



## **#ClimateMayors Are Leading the Way**

### ***Cities Climate Action Compendium***

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Climate Mayors, founded in 2014, is a bipartisan, peer-to-peer network of U.S. mayors working together to demonstrate leadership on climate change through meaningful actions in their communities, and to express and build political will for effective federal and global policy action. <http://climatemayors.org/>

The information that follows below is a compendium of climate actions from many Climate Mayors cities that includes:

- Emission reduction targets and dates;
- Signification climate actions and policies; and
- New or recent notable actions from cities.

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## **Albany, NY**

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### **Targets:**

- 2035 — Achieve 100% clean, renewable energy
- 2020 — Achieve 20% energy reduction in municipal buildings
- 2030 — Divert 65% of waste from landfill
- 2030 — Reduce CO<sub>2</sub> emissions from wastewater and water treatment by 10%

### **Significant Climate Actions:**

- Albany Energy Plan — the plan was developed over a year of in-depth analysis and multiple stakeholder meetings. The finished plan, which was released in early 2015, provides a comprehensive approach to energy use reduction and management, both within municipal operations and city-wide.
- Climate Action Plan along with Albany 2030 Comprehensive Plan — the climate action plan sets goals for the reduction of greenhouse gas emissions and outlines strategies for achieving these goals.
- Bicycle Master Plan - created a plan to identify a network of bicycle routes to improve cycling as a viable mode of transportation throughout the city.
- Member of Compact of Mayors
- Certified Climate Smart Community
- Awarded 3-STAR Community for national leadership in sustainability
- Established Mayor’s Office of Energy & Sustainability
- Bike share program launching July 2017

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## Ann Arbor, MI

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### Targets:

- 2025: reduce GHGs 25% from 2000 levels
- 2050: reduce GHGs 90% from 2000 levels

### Significant Climate Actions:

- City Council supported self-funding for community energy programs and community engagement on climate change (the Ann Arbor Climate Partnership)
- Continued resourcing for Michigan’s first Property Assessed Clean Energy (PACE) program
- Largest city facility solar installation (42 kW) on major affordable housing site a2energy Revolving Loan Fund for Rental Housing created
- First bike share program (ArborBike) launched summer of 2015
- Feasibility studies starting for expanded organics collection and potential community biodigester

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## Ashville, NC

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### Targets:

- Municipal:
  - 80% below 2002 GHG levels by 2050
  - 4% Municipal carbon reductions - yearly (1,114 Metric Tons/Year)

- 50% Waste reduction goal
- Food Policy Action Plan
- Community:
  - Presently being created through the Energy Innovation Task Force to prevent Duke Energy Progress' peaker unit from being built. - IN PROGRESS

**Significant Actions:**

- Automated meter reading
- 7 Hybrid Buses
- CNG Fueling Station
- CNG Garbage Trucks
- Utilizing B20
- 10k LED Streetlights
- Building automation software
- ISO 14001
- Reduced municipal GHG by 29%

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## Aspen, CO

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**Targets:**

- 30% by 2010 and 80% by 2050 below 2004 GHG baseline
- 100% renewable utility by 2015 – achieved

**Significant Climate Actions:**

- Achieved 100% renewable energy for local utility
- Funding for energy efficiency work comes from a carbon tax on development (Renewable Energy Mitigation Program)
- Reduced community GHG emissions in 2014 7.5% while population and taxable sales grew
- Reduced City-operations GHG emissions in 2015 by 42%
- Implemented first rural Bus Rapid Transit system in US – serving 2 million passengers a year
- Implemented first rural Bike Share systems in US
- Member of Compact of Mayors, ICLEI
- Creating regional climate resiliency plan to protect against drought, fires, mudslides and changing snowpack
- Participating as a semi-finalist in the Georgetown University Energy Prize, competing to win \$5 million if Aspen reduces residential energy more than other competing towns

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## Atlanta, GA

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### Targets:

- 20% by 2020, 40% by 2030, and 100% by 2035, below 2009 GHG baseline

### Significant Climate Actions:

- GHG inventories are performed regularly and follow GPC standard
- Atlanta's Climate Action Plan was adopted in 2015
- The City of Atlanta joined the Compact of Mayors in 2015
- In 2015, the City of Atlanta was recognized by the CDP as a top 10 worldwide city for the quality of its GHG emissions report
- The Mayor of Atlanta participated in the Local Climate Leaders meeting at the COP21 negotiations in Paris
- The Mayor of Atlanta is a member of the Board of the Covenant of Mayors

### New Actions to Announce:

- On May 1st, 2017, the City of Atlanta adopted a resolution to use 100% clean energy for city operations by 2025 and citywide by 2035

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## Austin, TX

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### Targets:

- Net zero community-wide greenhouse gas emissions by 2050.
- Municipal operations powered by 100% renewable energy by 2012 and all operations carbon neutral 2020.
- Austin Energy: 55% renewable energy delivered to customers by 2015. This includes goals of 1000 MW of demand side management, over 1500MW of wind, 600MW of solar, energy storage, and all coal ownership retirement.

### Significant Climate Actions:

- Inventories: We conduct a city-wide inventory every 3 years using ICLEI-USA's U.S. Community Protocol and annually using the Climate Registry for municipal operations. Our municipal inventory has been third party verified twice.
- The Austin Community Climate Plan was adopted by City Council in June of 2015.
- In October 2015, the Austin City Council approved power contracts for Austin Energy to purchase over 400MW of utility scale solar power.

