For the RCP project focused upon water and energy conservation and education, the City of Minnetonka worked with Holaday Circuits, Inc. to identify and implement environmental practices that could be transferred to other businesses in the community. Based upon this case study, the team also developed a checklist for the City to use with other businesses in identifying opportunities for water and energy conservation. Our method to approaching this project involved a tour to the facility in which we conducted interviews and analyzed water and energy use. This allowed us to identify areas that needed to be addressed. We utilized EPA calculators to generate efficiency metrics (i.e. water, energy, and carbon saved) from recommended implementation strategies. Our goal was to provide effective solutions that could be implemented across scales.

**RECOMMENDATIONS:**
- 46.7% of the 102,000SF building is a candidate for lighting occupancy sensors = 72 sensors
- Implement dock shelter, faster door, and under-leveler seal & door weather seals
- Retrofit toilets with low-flow, dual-flush valves, retrofit sinks with low-flow faucets
- High efficiency water softener, multi-pass cooling, landscape irrigation, process water floor washing
- Place 2-stage SolarWall on south facade of the building

**FINDINGS:**
- Energy Reduction: 20,000 kWh/yr
- Cost Savings: $2,800/yr
- Payback: 4 yrs (without utility rebate)
- Energy Reduction: Based on total facility energy costs
- Cost Savings: $1,500-9,900/yr
- Payback: 1-3 yrs
- Energy Reduction: 4,200-6,300 therms/yr
- Cost Savings: $5,300/yr
- Payback: 9.6 yrs
- Water Reduced: 250,000 gal/yr
- Cost Savings: $31,000/yr
- Payback: Dependent on Reuse
- Water Use: 15.6 million gal/yr
- Cost Savings: $41,298.11 - $50,418.11 PER YEAR

**APPROACH & METHOD:**
- Quantitative data collection: process flow chart, building floor plan, energy use
- Increase lighting efficiency, decrease energy lost from unoccupied lit rooms
- Increase heating efficiency, decrease energy lost from building envelope through use of double facade and provide positive pressure
- Analyze age of cooling towers and identified areas that could benefit from water use reduction technologies.
- Analyze age of faucets and toilets and identified areas that could benefit from water use reduction technologies.
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**TOTAL SAVINGS:**
- 20,000 KWH PER YEAR SAVED
- 50,000 KWH PER YEAR SAVED
- 150,000 KWH PER YEAR SAVED
- 250,000 GAL PER YEAR SAVED
- 15.6 MILLION GAL PER YEAR SAVED