



Step 4 & 5 - Metrics Highlights

Updated July 2021

The following summaries are taken from Step 4 & 5 metrics reports and are considered unique or improved. Full reports are available by clicking on a city name on the [“All Cities”](#) page. See more with the [Step 4 & 5 Metrics Dashboard](#).

Summary – 2021 Reports

- In 2021, **29 cities completed Step 4** and **25 cities completed Step 5** metrics reporting. All cities submitting metrics received recognition.
- 15 Step 5 cities reported a reduction in **kBtu usage in city facilities**. (Metric 1.1.)*
- Percent **LED streetlights** owned by the city and utility have increased to an average of 69% in 2020 from 14% in 2016 (Metric 1.4)
- 22 cities report 100% of their **traffic signals** have been converted to LED. (Metric 1.5)
- 7 Step 5 cities saw an improvement in **city fleet gasoline MPG**. The total average for all cities is 11.2 MPG, but similar to 2018 average MPG (Metric 3.2)*
- 7 Step 5 cities saw an improvement in **city fleet diesel MPG**. The total average for all cities is 5.5 MPG, up from an average of 4.3 in 2018 (Metric 3.4)*
- Cities report owning or leasing 48 **electric vehicles in the city fleet**; up from just 28 in 2018. (Metric 3.5)
- Cities reported that 45.4 **miles of new or reconstructed sidewalks or trails** were completed (Metric 4.1)
- An average of 92% of residents in reporting cities **live within one mile of a bike route** (4.2); 72% live within ¼ mile of transit route (5.8); 84% **live within ½ mile or 10 minute walk of parkland** (8.3).
- Reporting cities average over 10 **public electric vehicle charging stations** and 14 Step 5 cities saw an increase. (Metric 5.1)
- Cities reported adding 304 **affordable housing units** throughout their communities. (Metric 7.6)
- Reporting cities average 36% of **total city acres in open space** (8.1); an average of 1,532 acres per community (8.2); and an average of 33% **tree canopy** across the city (8.4).
- Cities reported planting a total of 8,627 **new trees** in their communities, an increase for 11 Step 5 cities. (Metric 8.6)
- No Step 5 cities saw a reduction in **daily residential gallons of water** used per person/per day; a total average of 59 gallons. (Metric 10.1)*
- 8 Step 5 cities saw a reduction in **daily business gallons of water** used per job/per day; a total average of 61.8 gallons. (Metric 10.2)*
- Cities reported an average of 3.44 pounds of **solid waste generated** per city resident/per day, an increase over 2020 metrics by nearly half a pound. (Metric 13.1)*
- 2021 Step 4&5 cities reported a collective total of 2,260 **municipal and private renewable energy generation sites** – an increase of 899 sites compared to the previous year. (Metric 14.1)
- The average percent of total city energy use that is met by **generated and/or purchased renewable energy** declined from 46.7% in 2020 to 36%. (Metric 14.6)*

* These metrics were strongly impacted by the 2020 COVID-19 pandemic which significantly shifted city, residential, and business operations and “norms”.

Apple Valley

Step 4	2020-2021
Step 5	2021

- 100% of traffic lights are LED.
- 100% of Apple Valley's housing is within 1 mile of a bike route.
- Increased the number of public electric vehicle charging stations from 0 in 2019 to 1 in 2020.
- Improved Stormwater Assessment scores from 58 in 2019 to 62 in 2020; adaptation scores from 59 to 65.

Bloomington

Step 4	2020-2021
Step 5	2021

- 98% of traffic lights are LED.
- 99% of Bloomington's housing is within ½ mile of a bike route.
- Increased the number of public electric vehicle charging stations from 32 in 2019 to 58 in 2020.
- 95% of housing is located within ¾ mile of transit routes.
- 73% of the city is in open space.
- 95% of Bloomington's housing is located within ½ mile or 10 minute walk of parkland.
- Increased the net number of trees planted from 350 in 2019 to 475 in 2020.
- Bloomington scored the highest Stormwater Assessment scores of any Step 4/5 reporting city with 73 and 82 (adaptation).
- Bloomington reported 658 renewable generation sites with 14,148 kW capacity across the city, the most of any Step 4/5 city.
- Improvements at city facilities included: replacement of boilers at Public Works and WWTP, LED upgrades, automated building control upgrades for HVAC.