## **New Actions to Announce:**

- In October 2015 Austin City Council authorized Austin Energy to secure up to 450MW of additional solar PPAs. When installed, and combined with the 30MW already built, the 150MW already authorized but not built, Austin should be at or near the top solar- powered cities in America. Council also directed Austin Energy to pursue bids to purchase or own 150MW more by 2019.

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## **Berkeley, CA**

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### **Targets:**

- Community-wide GHG reductions of 80% below 2000 levels by 2050; this translates to 33% below 2000 levels by 2020.
- Zero waste by 2020.

### **Climate Actions:**

- Building Energy Saving Ordinance (BESO): Effective December 1, 2015, Berkeley's Building Energy Savings Ordinance (BESO) is designed to catalyze investment in energy-saving upgrades in homes and businesses. BESO requires property owners to conduct a building energy assessment that provides tailored recommendations for energy-saving opportunities and incentives for all commercial and multifamily buildings (phased in by size) and residential homes at time of sale. BESO is designed to uncover opportunities to for building owners to minimize wasted energy, improve occupant comfort, and lower utility bills.
- Solid Waste: GHG emissions from solid waste decreased 59% between 2000 and 2013, and 18% between 2012 and 2013 alone.
- Water: The City reduced water consumption in municipal operations by 29% compared to 2013 levels.
- **Transportation:**
  - EVs: The number of EVs in Berkeley has nearly tripled in the last 2 years, bringing the estimated total to approximately 750 EVs. The City also launched a Residential Curbside EV Charging Pilot program in December 2014. This Pilot offers home charging opportunities for residents that lack off-street parking by allowing for the creation of new front yard spaces for EV charging or for curbside EV charging stations.
  - Parking Demand Management: The City launched the goBerkeley Pilot Program in 2013 which showed that parking and transportation demand management strategies can be effectively linked to improve parking conditions and reduce congestion and GHG emissions

**New Actions to Announce:**

- 2013 GHG Emissions Trends: Berkeley reduced its community-wide GHG emissions by 9% between 2000 and 2013.

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## Boston, MA

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**Targets:**

- 25% reduction in greenhouse gas emissions by 2020, below 2005 level, and carbon neutral by 2050

**Significant Climate Action:**

- Mayor Walsh serves as the North American Co-Chair on the C40 steering committee.
- Rated the most energy efficient city in the U.S. by ACEEE three years in a row.
- Won international award for Greenovate Boston and community engagement at the Paris climate talks.
- Compliant with the Global Covenant of Mayors for Climate and Energy greenhouse gas emissions reporting Compact.
- Updated the City's Climate Action Plan in 2014 to reach climate goals.
- Launched the Carbon Free Boston initiative to support rapid action to become carbon neutral by 2050.
- Launched the Renew Boston Trust initiative to pursue energy efficiency and resiliency in Boston's building portfolios by using a proven self-funded financing model.

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## Boulder, CO

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**Targets:**

- 80% reduction in community-wide GHG emissions by 2050, below 2005 baseline
- 100% clean, renewable electricity by 2030
- 80% reduction in city operation GHG emissions by 2030, below 2008 baseline
- Member of the 22 city member Carbon Neutral Cities Alliance (CNCA)

**Significant Climate Action:**

- First in the nation to pass a Climate Action Plan (CAP) tax to fund initiatives to reduce GHG emissions

- Completed baseline GHG Inventory, and ones in 2010 and 2012. Starting in 2015, performing annual inventories.
- City facilities have saved more than 20% to date in emissions through a performance contract initiated in 2009
- In 2010, the city adopted the SmartRegs ordinance to help promote and improve energy efficiency in rental housing units
- An accelerated Net-Zero Energy Code, adopted in 2013, requires new and remodeled residential and commercial buildings to meet net-zero energy by 2031
- Achieved Solar Friendly Community Platinum designation in 2014 and introduced the Boulder Solar Tool (<http://mapdwell.com/boulder>) in 2015 to aid the community's understanding of individual building and aggregated urban rooftop solar PV potential
- The Universal Zero Waste Ordinance was adopted in July 2015
- The Building Performance Ordinance was adopted in October 2015, requiring all large commercial and industrial buildings to rate and report their energy use and perform energy efficiency over time. 100% compliance rate over the first two years.
- Recently developed a Local Energy Impact Offset fund
- Adopted the 2017 City of Boulder Energy Conservation Code, among the most stringent energy code in the country
- Boulder launched a community-wide engagement process around climate commitment strategy that will extend through Q1 of 2016

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## Burlingame, CA

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### **Targets:**

- 15% reduction in greenhouse gas emissions by 2020, below 2005 level
- 80% reduction by 2050

### **Significant Climate Action:**

- Purchasing 100% renewable energy for municipal electricity accounts as part of Peninsula Clean Energy, the region's community choice aggregation program.
- Installed two electric vehicle charging stations by downtown district and train station.
- Updating the City's 2009 Climate Action Plan as part of General Plan Update process.
- Retrofitted all of City's street lights, over 800, with LEDs.
- Removed lawn at the Police Station and replaced with drought tolerant landscaping

- Provide 5 free local shuttles transporting people between transit centers and job areas.

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## Burlington, VT

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### Targets:

- Leveling off the growth of emissions by 2016 down to 2010 levels;
- Reduction in 2010 levels by 2025.

### Signification Climate Actions and Policies:

- First municipal utility to source 100% of electricity from renewable sources;
- Thanks to energy efficiency measures, use less electricity now than in 1989;
- City transitioning to net zero energy in thermal, electric and transportation sectors by 2026.

