



Majestic Custom Electric, Inc.
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Case Study – Anoka Shell

Retrofit Lighting

Service Station with Convenience Store had requirements for energy efficient lighting for the store, rest rooms, car wash and storage rooms. Outside there was a need for soffit lighting and general parking lot lighting. 60 Light Fixtures were retrofit for Solid State LED Lighting. Using a total of 122 Green Miser Lamps..



Original Lighting Load 9.6 KW. With an annual energy consumption of 51,369 KWH The Green Miser Solid State LED Lighting reduced the Lighting Load to 3.0 KW. With a new energy consumption of 13,563 KWH. This change resulted in a annual savings of \$3,164 or \$263 per month. The pay back for this retrofit is just under 3 year. Anoka Electric, the electricity provider contributed \$1,249 in the form of an Energy Savings Rebate.

Result –equivalent light with less energy cost & less maintenance cost.



Environmentally Friendly

- CO2 footprint reduced by 64,270 lbs. of Carbon Dioxide
- Over 2,250 mg of Mercury eliminated by LED Technology
- The 2.5 to 5 times longer lamp life will results in 25 less maintenance actions/year
- LED Lighting is free of hazardous materials, eliminating the requirement for special disposition at recycling centers.



By the Way – Over \$22,000 of Savings over a 10 year period.