Burnsville

Step 4	2016-2017, 2019-2020
Step 5	2017, 2019-2020

- 100% of traffic signals are LEDs.
- Burnsville's average city gasoline fleet MPG was 16.5 MPG in 2019.

Duluth

Step 4	2020-2021
Step 5	2021

- 98% of streets lights are LEDs.
- Increased the % of LEDs in city buildings and property from 25 to 40% in 2020.
- Increased the number of public electric vehicle charging stations from 9 in 2019 to 23 in 2020.
- 97.29% of housing is located within ¾ mile of transit routes; an increase of 0.59 over 2019.

- Reduction of miles city employees traveled in single occupancy vehicles to 15.9; 8.6 fewer than 2019.
- Reduced city water usage by 24,600 gallons in 2020 compared to 2019.
- Doubled the number of residents/businesses participating in renewable energy purchasing/green power programs over 2019.
- A Sustainability Officer was hired in 2020.

Eagan

Step 4	2017-2021
Step 5	2018-2021

- Increased the percent of street lights converted to LED from 0% in 2016 to 5.7% in 2020.
- 100% of traffic lights are LED.
- Increased the percent of LED lighting in city buildings and property from 28.7% in 2016 to 47.4% in 2020.
- Eagan's average gasoline fleet MPG increased from 7.6 MPG in 2016 to 12.28 MPG in 2020.
- Eagan's annual VMT by diesel fleet decreased from 196,328 in 2016 to 102,355 in 2020.
- 100% of Eagan's housing is within ½ mile of a bike route.
- The number of electric vehicle charging stations in the city has increased from 2 in 2016 to 10 in 2020.
- 31 affordable housing units were added in 2020.
- 99.72% of Eagan's housing is located within ½ mile of parkland.
- Increased the number of city-owned and private renewable energy generation sites from 13 (899 kW) in 2016 to 65 (3462 kW) in 2020 (and more than triple over 2019).
- Eagan subscribed to 3 solar gardens in 2020; covering 100% of Community Center and Central Park electricity needs or 5% of total city operations.
- Eagan completed a biking and walking plan in 2020 to address safer walking and biking options in the city.

Eden Prairie

Step 4	2016-2021
Step 5	2017-2021

- Reduced kBtu per square foot per year in city buildings from 147.73 in 2018 to 126.55 in 2019.
- 100% of street lights and traffic lights are LEDs.
- 100% of Eden Prairie's housing is within ½ mile of a bike route.
- 20.7% of land within residential/mixed zoning districts have a dwelling unit per acre of 7.0 or higher, the most of any reported Step 4/5 cities.
- Increased the number of new affordable housing units by 53.06% of all new 2020 housing units, steadily increased annually from 3.23% in 2015.

Edina

Step 4	2018, 2020-2021
Step 5	2020-2021

- Reduced kBtu per square foot per year in city buildings from 107.9 in 2018 to 87.4 in 2020.
- Increased the number of public electric vehicle charging stations from 4 in 2017 to 11 in 2020.
- Business water usage decreased from 28.4 gallons/job/day in 2017 to 14 in 2020.
- A steady decrease in percent of annual drinking water losses from 4.1% in 2016 to 1.2% in 2020.
- Increased the number of city-owned and private renewable energy generation sites from 36 (377 kW) in 2017 to 61 (607 kW) in 2020.

Elk River

Step 4	2016-2021
Step 5	2017-2021

- Increased LED street lights that are owned by the city and utility from 23% in 2017 to 42% in 2020; 100% of traffic lights and 100% of city buildings and property are LEDs.
- Residential organics recycling increased from 0.27% in 2018 to 0.32% in 2020.
- Increased the number of city-owned and private renewable energy generation sites from 10 in 2018 to 22 in 2020.
- 100% of total city operations energy use that is generated or purchased renewable electricity, over 17% in 2018.