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## Chicago, IL

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### Targets:

- Reduce GHG emissions 25% below 1990 levels by 2020, and 80% below 1990 levels by 2050.

### Significant Climate Action:

- Released new 2015 GHG Inventory Report in January 2017. Key findings show a 7% reduction in GHG emissions from 2010 to 2015, due to increased energy efficiency, de-carbonization of the electricity supply, and improvements in citywide recycling.
- Energy:
  - Through the voluntary Retrofit Chicago program, have completed energy efficiency retrofits in 23,000 homes and 132 buildings spanning over 70 million square feet, saving nearly \$17 million/year and over 91,000 metric tons of avoided GHG emissions.
  - Passed an energy benchmarking & disclosure ordinance in 2013; now have 2,700 reporting buildings (90%+ compliance rate) and have seen up to 4% energy reduction in buildings.
  - Streamlined permitting process for solar through the Chicago Solar Express program and developed a bulk purchasing program for solar PV.
- Transit:



- Prioritized rapid transit investments in the Chicago Transit Authority, which has completed or initiated major updates to the rail infrastructure on multiple lines while also increasing service.
- Passed two new transit oriented development ordinances to incentivize less car-dependent property development near transit.
- Named by Bicycling Magazine as the Best Bike City in the U.S. due to the significant investments made by Mayor Emanuel in Divvy (Chicago's bikeshare network) and due to the creation of 108 miles of protected bike lanes.
- Parks and Trees:
  - Developed Building on Burnham, a comprehensive strategy to invest in Chicago's lakefront, natural areas, and recreational areas across the city
  - Planted 26,000 trees since Mayor Emanuel took office
- Waste and Recycling:
  - Expanded recycling to 60,000 households in 2013. Increased the amount recycled by 39,000 tons from 2010-2015.
- Joined the Compact of Mayors
- Member of the 100 Resilient Cities Initiative

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## Cleveland, OH

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### **Targets:**

- City operations: Reduce GHG emissions 10% below 2010 levels by 2016, 20% by 2020, and 45% by 2030.
- Citywide: Reduce GHG emissions 16% below 2010 levels by 2020, 40% by 2030, and 80% by 2050.

### **Significant Climate Action:**

- The City has reduced emissions from its own operations by 9% compared to 2010.
- Completed citywide 2015 GHG Inventory in 2017. Key findings show a 4% reduction in GHG emissions from 2010 to 2015 while at the same time creating economic growth. If industrial emissions are not included, the city is showing an 11% reduction.
- Enhancing quality of life is at the heart of implementing the Cleveland Climate Action Plan. Results include:
  - 25 resident-led, neighborhood-based projects supported through the Cleveland Climate Action Fund.
  - More than 160 home energy retrofits through the Cleveland Energy \$aver

- program, which serves to complement the existing weatherization program
- \$40 million grant from the U.S. Department of Energy to complete the first freshwater offshore wind project in North America
- More than 100 residential solar installs through the Solarize Cleveland and Countywide solar co-op programs
- 46 miles of new bike infrastructure installed from 2014-2016
- Launch of the Cleveland Tree Plan, with a goal of 50,000 new trees by 2020 and increase canopy from 19% to 30% by 2040
- The Cleveland 2030 District now has more than 40 building owners, representing more than 40 million square feet, all committed to significantly reducing energy use, water use, and emissions from transportation
- There are more than 20 LEED certified educational facilities in Cleveland
- Both district energy systems in Cleveland have transitioned away from coal
- Cleveland is a leader in supporting local food, with some of the largest urban farms and greenhouses in the county along with more than 200 community gardens
- The Greater Cleveland Regional Transit Authority's HealthLine was named the best bus rapid transit in the country
- Joined the Compact of Mayors and completed all the phases

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## Columbus, OH

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### **Targets:**

- Reduce GHG emissions 30 percent by 2020, 40 percent by 2030 (city operations- 2005 baseline) and 20 percent by 2020 (community-wide- 2013 baseline).
- Develop a climate preparedness plan by 2017.

### **Significant Climate Actions:**

- Released the climate adaptation plan focused on drinking water resources, Sustaining Scioto. Currently working on a vulnerability assessment and climate adaptation plan to address other impacts associated with climate change.
- Columbus' Fleet was voted greenest fleet in North America in 2011 – with 167 CNG vehicles in the fleet and anti-idling devices on all vehicles – and have reduced petroleum use and greenhouse gas emissions since 2005. Central Ohio Transit Authority goal to replace all buses to run on CNG by 2030. There is a network of infrastructure open to the public to support adoption of alternative fuel

vehicles, CNG and EV.

- As of 2015, the city is purchasing 14% of power used for city facilities in renewables, target of 100% by 2020
- As of 2013, community wide GHG emissions are down 14%
- As of 2014, municipal GHG emissions are down 25%

**New Actions to Announce:**

- September 2015 – Columbus launched an aggressive urban tree canopy campaign, Branch Out Columbus, a collaboration of over 20 organizations, whose goal is to plant 300,000 medium sized trees by 2020, raising the canopy from 22% to 27%. Including a goal to build four urban tree nurseries on vacant and abandoned land within low-income/ low- tree canopy neighborhoods by 2020.

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## Cooperstown, NY

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**Significant Climate Actions:**

- Our Climate Change resolution has become a model for other communities throughout New York state.
- met our electricity needs through the purchase of renewable energy
- first municipality in the country to divest from fossil fuels (according to 350.org)
- gathered baseline energy usage data
- increased energy efficiency by converting many Main Street lampposts to LED (with more to come)
- been converting building lighting to LEDs
- recently received a grant to install two EV chargers in the Doubleday Field parking lot
- added insulation to village buildings
- Successfully installed on-site solar-powered electricity at Three Mile Point and are still pursuing larger solar energy projects.

