

## FROM THE GROUND UP: IDENTIFYING SOLUTIONS TO IMPROVE ENERGY MANAGEMENT IN BUSINESSES

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Energy management is gaining importance in the infrastructure sector. With an increase of sustainability in business, there is a need for more creative solution between these two areas. During my capstone, I worked with the Leviton energy system in Husky Stadium. The purpose of the project was to create a holistic understanding of how to manage and interpret energy data sets collected from the stadium. In addition to the internship, I completed a survey that focused on sustainability of individuals. The survey included a variety of multiple choice and long answer questions. The participants showed differing opinions of what sustainability means to an individual. In reference to Husky Stadium, before data collecting, my hypothesis was that there would be more power used on a game day. After looking at the results, it is difficult to come to a conclusion about the data, as there was no correlation between power and attendance. Graphics and results used kilowatts as the unit of measurement. I recommend future research be conducted at Husky Stadium, including looking at kilowatt-hours. This capstone has given me experience in monitoring systems, in addition to more background on energy data sets. These tools have allowed me to give future recommendations for the management of buildings, business operations, and sustainability in an office setting. With Seattle creating goals to become carbon neutral by 2050, it has become necessary to incorporate more sustainable options. Energy management could allow for Seattle to achieve this in the future.