Falcon Heights

Step 4	2017-2021
Step 5	2018-2021

- Reduced kBtu per square foot per year in city buildings from 86.01 in 2018 to 74.05 in 2020.
- 100% of street, traffic, and city building/property lights are LEDs.
- 100% of Falcon Heights' housing is within 1 mile of a bike route.
- 100% of housing is located within ¼ mile of transit routes.
- City employees commuting by single occupancy vehicles reported a reduction from 23 vehicles miles traveled per person/per day in 2017 to 7 miles in 2020.
- 80% of the city is in open space, the most of any Step 4/5 reporting city.
- Falcon Heights purchases 74.72 MWhr/yr of renewable energy for city operations, amounting to 81% of total city operations energy use that is generated or purchased renewable electricity (over 21.9% in 2017).

Golden Valley

Step 4	2019-2021
Step 5	2021

- Reduced kBtu per square foot per year in city buildings from 114.2 in 2018 to 104.27 in 2020.
- 100% of outdoor City Hall campus lighting is LED.
- 100% of housing units are located within ¼ mile of public transit options.
- Golden Valley planted 373 trees in 2020, up from 77 in 2019.

Hutchinson

Step 4	2016-2021
Step 5	2017-2021

- 100% of traffic lights are LED; LEDs in city buildings and property increased from 7.5% in 2018 to 25% in 2020.
- 100% of Hutchinson's housing is within 1 mile of a bike route.
- Increased the number of public EV charging stations from 2 in 2018 to 4 in 2020.
- 100% of housing is located within ½ mile (10 min. walk) of parkland.
- 100% of the 360 trees planted in 2020 were tree species considered "likely to thrive."
- Improved Stormwater Assessment scores from 36 in 2019 to 41 in 2020.
- Reduced the ratio of inflow and infiltration volume to total volume entering the wastewater collection system from 0.65 in 2016 to 0.09 in 2020.

Inver Grove Heights

Step 4	2020-2021
Step 5	2021

- Reduced kBtu per square foot per year in city buildings from 137.8 in 2019 to 83.46 in 2020.
- 100% of traffic lights are LED.
- 100% of Inver Grove Height's housing is within 1 mile of a bike route.
- Improved Stormwater Assessment scores from 49 in 2019 to 54 in 2020; adaptation scores from 60 to 61.
- Business water usage decreased from 31.55 gallons/job/day in 2019 to 29.75 in 2020.
- Reduced city operations water use by 3,255,000 gallons in 2020 compared to 2019.

Isanti

Step 4	2018-2021
Step 5	2019-2021

- 190 new trees were planted in the city in 2020.
- Isanti has 2 local food venues in 2020, up from 1 in 2019.

Jordan

Step 4	2020-2021
Step 5	2021

- 100% of Jordan's housing is within 1 mile of a bike route.
- The city does not own any diesel-powered vehicles.
- 100% of Jordan's housing is located within ½ mile of parkland.
- 120% of Jordan's total city operations use renewable energy.
- Organics and yard waste collection site opened in 2020; free for residents with 24/7 access.

Mahtomedi

Step 4	2019-2021
Step 5	2021

- Mahtomedi has the lowest ratio of actual energy use to predicted energy use (0.46) of any Step 4/5 reporting city.
- 100% of street and traffic lights are LED.
- Mahtomedi increased LED lighting in city buildings and property from 5% in 2018 to 97% in 2020.
- 100% of housing is located within 1 mile of a bicycle route.
- 53.2% of total city acres are in open space.
- Reduced city operations water use by 25% from 3,276,240 gallons in 2018 to 846,736 gallons in 2020.
- Saw a reduction in business residential waste/jobs/day from 18.3lbs in 2019 to 6.2/lbs in 2020.
- Increased the number of city-owned and private renewable energy generation sites from 8 (19.72 kW) in 2018 to 24(134.55 kW) in 2020.
- Mahtomedi purchases 659.37 MWhr/yr of renewable energy for city operations; 17% of city operation's needs.