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## Dallas, TX

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**Targets:**

- Dallas has set a goal to Reduce City operational emissions to 39% below 1990 levels by 2017.

**Significant Climate Actions:**

- Member MNCAA – Mayor’s National Climate Action Agenda.
- Member USDN – Urban Sustainability Directors Network.
- Member ICLEI – Local Governments for Sustainability.
- Member USCOM – US Conference of Mayors. Host of 2015 Annual Meeting.
- Met the USCOM Climate Protection Agreement goal of reducing community-wide emissions by 7% over 1990 levels by 2012.
- Dallas has conducted two greenhouse gas emission inventories and is working on its third.
- Since 2015, Dallas buys all grid-based energy, roughly 720M kWh, from 100% renewable sources via Renewable Energy Credits. Dallas began buying renewable energy (40%) in 2008, increasing the renewable content (50%) in 2013 before moving to 100% and being listed at that time as the #1 EPA Green Power Partner for Local Government.
- Dallas generates roughly 4% of its own energy needs from waste streams.
- In FY15-16, City of Dallas employees reduced VMT by 6,000,000 miles. This resulted in an emissions savings greater than 3,000 tons CO2 and 15 tons ozone.
- City of Dallas non-emergency sedan fleet is over 60% alternative fueled vehicles. This results in an emissions reduction greater than 5,000 tons CO2.
- City of Dallas operates two dedicated local air programs: Air Quality Compliance; and, Ambient Air Monitoring on behalf of the State of Texas.
- Since 2003, City of Dallas requires all public buildings to be built to LEED Silver or better. Current inventory of new or replacement buildings: 32 LEED Silver or better.
- Three recently completed energy efficiency retrofits resulted in 26M kWh energy use reductions.
- Since 2009, all new construction in Dallas, private or public, must be built to a green standard such as LEED or other equivalent system.
- Largest surface light-rail system in the United States with 64 stations on four lines spanning 93 miles offering 29.8 million passenger trips serving Dallas, Carrollton, DFW Airport, Farmers Branch, Garland, Irving, Plano, Richardson, and Rowlett. Ties with commuter rail system to connect to neighboring cities of Irving, Hurst, Richland Hills, and Fort Worth.<sup>1</sup>
- The City of Dallas is certified to the ISO 14001 standard (International Standards Organization) for Environmental Management Systems to reduce the pollution associated with its operations, comply and exceed applicable regulations, and to

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<sup>1</sup> Dallas Area Rapid Transit: Reference Book.  
2017. <http://www.dart.org/about/dartreferencebookmar17.pdf>

continually look for areas in which to improve its protection and stewardship of environmental resources.

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## Denver, CO

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### **Targets:**

- Denver has set a goal to return to 1990 emissions levels by 2020. As of 2015 Denver was on target to meet this goal.
- Denver has set a goal for citywide energy use in 2020 to be no greater than it was in 2012, despite population increases of over two percent annually, while reducing the fossil fuel content of that energy by 50%.
- Denver has set an 80 x 50 goal and is currently developing strategies to hit that target.

### **Significant Climate Actions:**

- Mayor Hancock has signed on to the Mayor's National Climate Action Agenda and the Compact of Mayors.
- Denver has conducted annual greenhouse gas inventories since 2009, helping to inform the 2015 climate action plan update.
- Denver was one of the first major cities to complete a climate vulnerability assessment and adaptation plan, released in 2014.
- By 2020, Denver will reduce the energy use intensity (EUI) of its more than 6 million square foot portfolio of municipal government buildings by 20%; it is ahead of pace, already having reduced its EUI by 9%.
- Denver was designated as a Solar America City in 2008 and the first Solar Friendly Community in 2012 for its work to simplify the solar permitting process, helping to increase solar capacity in the community to 23 Megawatts through 2013.
- In 2015, Denver International Airport (DEN) was the 4th U.S. airport group certified to Airports Council International's Airport Carbon Accreditation standard, the only institutionally-endorsed, carbon management certification standard for airports.
- DEN also hosts 10 megawatts of solar, one of the largest totals of any airport in the world, supplying a significant portion of the city's more than 20M kWh of solar energy production annually.
- Denver expanded its use of cleaner-burning alternative fuels by opening its first Compressed Natural Gas (CNG) fueling station in 2014 and purchased 40 refuse trucks that run on CNG.
- Denver is the only major city in the United States that requires all city agencies to

participate in the ISO 14001 Environmental Management System, as certified by audit.

#### **New Actions to Announce:**

- Denver is committed to developing innovative transportation solutions to move our people safer, smarter and more sustainability through a partnership with the Rocky Mountain Institute and with the Colorado Department of Transportation's Technology in Transportation effort.
- In 2016 Denver amended its building code to update to the 2015 version of the International Energy Conservation Code, and added language requiring that all new single-family homes include wiring for electric vehicles.
- In 2016 Denver adopted an ordinance to require all commercial buildings of 25,000 sq. ft. or larger to benchmark and disclose energy consumption through the U.S. EPA's Energy Star tool.
- Denver will host the 2017 Solar Decathlon.

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## **Dubuque, IA**

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#### **Targets:**

- The 50% by 2030 Community Climate Action Plan commits to community-wide reduction of GHGs 50% below 2003 by 2030.

