

RESOLUTION 2023-18

Streetlight conversion to LEDs to save money and reduce carbon emissions

- Whereas,* The City of Middleton owns 960 streetlights, 267 of which have been converted to more efficient LED lighting technology; and
- Whereas,* MGE owns and maintains approximately 247 streetlights in Middleton, of which one is an LED; and
- Whereas,* LEDs are much more energy efficient than incandescent, mercury vapor, and high pressure sodium fixtures; have a relatively long life span of over 10 years, reducing maintenance visits; and
- Whereas,* The City's 2020 Energy Plan and 2022-24 Sustainable City Plan prioritize streetlight conversion to LEDs to reduce the City's greenhouse gas emissions and help the city achieve a goal set by Council to reduce electricity usage by at least 50% by the year 2050; and
- Whereas,* For Project 23-119 Downtown Street Light Replacement, the City has allocated a budget of \$140,500 in 2023 to replace 18 downtown streetlight fixtures with new poles and LED fixtures; and
- Whereas,* The City of Middleton will seek a grant from the Carbon Reduction Program in April 2023 to cover 80% of up-front Capital costs for LED streetlight conversion over several years; and,
- Whereas,* According to the City's 2020 Energy Plan, converting older less efficient streetlights to LEDs will result in annual operating savings of approximately \$30,000, save 275,124 kwh in energy per year, and eliminate 210 tons of CO₂ emissions; and
- Whereas,* MGE has committed to achieving carbon reductions of at least 80% by 2030; and
- Whereas,* Middleton has committed to obtaining 15% reduction in energy usage by 2030, 100% of City operation electric needs from renewable sources by 2035, 80% of community-wide electric needs from renewable sources by 2040, and 100% of community-wide energy needs from renewable sources by the year 2050; and
- Whereas,* MGE considers energy efficiency a key strategy for deep decarbonization and is continually evaluating current and new programs to help customers advance clean energy and manage their energy use;

NOW THEREFORE BE IT RESOLVED that the Common Council of the City of Middleton hereby direct that, when city-owned streetlights burn out, they must always be replaced with LED bulbs/fixtures unless extenuating circumstances such as fixture availability make that replacement not feasible; and

BE IT FURTHER RESOLVED that the City will seek to standardize street light fixtures to those eligible for Focus on Energy rebates, so that a minimal number of fixtures will be kept in stock to ensure cost-effective and timely maintenance and replacements of street lighting throughout the City; and

BE IT FURTHER RESOLVED that the City street lighting will comply with City Ordinance Chapter 33, specifically including the requirements of Ord. Sec. 33.08; and

BE IT FURTHER RESOLVED that the City formally requests that MGE replace high pressure sodium and metal halide bulbs in both utility-owned and city-owned but MGE maintained fixtures with LEDs and report this replacement to the City in a timely manner to facilitate Middleton's tracking of energy usage and greenhouse gas emissions; and

BE IT FURTHER RESOLVED that the City commits to working with MGE to secure federal and other funds to do bulk replacement of utility-owned and maintained streetlight bulbs and fixtures within the next three years, which is faster than MGE's planned 5–8-year timeframe for full replacement; and

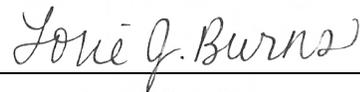
BE IT FURTHER RESOLVED that the City of Middleton formally requests that MGE pursue and notify the City of the details of this Spring's, and any future rate case to make LED streetlight conversion more advantageous for municipalities in Dane County to meet their energy goals.

This resolution was adopted at a regular meeting of the Middleton Common Council on the 2nd day of May, 2023.



Emily Kuhn, Mayor

ATTEST:



Lorie J. Burns, City Clerk