Maplewood

Step 4	2016-2021
Step 5	2017-2021

- Reduced kBtu per square foot per year in city buildings from 131.96 in 2018 to 77.9 in 2020 and spent the least amount on energy per square foot, per year of any Step 4/5 reporting city, at 0.29/ft²/year.
- Maplewood spends the least on energy for city buildings – at \$0.29/square foot – out of all Step 4/5 respondents.
- 100% of traffic lights are LEDs.
- Increased the number of private green buildings from 3 in 2016 to 8 in 2020.
- Increased the number of EVs in the city fleet to 5 in 2020.
- 100% of Maplewood residents are within 1 mile of a bicycle route, an increase over 62% in 2017.
- Increased the number of public electric vehicle charging stations from 10 in 2018 to 36 in 2020.
- Improved Stormwater Assessment scores from 55 in 2019 to 62 in 2020; adaptation scores from 73 to 74.
- Maplewood updated the Sustainable Purchasing Policy and updated the Solid Waste Management Ordinance in 2020.

Minnnetonka

Step 4	2019-2021
Step 5	2020-2021

- Reduced kBtu per square foot per year in city buildings from 141.31 in 2019 to 118.32 in 2020.
- Increased the amount of LED lighting in city buildings and property from 70% in 2019 to 85% in 2020.
- 100% of housing is located within 1 mile of bicycle route.
- Total parkland increased to 2018 acres in 2019.
- 98.4% of housing is located within ¼ mile of transit routes.

- 73.5% of all new housing units added in 2020 were affordable housing units.
- 202 trees were planted by the city in 2020, up from 180; 90% are considered species “likely to thrive.”
- 71% of total city operations energy use is generated or purchased by renewable electricity, up from 37% in 2018.
- 98% of residents rate the overall quality of the natural environment in Minnetonka as excellent or good, up from 96% in 2018.
- 36% of households participate in curbside recycling programs, up from 30% in 2018.

Moorhead

Step 4	2021
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- 100% of traffic lights are LEDs.
- Moorhead’s average city gasoline fleet MPG is 16.5 MPG; diesel is 16 MPG (the highest of any Step 4/5 reporting city).
- 100% of housing is located within 1 mile of bicycle route.
- 3 public EV charging stations are available in Moorhead.
- 90% of housing is located within ¾ mile of transit routes.
- 75.3% of total city acres is open space.
- 90% of housing is located within ½ mile (10 minute walk) of parkland.
- The city planted 620 trees in 2020, more than double over the previous year; 90% are considered “likely to thrive.”
- Moorhead purchased 55% renewable energy for total city operations energy use in 2020; 87% carbon-free.

Morris

Step 4	2021
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- 100% of street, traffic, and city building/property lights are LEDs.
- Morris’s average city gasoline fleet MPG is 14.6 MPG; diesel is 8.33 MPG.
- 88% of city population commutes fewer than 20 minutes; the highest amount of any Step 4/5 reporting city.
- The city planted 150 trees in 2020.
- Morris has a ratio of inflow and infiltration volume to total volume entering the wastewater collection system of 0.02.

New Brighton

Step 4	2019-2021
Step 5	2020-2021

- 100% of traffic lights, and 100% of city buildings and property are LEDs.
- 100% of housing is located within 1 mile of bicycle route, up from 95% in 2018.
- New Brighton city population traveled 24.1 vehicle miles per person, per day on average in 2020, down from 25.6 in 2018.
- 100% of New Brighton’s housing is located within ½ mile or 10-minute walk of parkland.
- Business water usage decreased from 36.2 gallons/job/day in 2018 to 32.1 in 2020.
- The number of local food venues has increased from 3 in 2018 to 5 in 2020.

Nisswa

Step 4	2020-2021
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- 80% of city building/property lights are LEDs; the city doesn't own any street or traffic lights.
- Nisswa's average city gasoline fleet MPG is 13.5 MPG; diesel is 12 MPG.
- Nisswa installed 2 miles of new/reconstructed sidewalks & trails in 2020.
- Nisswa city population travels just 6.1 vehicle miles per person, per day on average - the least of any Step 4/5 reporting city.
- 70% of total city acres is open space; 50% has tree canopy coverage – the highest of any Step 4/5 reporting city.
- 97% of high school students graduate.

