**2020 GreenStep Step 4/5 City Performance Metrics**

In order to receive Step 4 recognition for a given year, cities report, by May 1 via a Snap Survey link emailed to them, all the data elements in all of the CORE metrics listed in the table below, along with additional metrics chosen by the city depending on the city's GreenStep Category. Category A, B and C cities, respectively, report an additional 5, 3, or no metrics. Metric elements marked in green below are considered “eligible metric elements” for Step 5 recognition. Cities that report, by May 1, improvement in any three of these eligible metric elements (and sufficient Step 4 metrics for recognition) receive recognition for Steps 4 & 5. Cities that report all data for all the metric elements in blue will have their city operational greenhouse gas number automatically calculated.

[11/8/19]

Metric #1: City Building & Lighting CORE METRIC

|  |  |  |
| --- | --- | --- |
| **1.1** | **kBTU per square foot, per year:** | **kBTU/ft2-year** |
| 1.2 | Dollars spent on energy per square foot, per year: | $/ft2-year |
| 1.3 | Ratio of actual energy use to predicted energy use: | Actual:Predicted |
| **1.3a**  **CO2** | * Electricity consumption for all buildings | kWh/Year |
| **1.3b**  **CO2** | * Natural gas consumption for all buildings | Therms/Year |
| **1.4** | **Street lights owned by the city & utility** | **% LEDs** |
| **1.5** | Traffic Signals: | % LEDs |
| **1.6** | City buildings and property: | % LEDs |
| **1.7**  **CO2** | * Electricity consumption for streetlights and traffic signals | kWh/Year |

Metric #2: Green Buildings OPTIONAL METRIC

Public Buildings:

|  |  |  |
| --- | --- | --- |
| **2.1** | **Number of city-owned green certified buildings:** | **Number of buildings** |
| **2.2** | Identify specific green building frameworks that have been used for city-owned buildings (e.g. LEED, ENERGY STAR®, etc.): | Program |
| **2.2a** | How many buildings were rated under this program? | Number of buildings |
| **2.2b** | If second rating program was used, enter its name here: | Program |
| **2.2c** | How many buildings were rated under this program? | Number of buildings |
| **2.2d** | List any other green energy building programs that were used and how many buildings were rated under each: | Program |
| **2.3** | Municipal green square footage completed last year: | Square Feet |
| **2.4** | Percent of new municipal square footage that was green building certified in the last year: | % |

Private Buildings:

|  |  |  |
| --- | --- | --- |
| **2.5** | **Number of private green certified public buildings:** | **Number of buildings** |
| **2.6** | Identify specific green building frameworks that have been used for private buildings (e.g. LEED, ENERGY STAR, etc.): | Program |
| **2.6a** | How many buildings were rated under this program? | Number of buildings |
| **2.6b** | If second rating program was used, enter its name here: | Program |
| **2.6c** | How many buildings were rated under this program? | Number of buildings |
| **2.6d** | Enter any other green energy building programs that were used and how many buildings were rated under each: | Program |
| **2.7** | Enter the **private** green square footage completed last year: | Square Feet |
| **2.8** | Percent of new private square footage that was green building certified in the last year: | % |

Metric #3: City Fleets CORE METRIC

|  |  |  |
| --- | --- | --- |
| **3.1** | Annual vehicle miles traveled (VMT) for **gasoline** fleet: | Miles per year |
| **3.2** | **Average MPG for gasoline fleet** | **Miles per gallon** |
| **3.3** | Annual vehicle miles traveled for **diesel** fleet | Miles per year |
| **3.4** | **Average MPG for diesel fleet** | **Miles per gallon** |
| **3.5** | * Number of city-owned/leased full electric **electric vehicles** in city fleet | Number of EVs |
| **3.6**  **CO2** | Gallons of diesel consumed | Gallons/Year |
| **3.7**  **CO2** | Gallons of gasoline consumed | Gallons/Year |
| **3.8**  **CO2** | Gallons of e85 consumed | Gallons/Year |

Metric #4: Infrastructure for Walking and Biking OPTIONAL METRIC

|  |  |  |
| --- | --- | --- |
| **4.1** | Miles of new or reconstructed sidewalks & trails completed in the past year | Miles of sidewalk & trails |
| **4.2** | **Percentage of housing within 1 mile of a bicycle route** | **%** |
| **4.3** | Walk Score for your city or downtown | Walk score |

Metric #5: Car, Transit and Bike Options OPTIONAL METRIC

|  |  |  |
| --- | --- | --- |
| **5.1** | **Number of public electric vehicle charging stations:** | **Number of stations** |
| **5.2** | Number of public alternative fueling stations (e.g. e85, CNG): | Number of stations |

