Energy Efficiency in NYC Municipal Buildings

In this project, students will be involved in exploring energy consumption and demand data in New York City municipal facilities. A procedure is in place for identifying and quantifying heating, cooling and baseload energy consumption in commercial buildings, using change-point linear regression models. Students will compare these end-use breakdowns across different facility types to identify conditions that are suitable for different kinds of energy efficiency measures. Students will also work with load profiles visualizing 15-minute interval electricity demand data, to investigate relationships between high demand loads and high baseloads identified in corresponding change-point models.