

Tiffany Schindler

Project Abstract - Minnesota Department of Commerce



INTERN

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BS Physics, University of Minnesota 2021
(expected)

PROJECT FOCUS

Energy

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INCENTIVE

Water treatment plants (WTP) are estimated to use as much as 379 million kilowatt hours per year in Minnesota, yet there are few studies that evaluate energy use at WTPs in Minnesota. The majority of studies done nationally focus on utilities that serve populations of over 100,000; only four sites in Minnesota fall into this category. The goal of this study is to identify opportunities for energy efficiency at fifteen sites and use this information to help electric utilities develop rebates to incentivise efficiency improvements.

GENERAL APPROACH

Interviews were completed with 15 water utilities throughout the state and energy efficiency opportunities were identified. Now that all fifteen sites have been interviewed, the next step is to do in-depth assessments at five of the sites interviewed.

FOCUS OF RESEARCH / RECOMMENDATIONS

These assessments will provide quantifiable energy and cost savings for each of the opportunities identified and offer guidance on which utilities could take advantage of each.