Shared Services:

|  |  |  |
| --- | --- | --- |
| **5.3** | Does your city have a bike sharing service? Enter yes or no: | Yes or No |
| **5.4** | Does your city enable car or ride-sharing services? Enter yes or no: | Yes or No |
| **5.5** | Number of telecommuting businesses/services: | Number of services |
| **5.6** | Is the city served by weekday transit? Enter yes or no: | Yes or No |
| **5.7** | Does the city have structured transit routes? Enter yes or no: | Yes or No |
| **5.8** | Percent of housing units within 3/4 miles of transit routes: | % |

Metric #6: Transportation Miles & Modes CORE for Cat. A & B Cities; OPTIONAL for Cat. C Cities

Vehicle Miles Traveled:

|  |  |  |
| --- | --- | --- |
| **6.1** | **City population: Vehicle miles traveled/person, per day:** | **Miles/person/day** |
| **6.2** | **City employees in single occupancy vehicles: Vehicle miles traveled per person, per day:** | **Miles/person/day** |
| **6.3** | Percent of city population commuting 20 or fewer minutes: | % |
| **6.4** | Percent of city employees commuting 20 or fewer minutes: | % |

Transportation Mode of Commuters:

|  |  |  |
| --- | --- | --- |
| **6.5** | Percent using single-occupancy vehicle: | % |
| **6.6** | Percent using a car/van pool & ride sharing: | % |
| **6.7** | Percent using transit: | % |
| **6.8** | Percent who bike or walk: | % |
| **6.9** | Percent working from home/telecommuting: | % |

Metric #7: Land use OPTIONAL METRIC

|  |  |  |
| --- | --- | --- |
| **7.1** | Percent of land within commercial/mixed zoning districts built with a FAR at/above 1.0 | % |
| **7.2** | Percent of land within residential or mixed zoning districts with dwelling units per acre at/above 7.0 | % |
| **7.3** | Market value per acre | Dollars per acre |
| **7.4a** | Location affordability index number: housing + transportation | Index number |
| **7.4b** | Location affordability index number: housing | Index number |
| **7.5** | Acres of new development during 2018 on previously developed land | Acres |
| **7.6** | **New affordable housing units added in 2018 as a percent of all new 2018 housing units** | **%** |

Metric #8: Open Space, Parks, Trees CORE METRIC

|  |  |  |
| --- | --- | --- |
| **8.1** | Percent of total city acres in open space: | % |
| **8.2** | Acres of parkland: | Acres |
| **8.3** | Percent of housing within 1/2 mile (a 10 minute walk) of parkland: | % |
| **8.4** | Percent of canopy coverage: | % |
| **8.5** | Three most prevalent tree species (by percent genus): | Genus |
| **8.5a** | What percent of canopy coverage is made up by the most prevalent genus? | % |
| **8.5b** | What percent of canopy coverage is made up by the second most prevalent genus? | % |
| **8.5c** | What percent of canopy coverage is made up by the third most prevalent genus? | % |
| **8.6** | **Net number of new trees planted:** | **Number of trees** |
| **8.6a** | **% of 8.6 # ‘likely to thrive’** | **%** |

Metric #9: Storm Water CORE METRIC

|  |  |  |
| --- | --- | --- |
| **9.1** | **Assessment percent from the GreenStep Municipal Stormwater Management Assessment** | **%** |
| **9.2** | **Climate Adaptation Stormwater Score: assessment percent from the GreenStep Municipal Stormwater Assessment, scoring only climate resilience questions** | **%** |

Metric #10: Drinking Water OPTIONAL METRIC

|  |  |  |
| --- | --- | --- |
| **10.1** | **Residential gallons used per person per day** | **Gallons/person/ day** |
| **10.2** | **Business gallons used per job per day** | **Gallons/job/day** |
| **10.3a** | **Annual city operations gallons: summer (June-October)** | **Gallons/year** |
| **10.3b** | **Annual city operations gallons: non-summer (Nov-May)** | **Gallons/year** |
| **10.4** | Ratio of maximum day use to average daily use | Peak:Average |
| **10.5** | Annual energy used per million gallons of water distributed | MMBtus |
| **10.6** | Annual cost in $ spent per million gallons of water distributed | $/million gallons |
| **10.7** | **Percent of annual losses in drinking water system** | **%** |
| **10.8** | Trend of source water levels: falling, stable, or rising |  |
| **10.9**  **CO2** | * Annual electricity used to treat and distribute water | MWh/Year |
| **10.10**  **CO2** | * Annual Natural gas used to treat and distribute water | Therms/Year |