Northfield

Step 4	2020-2021
Step 5	2021

- Reduced kBtu per square foot per year in city buildings from 93.85 in 2019 to 79.43 in 2020.
- 70% of streets lights and 100% of traffic lights are LEDs.
- Carlton College added 3 LEED certified buildings in Northfield in 2020 (a total of 240,330 sf); for a total of 10 green-certified buildings located in the city.
- Northfield installed 3.87 miles of new/reconstructed sidewalks & trails in 2020.
- 100% of housing is located within 1 mile of bicycle route.
- 1 new EV charging station was added in a city parking lot in 2020 for a total of 5 public stations.
- 65% of all new housing units added in 2020 were affordable housing units.
- 99.9% of Northfield's housing is located within ½ mile or 10-minute walk of parkland.
- Northfield planted 106 new trees in 2020; up from 6 in 2019.
- Improved Stormwater Assessment scores from 40 in 2019 to 43 in 2020; adaptation scores from 35 to 37.
- Increased solar garden purchases from 1675.52 MWhr/year in 2019 to 1909.11 MWhr/year in 2020.

North Saint Paul

Step 4	2020
Step 5	2020

- 100% of street lights, 100% of traffic lights, and 97% of city buildings and properties are LEDs.
- 98% of housing is located within 1 mile of bicycle route.
- 98% of North Saint Paul's housing is located within ½ mile or 10-minute walk of parkland.

Oakdale

Step 4	2017-2021
Step 5	2018-2021

- 100% of traffic lights are LEDs; increased percentage of LED streets lights from 23% in 2019 to 41.2% in 2020.
- 100% of housing is located within 1 mile of bicycle route.
- 95% of Oakdale’s housing is located within ½ mile or 10-minute walk of parkland.
- Business water usage decreased from 29.01 gallons/job/day in 2016 to 17.3 in 2020.
- Oakdale purchases 4222.5 MWhr/yr of renewable energy for city operations in 2020, up from 0 in 2018.

Red Wing

Step 4	2017-2021
Step 5	2018-2021

- 99% of street lights and 100% of traffic lights are LEDs.
- Increased the number of public electric vehicle charging stations from 4 in 2017 to 7 in 2020.
- 55% of all new housing were affordable housing units in 2020.
- Business water usage decreased from 42.93 gallons/job/day in 2016 to 27.22 in 2020.
- Red Wing purchases 4,500 MWhr/yr of renewable energy for city operations, amounting to 120% of total city operations energy use that is generated or purchased renewable electricity.
- Red Wing adopted a Climate Action Work Plan in 2020 that aims to reduce community-wide emissions over the next five years.

Rochester

Step 4	2018, 2020-2021
Step 5	2018, 2020-2021

- 100% of traffic lights are LEDs; increased percentage of LED streets lights from 16.7% in 2016 to 58.2% in 2020.
- 99.8% of Rochester’s housing is within 1 mile of a bike route.
- Increased the number of public electric vehicle charging stations from 9 in 2018 to 21 in 2020.
- 95.7% of housing is located within ¾ mile of transit routes.
- Rochester more than doubled the amount of net new trees planted from 1505 in 2019 to 3100 in 2020.
- Rochester residents produce the least amount of waste water of any Step 4/5 reporting city with 36.8 gallons/person/day.
- 43% of Rochester residential solid waste is recycled.
- 27% of total city operations energy use that is generated or purchased renewable electricity, up from 17% in 2019.
- A City Green Team was started in 2020 to evaluate how the city can be more sustainable in daily operations.
- A community task force was convened in 2020 to help develop a Sustainability and Resiliency Action Plan for the City of Rochester.

Roseville

Step 4	2020-2021
Step 5	2021

- Reduced kBtu per square foot per year in city buildings from 87.67 in 2019 to 69.67 in 2020.
- 100% of street lights, 100% of traffic lights, and 100% of city buildings and properties are LEDs.
- 100% of Roseville's housing is within 1 mile of a bike route.
- 100% of housing is located within ¼ mile of transit routes.
- Roseville more than doubled the amount of net new trees planted from 74 in 2019 to 196 in 2020.
- Increased the number of city owned and private renewable energy generation sites from 86 (736 kW) in 2019 to 95 (973 kW) in 2020.

