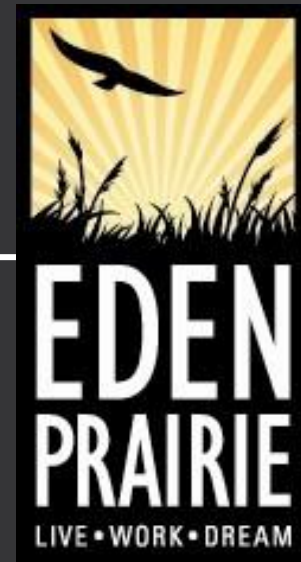


Sustainable Eden Prairie

APWA Environmental Stewardship Award 2020



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- Sustainable Eden Prairie is an ongoing effort since 2011 focusing on education and implementation of sustainable practices to protect the environment and natural resources the community enjoys.
- Four areas of concentration: Energy, Landscape, Waste, Water



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- Best Practices Highlights – 20-40-15 Initiative
 - Goal to increase energy efficiency in facilities by 20% and fuel efficiency by 40% over a ten-year period
 - Ended with 21.8% increase in energy efficiency and 44.4% increase in fuel efficiency
 - Projects were cost effective with overall net savings of \$761,145
 - Reduced GHG emissions by 2,900 metrics tons CO_{2e}



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- Best Practices Highlights – Partners in Energy
 - 2017 participant through Xcel Energy
 - Energy action team formed from residents, local businesses, school district, city commission members and staff
 - Energy Action Plan guides community-wide strategies and goals around energy efficiency and renewable energy



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- Best Practices Highlights – Fire Station #2 Water Reuse System

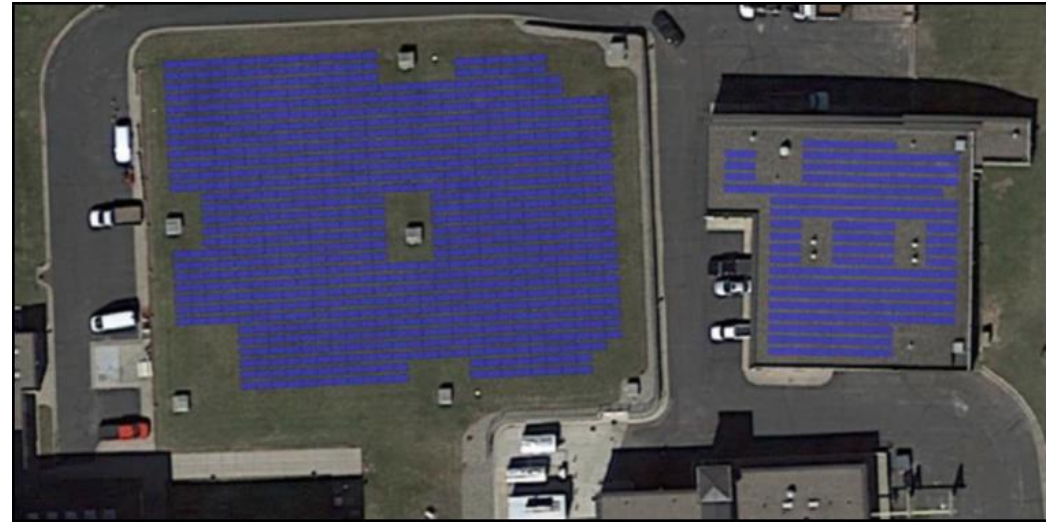


- Partnership with Riley Purgatory Bluff Creek Watershed District, SRF Consulting, Engineers without Borders, and Met Council to install rainwater collection and reuse system
- Conserves over 41,000 gallons of drinking water annually, 98% of fire station water needs can be met with system
- Native plantings, interpretive trail and signage educate residents about system and water infiltration

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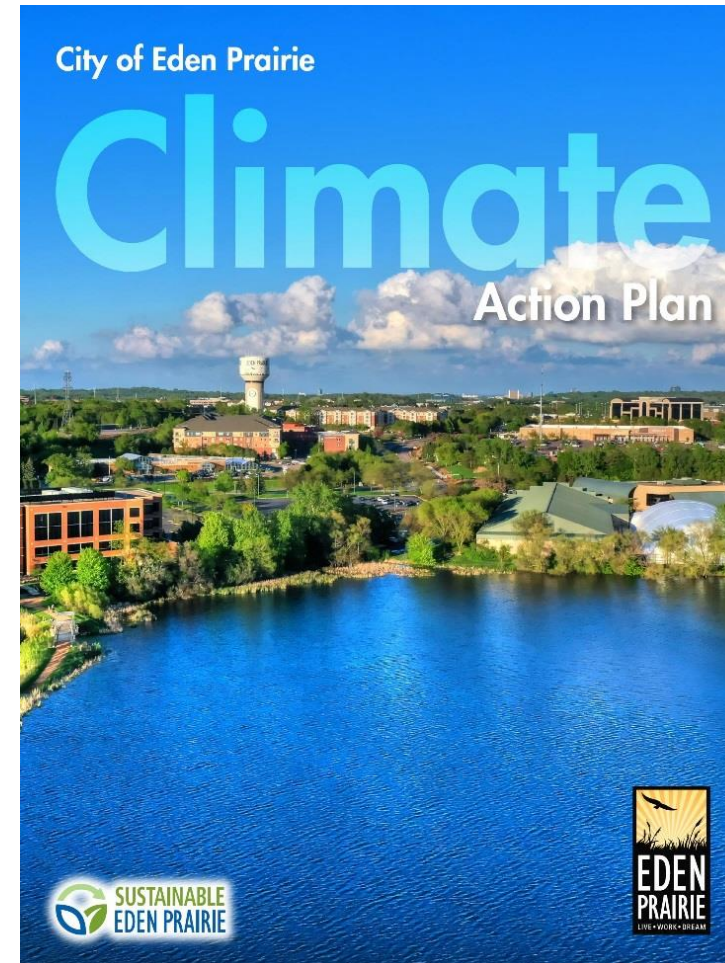
- Best Practices Highlights – Rooftop Solar and Community Solar Garden Subscription
 - 720.46 kW of roof/ground mount solar at 4 city facilities
 - Host site for community solar garden expected to come online in 2021
 - 1.096 million kWh/year of free/clean energy to city facilities after payback
 - Reduce GHG emissions by 854 tons of CO_{2e} per year
 - CSG subscription for 18 million kWh/year. Estimated lifetime cost savings \$4.1 million, reduce GHG emissions 350,500 tons CO_{2e} per year



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- Best Practices Highlights – Climate Action Plan
 - Overall goal of carbon neutrality by 2050
 - Strategies for achieving this goal are identified in commercial/industrial efficiency, residential efficiency, renewable energy, fuel switching in buildings, travel, grid mix and waste
 - Identified critical partnerships, outlined action steps in encouragement, regulation, incentive, and leadership categories
 - Ongoing commitment to track and report progress on carbon neutrality goal



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- Other Notable Best Practices Implemented
 - Promoting efficient city growth and mixed-use development through Transit Oriented Development (TOD) ordinance
 - Supporting active lifestyles with 120 miles of bike trails, 13 miles nature trails
 - Incorporating organics collection in city facilities
 - Adopting design guidelines that encourage sustainable site and building design
 - Ongoing water conservation rebate program, participates in National Mayor's Challenge for Water Conservation
 - Environmental education center at water treatment facility
 - City's first fully electric squad car (Tesla Model Y) on order to be used in the police patrol fleet. Will be up-fitted with same equipment as other squad cars.

