning details.

1. **Results and Evaluation**

* Performance metrics used: Accuracy, precision.
* Comparative analysis with other methods.
* Error analysis: Observed limitations.

1. **Reproducibility**

* Step-by-step instructions.
* Environment configuration: Hardware, OS, dependencies.
* Checklist for reproducibility.

1. **Discussion**

* Interpretation of results.
* Limitations of the study.
* Future work suggestions.

1. **Conclusion**

* Summary of findings.
* Recommendations based on results.

1. **References**

* List of cited works.

1. **Appendices**

* Additional supporting materials.