



Sample Standard Climate Metrics

HOW TO USE THEM AND WHERE TO FIND THEM

Metric	What it's used for	Where to get it
Buildings		
Total energy use from buildings (by sector: residential, industrial, commercial, municipal)	To understand building energy sources, consumption levels, and opportunities to reduce	Utility (for electric and natural gas) Oil, propane, and other less common fuel sources often must be estimated
Total greenhouse gases (GHGs) from buildings (by sector: residential, industrial, commercial, municipal)	Assess opportunities to reduce emissions	GHG inventory
Total square footage of buildings by sector (residential, industrial, commercial, municipal)	This data combined with the total energy use by sector will allow you to calculate the energy use intensity (EUI), which indicates how efficient buildings are	Assessors database
Age of buildings by sector	Helps you target outreach efforts for conversions to heat pumps and deep energy retrofits	Assessors database
Number of Net Zero, LEED, or EnergyStar Buildings in the community	To show we know how to build better and more efficiently	Building/Permitting office LEED EnergyStar
Energy		
Total energy use (by sector- residential, industrial, commercial, municipal)	Assess opportunities to reduce energy use and associated emissions	Utility (for electric and natural gas) Oil, propane, and other less common fuel sources often must be estimated
Percent of electricity sourced from renewable sources (Solar, wind, hydro)	How much renewable energy already on the grid and how much more we need to get to 100%	Utility (usually available on their website or in a strategic document). You can also get it from your electric power market .
Solar roof potential	Helps identify which roofs in your community are a good fit for solar- helps you target your outreach effort	Project Sunroof



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Equity		
Social vulnerability index (SVI) <i>Social vulnerability refers to a community's capacity to prepare for and respond to extreme events</i>	The Centers for Disease Control and Prevention (CDC) SVI depicts the social vulnerability of communities, at census tract level, within a specified county based on census-derived factors related to economic data, education, family characteristics, housing, language ability, ethnicity, and vehicle access.	CDC Social Vulnerability Index (SVI) Map , GIS
Mobility & Transportation		
Total vehicle miles travelled	Understand how much we are driving	VMT data- from your specific MPO/ RTC or State DOT
Total GHGs from transportation	Demonstrate the impact of all that driving	GHG Inventory
Commute Mode Share	Indicates how people are getting to and from work	Census
Miles of bike facilities	Assess opportunities to transition community members to another commute mode	DPW or Planning Dept.
Number of electric vehicles registered in the community	Understand the baseline starting from.	Registry of motor vehicles, City Clerk (excise tax)
Natural Resources		
Percent of community covered by tree canopy	Helps identify areas that are more susceptible to extreme heat and urban heat island	GIS
Gallons of water consumed per person per day (GCPD)	Understanding how much water is used per person helps identify opportunities to reduce. Some water utilities are able to break the information down into indoor and outdoor use as well.	Water utility



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Public Health & Community Preparedness		
Number or percent of seniors living home alone	Seniors living alone are the population most likely to be impacted by a severe storm event	Council on Aging, Reverse 911, Census
Percent of population living in the floodplain	For those where flooding from extreme events or sea level rise is an issue. Tells us who we need to engage and where we need to focus resilience and adaptation actions	GIS
Percent of population living in an area susceptible to urban heat island	For those where extreme heat is an issue. Tells us who we need to engage and where we need to focus resilience and adaptation actions	GIS
Percent of residents signed up for emergency communications	Helps understand the local government's current reach related to extreme climate events and other emergencies	Reverse 911, Police Dept.
Waste		
Total tonnage of waste sent to landfill or incinerator	Tells us how much we are disposing of. If you can also get the waste characterization, you will know which materials are getting thrown away as well	Waste Hauler and/or Department of Public Works/Solid Waste
Percent of waste diverted through recycling or composting	Tells us how well our diversion programs are working. Might want to also think about ways to reduce or reuse first. Understanding what is getting thrown away (through waste characterization will help with that).	Waste Hauler and/or Department of Public Works/Solid Waste