2019 SSC Case Studies in Data Analysis Poster Competition

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| Case study # | 1 |
| Team Lead and Members | Mathilde Bourget and **Gabriel** **Morin** |
| Department and University | Department of mathematics, UQAM |
| Supervisor | Mathieu Boudreault |
| Project Title | Predicting Hourly Electricity Demand in Ontario |

INTRODUCTION :

In order to have enough electricity production each hour to fulfill Ontario’s residential demand, it is essential to have the hourly demand data. Unfortunately, this data is not available publicly and so statistical models can be used to estimate the demand.

OBJECTIVE :

Our main objective was to predict the hourly demand of electricity for the residential sector in Ontario with accuracy using time and weather as predictors. Our priority was accuracy, so we wanted a model complex enough to capture hourly variations in electricity demand.