#### **Significant Actions:**

- In 2015, the community completed its first GHG inventory since adopting the 50% target in 2013.
  - The inventory showed an 11% reduction to date.
- In 2016, the City Council approved the creation of the Resilient Community Advisory Commission. The purpose of the commission, as defined through a community engagement process, is to advise on city policies and practices to assure resilient outcomes; facilitate the ability to adapt to factors influencing the social/cultural, economic and environmental wellbeing of the community; prevent, prepare for, and recover from adverse vulnerabilities and change through coordination, data analysis, evaluation and citizen engagement.
- In 2016, the City approved construction of rooftop solar arrays on five of our six fire stations, building on energy efficiency improvements taken at those facilities. The five arrays will total 150.8 kW, and offset anywhere from 28-100% of the electricity consumption at each station, when completed in the spring of this year.
- In 2013, the Water & Resource Recovery Center was constructed to be a net-zero energy facility. In 2015, the facility's electricity demands had dropped 70-

75%, and they saved \$537,000 in annual electricity and fuel-oil savings. The facility now pumps excess methane created through anaerobic digestion into the natural gas pipeline, and is in the process of developing a system to fuel bioCNG municipal vehicles in the future.

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## Durham and Durham County, NC<sup>2</sup>

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### Targets:

- Municipal:
  - 50% below 2006 GHG levels by 2030
- Community:
  - 30% reduction from BAS from the community 2006 levels by 2030

### Significant Actions:

- Installed a 4.2 MW landfill-methane to electricity generator – enough electricity for 1,900 homes per year. (City)
- Improved government building efficiency by 13% since 2009 (City)
- Replaced all traffic signals with LEDs (City)
- Completed energy retrofits at 708 homes with an average increase in efficiency of 60% in heating months and 30% in cooling months (City)
- Built over 200 affordable housing units to Energy Star or other third-party certification (City)
- Completed an Energy Savings Contract for 7 buildings, including our jail, that is reducing GHGs by more than 3,351 metric tons per year (30%) (County)
- Reduced GHG from government buildings by 14% since 2008 (County)
- Installed 12 public EV charging stations (County) and 4 public/2 government-only EV charging stations (City)
- Increased urban tree planting by 100% since 2014 (City and County)
- Seen a 7% reduction in GHG per capita in the residential sector (City and County)
- Seen a 7% reduction in GHG in the Commercial sector since 2008 (City and County)
- Transitioned to 90 gallon single-stream recycling carts (City and County)

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<sup>2</sup> City of Durham and Durham County have a joint inventory and Action Plan, though they are two separate governments.

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## Edina, MN

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### Targets:

- 30% Greenhouse Gas (GHG) reduction by 2025, 80% reduction by 2050
- Within the next 18 months, lower the City's electricity GHG emissions by 7.5%.
- 750 homes take energy savings actions each year
- Double the number of subscribers to the utility's renewable energy program, Windsource, and double the average subscription amount.
- Businesses reduce and/or offset 2% of electricity usage annually

### Significant Climate Actions:

- Conservation and Sustainability Fund — In 2015, City Council approved the creation of a new initiative, the CAS Fund, which has a full-time staff and budget focused on sustainability. City Council approved an increase in the 2018-2019 budget to support more energy conservation and sustainability capital improvements in City facilities. The fund will increase from \$240k to \$450k in 2018 and \$1M in 2019 and after.
- Edina Energy Action Plan — The plan was developed with in-depth analysis and multiple stakeholder meetings. Approved in 2016, the plan provides a comprehensive approach to energy use reduction and renewable energy support for city operations, residents and businesses.
- PACE – Continued resourcing for Minnesota's first Property Assessed Clean Energy (PACE) program.
- Transit and Fleet – Completing an update to the Bicycle and Pedestrian Master Plan that is identifying gaps in the current system and building a for a connected system. Continuing to optimize our fleet and reduce emissions by transitioning light duty vehicles to hybrids and electric vehicles. For example, our Building Inspections fleet is 60% hybrid and the fleet will be 100% hybrid or electric by 2022.

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## Eugene, OR

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### Targets:

- Climate Recovery Ordinance (2016):
  - Carbon neutral city operations (scope 1 and 2) by 2020.
  - Community wide and city operational use of fossil fuels cut by 50% from 2010 levels by 2030.
  - Reach a GHG emissions level consistent with 350ppm by 2100, resulting



in a 7% annual reduction starting in 2017.

**Significant Climate Actions:**

- Updating the 2010 Climate and Energy Action Plan in 2017.

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## Fayetteville, AR

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**Targets:**

- We are in the process of developing energy efficiency, renewable energy and greenhouse gas reduction targets as part of an Energy Action Plan development.
- 40% waste diversion goal by 2027

**Significant Climate Actions:**

- In 2015, 6.3% of Fayetteville's electricity was derived from renewables.
- In 2015, the community waste diversion rate was 18%, which includes residential, commercial and industrially-generated materials.

**New Actions to Announce:**

- In February 2017 the City launched development of its first Energy Action Plan to focus on Greenhouse Gas Mitigation (City & Community), Energy Efficiency and Greening the Energy Supply. Planned adoption by the end of 2017.

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## Fort Bragg, CA

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**Targets:**

- The City of Fort Bragg's 2012 Draft Climate Action Plan establishes a greenhouse gas emission reduction goal of 15% for the community and 30% for local government by 2020.
- The City's sustainability goals include compliance with California Building Code Zero Net Energy by 2020.

