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Titre du travail Partie I

Load Forecasting using Machine Learning

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PROBLEMATIQUE

Load forecasting is the process of predicting how much electricity will be needed at a given time and how that demand will affect the energy grid. It is essential for determining Energy Production and maintaining Grid stability.

This Bachelor Work aims to use Machine Learning for such predictions.

OBJECTIFS

- Visualise the Production / Consumption Data
- Setting a Baseline Model
- Setting model evaluation Metric
- Create a Medium Term Forecasting Model (Predicting Total Amount of Energy Consumed per day/Week)
- Evaluate the results
- Discuss challenges and conclusions