### Main functions, requisites & benefits

**Main functions**

Conventional techniques for load forecasting predict energy consumptions of one specific location (region). This project will develop and implement machine learning techniques that jointly obtain the forecasts corresponding to multiple regions. In addition, such techniques will be based on probabilistic online learning that provides uncertainty assessments and adapts to patterns’ changes.

**Requisites**

Required knowledge and skills in the following areas: Mathematics, statistics, machine learning, linear algebra, Matlab.

**Benefits**

The duration of the internship will be 3 months, flexible dates depending on student availability. The covered expenses will be negotiated.