**Significant Climate Actions:**

- On September 26, 2016, by Resolution 3937-2016, Fort Bragg joined the Sonoma Clean Power Authority to implement the Community Choice Aggregation Program within the City of Fort Bragg to promote competitive and renewable energy.
- During the summer of 2017, Fort Bragg saved energy by converting to LED streetlights.

- The Fort Bragg Police Department has increased foot and bicycle patrols and purchased three new electric motorcycles.
- The City continues implementation of low-impact development of storm drains and other green infrastructure projects.
- The City is upgrading the Wastewater Treatment Facility in 2018. Through conversion to an activated sludge plant, the facility will realize a 35% reduction in GHG emissions based on reduced amount of electrical usage and less frequent hauling of sludge.
- In winter of 2017, Fort Bragg is installing two Electric Vehicle charging stations.

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## Fort Collins, CO

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### **Targets:**

- The 2015 Fort Collins Climate Action Plan Framework established greenhouse gas emissions reduction goals of 20% below 2005 levels by 2020; 80% below 2005 levels by 2030
- Carbon neutral by 2050.

### **Significant Climate Actions:**

- Our efficiency programs have saved the energy equivalent of almost 3,750 homes in our community (29,900 megawatt-hours) generating nearly \$38 million in local economic benefits through reduced utility bills, direct rebates and leveraged investment,
- Fort Collins businesses are saving more than \$9.5M annually from improved efficiencies,
- ClimateWise is Fort Collins' free, voluntary program that offers simple solutions to help businesses reduce their impact, save money and gain recognition for their achievements in energy and water conservation, waste reduction, alternative transportation and social responsibility. In 2015, ClimateWise Partners realized \$1,037,000 in annual cost savings by implementing cost-saving strategies to be more efficient and reduce operating costs,
- Increased locally installed solar capacity by more than 3.5X between 2014 and 2015.
- Partnered with three communities to install a 30-megawatt Community Solar Project, reducing our emissions by 1% and increasing our clean energy portfolio by 2%,
- Reduced emissions per capita 25% while experiencing 18% growth in population and 40% growth in GDP,

- Diverted about 60% of waste from the landfill while exploring ways to turn waste streams into profit streams,
- Doubled transit ridership in less than 10 years (2016 will see more than 4 million trips for the first time ever) after significantly increasing investment in transit services, including Bus Rapid Transit and public-private partnerships to support system efficiency and maximize use of taxpayer dollars,
- Incorporated technologies designed to monitor and adjust traffic management in real-time to reduce congestion and emissions, and increase ease of travel by all modes, and
- Recognized as one of six Platinum level Bicycle Friendly Communities.

**New Actions to Announce:**

- The City is currently developing its Climate Action Plan 2020 Strategic Plan to achieve the new GHG reduction targets adopted in 2015.
- Complementary to the 2020 CAP Strategic Plan, an updated Energy Policy was adopted in November 2015 that includes targets for incremental annual reductions in building energy use by 2.5% per year by 2020 and achieving 20% renewables by 2020.
- 2016 Inventory will be released in June of 2017, with preliminary numbers available in April.

## Hoboken, NJ

**Targets:**

- 2022: Become a Net Zero Energy City by consuming energy from alternative and renewable energy sources.
- 2027: Exceed carbon reduction goals established by the Paris Climate Agreement to achieve carbon neutrality.

**Significant Climate Actions:**

- Adopted a comprehensive Green Building & Environmental Sustainability Element of the City Master Plan (attached, website will be launched soon)
- Designated as a Role Model City of the Making Cities Resilient campaign for its flood risk management practices by the United Nations Office for Disaster Risk Reduction
- Appointed a Chief Resiliency Officer and Chief Sustainability Officer
- Launched the first city-wide car sharing program in the US in 2010 known as “Corner Cars,” with 90% of the city’s population located less than a five minute walk from the nearest carsharing space

- Launched the first city-wide bike share program in New Jersey in 2015 known as “Hudson Bike Share,” with 100% of the city’s population located less than a five minute walk from the nearest bikeshare location; it now has more than 20,000 members logging more than 300,000 rides.
- Invested \$90 million to date in stormwater management projects, including 3 resiliency parks capable of storing more than 1.5 million gallons of stormwater
- Partnering with NJDEP, US HUD, and neighboring cities to implement the \$230 million Rebuild by Design project, a comprehensive water management strategy will mitigate coastal flood risk for 85% of the population living in the floodplain
- Partnering with the local electric utility on a \$300 million for the elevation and hardening of electrical substations
- Partnering with NJBPU on a \$150,000 feasibility study for an electrical microgrid to provide redundant power for critical facilities

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## Houston, TX

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### **Targets:**

- 80% reduction by 2050 (2007 baseline)

### **Significant Climate Actions:**

- 80% of the City’s energy coming from renewable sources and a 50 MW solar project soon to come online.
- The City of Houston is also implementing one of the largest LED streetlight conversion in the nation, helping the City meet stringent energy efficiency goals.
- Through Houston’s municipal energy efficiency program, over six million square feet of City facilities are expected to achieve guaranteed energy use reductions of 30%, saving over 22 million kWh of electricity every year, with paybacks of, on average, less than ten years.
- Two new light rail lines recently opened and a transformative redesign of the Houston region’s local bus system launched in 2015. An estimated 20% increase in ridership is expected with the new bus network.
- The City of Houston has completed both municipal and city-wide climate inventories, and is updating its municipal Sustainability Plan.