Saint Anthony Village

Step 4	2016-2021
Step 5	2017-2021

- 100% of street and traffic lights are LEDs.
- Saint Anthony Village's city population traveled 6.4 vehicle miles per person, per day on average in 2020, down from 10.4 in 2019.
- 100% of Saint Anthony Village's housing is located within ½ mile or 10-minute walk of parkland.
- Business water usage decreased from 41.59 gallons/job/day in 2018 to 17.53 in 2020.
- Saint Anthony Village purchased 668.4 MWhr/yr of renewable energy for city operations, up from 469.2 in 2019.

Saint Louis Park

Step 4	2020-2021
Step 5	2021

- Reduced kBtu per square foot per year in city buildings from 118.87 in 2019 to 103.42 in 2020.
- 90% of city traffic lights are LED; increased city facility LED lighting from 55% in 2019 to 65% in 2020.
- New 13,500 square foot Westwood Hills Natura Center Interpretive building added in 2020 and was designed to achieve net zero energy and meets the SB2030 Energy Standard.
- 793,401 square feet of new construction was built in the city in 2020 under the city's Green Building Policy.
- Increased the number of public electric vehicle charging stations from 8 in 2019 to 26 in 2020 (Target installed 12; 4 installed at the new Westwood Hills Nature Center Interpretive building; etc.).
- 100% of Saint Louis Park's housing is within 1 mile of a bike route.
- Improved Stormwater Assessment adaption score from 68 in 2019 to 75 in 2020.
- Reduced the ratio of inflow and infiltration volume to total volume entering the wastewater collection system from 0.23 in 2019 to 0.08 in 2020.
- St. Louis Park purchases 2062 MWhr/yr of renewable energy for city operations, amounting to 100% of total city operations energy use that is generated or purchased renewable electricity.
- The number of electric vehicle registrations in the city is 189.

Saint Paul

Step 4	2017-2019
Step 5	2018-2019

- 100% traffic signals are LED.
- Increased the amount of open space by 1% in 2019.
- Increased the percent of total city operations using renewable energy from 1% to 16% in 2019.

Shoreview

Step 4	2018-2020
Step 5	2019-2020

- 100% of Shoreview's housing is within 1 mile of a bike route.
- 94.6% of housing is located within $\frac{3}{4}$ mile of transit routes.
- 11.4% of land is within residential or mixed zoning with dwelling units per acres at or above 7.0.
- 50% of all new housing were affordable housing units in 2019.
- 94.9% of Shoreview's housing is located within $\frac{1}{2}$ mile or 10-minute walk of parkland.
- 50.3% of the city has tree canopy coverage.
- 51.5% of Shoreview residential solid waste is recycled.

South Saint Paul

Step 4	2021
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- 100% of city street lights are LEDs; 90% of city traffic lights are LEDs.
- 100% of housing is located within $\frac{3}{4}$ mile of transit routes.
- 12% of South Saint Paul population carpooled in 2020.
- 94% of South Saint Paul's housing is located within $\frac{1}{2}$ mile or 10-minute walk of parkland.
- The city achieve SolSmart Bronze in 2020.

White Bear Lake

Step 4	2018
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- White Bear Lake reported 6 EV charging stations in 2018.
- 100% of White Bear Lake's housing is located within $\frac{1}{2}$ mile of parkland.

Woodbury

Step 4	2019-2021
Step 5	2019-2021

- Reduced kBtu per square foot per year in city buildings from 83.06 in 2018 to 67.09 in 2020.
- 100% of city street lights, 100% of traffic lights are LEDs; increased city facility LED lighting from 40% in 2017 to 70% in 2020.

- Woodbury leased or owns 2 additional electric vehicles in the city fleet, for a total of 14 (2 Chevy Volts, 6 Mitsubishi Outlanders, 6 plug-in EVs for parks maintenance).
- 100% of housing is located within 1 mile of bicycle route.
- Increased the number of public electric vehicle charging stations from 8 in 2017 to 28 in 2020.
- Increased the number of acres that are parkland from 3386.2 in 2017 to 3480.74 in 2020.
- 100% of residents are located within a ½ mile or 10 minute walk of a park.
- Improved Stormwater Assessment scores from 55 in 2019 to 61 in 2020; adaptation scores from 54 to 60.
- Increased the number of city owned and private renewable energy generation sites from 63 (1045 kW) in 2017 to 116 (1563 kW) in 2019.