Metric #11: Waste Water CORE METRIC for Cities with wastewater collection system

|  |  |  |
| --- | --- | --- |
| **11.1** | Residential gallons of waste water produced/person per day | Gallons/person/day |
| **11.2** | Business gallons of waste water produced per job, per day | Gallons/ job/day |
| **11.3** | Annual energy used per million gallons treated (report only if you own a treatment facility) | MMBtu/million gallons |
| **11.4** | Annual operating cost in dollars per million gallons treated (report only if you own a treatment facility) | $/Million gallons |
| **11.5** | **Ratio of Inflow and Infiltration volume to total volume entering the wastewater collection system** | **I&I:total volume** |
| **11.6**  **CO2** | Annual electricity used to treat wastewater | MWh/Year |
| **11.7**  **CO2** | Annual natural gas used to treat wastewater | Therms/Year |

Metric #12: Surface Water OPTIONAL METRIC

|  |  |  |
| --- | --- | --- |
| **12.1** | Percent of lake, river, and wetland shoreline with at least 50' vegetation buffer | % |
| **12.2a** | Percent of water bodies in the city showing at least good clarity readings OR | % |
| **12.2b** | Number of citizen lake/river monitors | Number of monitors |
| **12.3** | ***One city-defined metric or index number concerning surface water*** *(ex. % impaired waters, or other)* |  |

Metric #13: Solid Waste OPTIONAL METRIC

|  |  |  |
| --- | --- | --- |
| **13.1** | **Residential solid waste generated/city resident per day:** | **Lbs** |
| **13.2** | **Commercial solid waste generated per job, per day:** | **Lbs** |
| **13.3** | **Percent of residential solid waste recycled** | **%** |
| **13.4** | **Percent of residential solid waste composted** | **%** |
| **13.5** | City operations solid waste generated per year | Tons per year |
| **13.6** | City operations construction & demolition waste per year | Tons per year |
| **13.6a** | What percent of city operations construction and demolition waste is reused? | % |
| **13.6b** | What percent is recycled? | % |
| **13.6c** | What percent is landfilled? | % |
| **13.7**  **CO2** | City operations landfilled each year | Tons per year |
| **13.8**  **CO2** | City operations incinerated each year | Tons per year |

Metric #14: Renewable Energy CORE METRIC

|  |  |  |
| --- | --- | --- |
| **14.1** | **Number of city-owned and private renewable energy generation sites** | **Number of sites** |
| **14.2** | **Generation capacity of city-owned and private renewable energy sites** | **kW** |
| **14.2a** | **Storage capacity of renewable energy, generated by city-owned and private renewable energy sites** | **kW** |
| **14.3 CO2** | Annual production at city-owned renewable energy generation sites | MWhr/year |
| **14.4**  **CO2** | Annual renewable energy purchases by the city | MWhr/year |
| **14.5** | Number of non-city entities participating in renewable energy purchasing/green power programs | Number of entities |
| **14.6** | Percent of total city energy use that is generated and purchased renewable energy | % |
| **14.7** | Percent of total city operations energy use that is purchased from a community solar garden | % |

Metric #15: Local Food OPTIONAL METRIC

|  |  |  |
| --- | --- | --- |
| **15.1** | **Number of local food venues** | **Number of venues** |
| **15.2** | Percent of housing within 1 mile of a local food venue | % |
| **15.3** | Percent of housing within 1 mile of fresh fruits and vegetables | % |

Metric #16: Jobs & Employment OPTIONAL METRIC

|  |  |  |
| --- | --- | --- |
| **16.1** | Jobs |  |
| **16.2** | Employment |  |
| **16.3** | Income |  |
| **16.4** | Poverty |  |

Metric #17: Climate CORE METRIC for Regional Indicator Cities

|  |  |  |
| --- | --- | --- |
| **17.1** | **Greenhouse gas emissions from travel** | **Tonnes CO2*e*** |
| **17.2** | **Greenhouse gas emissions from waste** | **Tonnes CO2*e*** |
| **17.3** | **Greenhouse gas emissions from (non-transportation) energy** | **Tonnes CO2*e*** |
| **17.4** | Total citywide GHG emissions | Tonnes CO2*e* |
| **17.5**  **CO2** | Total city operations GHG emissions [automatically calculated] | Tonnes CO2*e* |

Metric #18: Social Vitality/Additional Metrics OPTIONAL METRIC

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **18.1** | **Social vulnerability** | | | |  |
| **18.2** | **Livability Score** | | | |  |
| **18.3** |  | | | |  |
| **18.4** |  |  |  |  |  |
| **18.5** |  | | | |  |