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## Kansas City, MO

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### Targets:

- 30% reduction in greenhouse gas emissions from 2000 levels by 2020, in municipal operations and citywide
- 80% reduction in greenhouse gas emissions from 2000 levels by 2050
- As of the end of 2013, have reduced greenhouse gas emissions 25% in municipal operations and 4% citywide since 2000

### Significant Climate Actions:

- Unanimous adoption by Mayor & City Council of the KCMO climate action plan in 2008
- Commitment to annual updates to our municipal greenhouse gas emission inventory & triennial updates to our citywide greenhouse gas emission inventory
- Reduction of electricity use in municipal operations by 21% from 2000 to 2013 and achievement of ENERGY STAR certification for City Hall (a 78-year old building) in 2012 with a score of 92
- Utilization of a unique proprietary software system (Enterprise Sustainability Platform) to monitor & manage energy use in municipal buildings
- Installation of 25 kW solar installations on the rooftops of 59 municipal buildings
- Installation of 13 electric vehicle (EV) charging stations at City sites in partnership with our local investor-owned utility, who are installing 1,100 EV charging stations across the metro area: the largest system of its kind in the U.S.
- Conversion of traffic signal lights to LEDs
- Adoption of LEED Gold certification requirement for new municipal building construction & renovations
- Adoption of an Energy Empowerment ordinance in 2015 requiring KCMO municipal buildings > 10,000 sq. ft. and non-municipal buildings > 50,000 sq. ft. to benchmark & report energy/water use
- Expansion of Bus Rapid Transit lines in the City and construction of new City streetcar system that will begin operations in 2016

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## Knoxville, TN

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### Targets:

- Reduce greenhouse gas emissions 20% by 2020 (city-wide, 2005 baseline)
- Reduce greenhouse gas emissions 20% by 2020 (municipal-operations, 2005

baseline)

- By 2020, reduce the energy use intensity of 2 million+ square feet of municipal building space by 20% (2010 baseline).

**Significant Climate Actions:**

- Completed \$13.4M comprehensive energy saving performance contract to improve efficiency of 99 city facilities. Currently (based on 2015 inventory data), municipal greenhouse gas emissions are down 18% from our 2005 baseline.
- Working toward comprehensive retrofit of street lighting system to LED technology, resulting in estimated annual electricity savings of 13,653 MWh and annual CO2 savings of 8,280 metric tons.
- Through the Knoxville Extreme Energy Makeover Program, the City of Knoxville and its partners will provide energy efficiency upgrades to 1,200+ local homes that achieve 25% electricity savings and total annual CO2 savings of 2,973 metric tons.

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## Lakewood, CO

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**Targets:**

- Reduce community-wide greenhouse gas emissions by 20% below 2017 levels by 2025.
- Reduce community-wide greenhouse gas emissions by 20% below 2017 levels by 2050.
- Generate 45% of municipal, residential, and commercial energy from renewable sources by 2025.

**Significant Climate Actions:**

- As part of the 2015 Sustainability Plan, customizable greenhouse gas emissions calculators were used to model various strategies within the plan. For example, the calculators demonstrated that Lakewood could reduce emissions from the energy and water sector by 10,977 metric tons of CO2 emissions per year, and that residential curbside recycling and waste diversion have the potential to eliminate 37,627 metric tons each year. Emissions calculators ensure that our 2025 targets are achievable.
- Participated in the development of the Colorado Local Resiliency Project, led by the Colorado Climate Network and Colorado Municipal League. The report recommends actions for local governments to prepare for and address climate change impacts and can be found at [Lakewood.org/Green](http://Lakewood.org/Green).
- Joined the Western Adaptation Alliance, a regional network of local government

representatives in the Rocky Mountain West who work together to address region-specific climate issues and develop appropriate solutions.

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## Long Beach, CA

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### Targets:

- 15% GHG emissions reduction in municipal operations by 2020.
- Community-wide goals currently being developed during Climate Action and Adaptation Planning Process.

### Significant Actions:

- 25.4 Megawatts of PV Solar has been installed throughout the Long Beach since 2005.
- Long Beach Transit is converting its bus fleet to near-zero emission CNG and Battery Electric Buses by 2021.
- Long Beach is a member of the Los Angeles Regional Collaborative for Climate Action and Sustainability which works to advance climate solutions.
- Long Beach has adopted building code amendments requiring the inclusion of electric vehicle charging infrastructure in all new construction in the city.
- Long Beach's Lawn-To-Garden Turf Replacement Program has helped 5,000 residents transform just over three million square feet of thirsty turf to California friendly garden landscapes.
- The Port of Long Beach Clean Air Action Plan has led to innovative policies and programs reducing emissions from port activities including a 12% reduction in GHGs since 2006.
- The I Dig Long Beach tree planting program, funded by the Port of Long Beach, has planted over 3,000 trees in partnership with community organizations, and aims to plant 6,000 by 2020.
- The City Fleet Services Bureau has prioritized the purchase of alternative fuel vehicles, and purchased 54% alternative fuel vehicles in 2016.
- Long Beach joined the Compact of Mayors in 2015.
- The City has 140 miles of bike facilities as well as 1,700 bike racks and is committed to expanding bike infrastructure through the Bicycle Master Plan completed early 2017.
- In 2016, Long Beach began roll-out of a bike share program that will connect residents around the city. It currently has 60 hubs, 400 bikes, and over 10,000 members.

## **New Actions to Announce**

- Long Beach is currently in the second phase of a citywide project retrofitting 25,750 streetlights to LED, the emissions equivalent of removing 21,000 cars from the road.
- Long Beach is developing a Climate Action and Adaptation Plan that will help make it a sustainable and resilient city.

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## **Los Angeles, CA**

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### **Targets:**

- Los Angeles is committed to a 45% reduction in greenhouse gases by 2025, 60% by 2030, and 80% by 2050 (1990 baseline)

### **Significant Climate Actions:**

- Mayor Garcetti serves on the C40 steering committee; represents the largest city on President Obama's Climate Task Force; and co-created the Mayors' National Climate Action Agenda, a national movement to drive cities to take action and improve standards for carbon inventories and climate action
- Developing a comprehensive climate action and adaptation plan, including an annual standardized GHG inventory
- By 2017 we will expand the Better Buildings Challenge (BBC) to over 60 million square feet, and avoid 1250 GWh of energy use due to efficiency programs
- By 2017, will install at least 1 MW of solar on LA Convention Center rooftop
- LA has the greatest amount of solar power – in terms of installed capacity of MW – of any US City and by 2025, will increase cumulative total MW of local solar power to 900- 1,500 MW.
- LA is ahead of schedule to meet goal of 1,000 publicly available charging stations by 2017
- By 2025, Los Angeles will eliminate its use of coal-fired electricity

### **New Actions to Announce:**

- Mayor Eric Garcetti announced a commitment to lease 160 pure battery EV vehicles, a move that will give Los Angeles the largest city-owned pure EV fleet in America. The program commits city departments to the leasing of pure battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs) to replace aging city vehicles — including those with conventional internal combustion engines. The announcement comes on the eve of the U.S.-China Climate Leaders Summit.
- Los Angeles will release its Draft Climate Action Plan by December 2015.



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## Medford, MA

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### Targets:

- Carbon neutrality region wide, as part of Boston Metro Mayors, by 2050.
- Massachusetts Green Community, 20% municipal energy use reduction of 2009 levels by 2018

### Significant actions:

- Signed on to UN Compact of Mayors, November 2015
- Created city-wide GHG baseline (2015) inventory that is GPC compliant.
- First MA Climate Action Plan in 2001; Updated with Local Energy Action Plan in 2012
- First municipal scale wind turbine at a school in 2009
- Currently updating all city streetlights to LED
- 5 of Medford's 6 schools received Energy Star designation annually since 2011

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## Milwaukee, WI

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### Targets:

- 20% energy reduction in municipal buildings by 2020
- 25% renewable energy in municipal buildings by 2025

### Significant Climate Actions:

- Milwaukee supports the Compact of Mayors
- Milwaukee's *Property Assessed Clean Energy* (PACE) financing program has financed over \$13 million of energy efficiency projects and has been named a national Implementation Model by the US Department of Energy.
- The *Milwaukee Shines* solar program offers loans and a "group-buy" to make solar energy affordable for homeowners. The program has installed over ½ MW of solar power on rooftops throughout the City.
- The *Milwaukee Energy Efficiency (Me<sup>2</sup>)* program offers affordable loans to homeowners for energy efficiency upgrades. The program has retrofitted over 1,300 homes.
- The Port of Milwaukee installed a 100kw wind turbine
- Milwaukee's *Better Building Challenge* program provides commercial building owners with comprehensive support services to cut energy use 20%. To date, 27 commercial buildings have committed goals in the program.
- Milwaukee has a robust green infrastructure program as part of its Water-Centric City initiative to help the city adapt to climate change threats.

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## Montpelier, VT

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### **Targets:**

- Net Zero by 2030

### **Significant Climate Actions:**

- Installed renewably powered district heating system in the downtown using sustainably harvested biomass.
- Installed 1 megawatt of solar in 2016 which offsets approx. 70% of municipal electricity use.
- Recognized as a Climate Action Champion and one of fifty cities nationwide to participate in the Georgetown University Energy Prize competition.
- Lowered municipal greenhouse gas emissions by 56% over the past five years, and total municipal energy use was 25% renewable in FY16.
- Retrofit streetlights with LEDs.
- More than 15% of homes have been weatherized to date, the highest percentage of any city in Vermont.

### **New Actions to Announce:**

- Montpelier recently launched a Net Zero Revolving Loan Fund to reinvest energy savings into new municipal projects.
- Feasibility study underway for waste to energy cogeneration project at the wastewater treatment facility.
- All municipally owned buildings will be audited by the end of 2017.

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## New Orleans, LA

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### **Targets:**

- New Orleans has taken inventory of our greenhouse gas pollution and is finalizing a 2030 community target reduction for our climate action strategy to be launched in 2017

### **Significant Climate Actions:**

- Developed and released the world's first comprehensive resilience strategy for a City in August 2015 in partnership with 100 Resilient Cities—pioneered by the Rockefeller Foundation
- Developing a comprehensive climate action strategy, including annual standardized GHG inventory.

- Set a 2% annual energy savings target with Entergy New Orleans for community-wide energy savings
- Joined the City Energy Project to benchmark and reduce energy use in large commercial properties
- New Orleans in in the top ten solar cities nationwide with more than 3000 rooftop installations totaling more than 36 MW, many of which are on low and moderate income homes through an extensive solar leasing program

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## New York City, NY

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### **Targets:**

- 80% by 2050 on 2005 baseline, with a 40% reduction by 2030 on 1990 baseline.
- From buildings, the City is targeting a 30% reduction by 2025; all City government buildings to be retrofitted for energy efficiency by 2025.

### **Significant Climate Actions:**

- The City compiles an annual GHG inventory. As of 2017, annual greenhouse gas emissions are down 14%.
- Released NYC's Roadmap to 80 x 50: [www.nyc.gov/80x50](http://www.nyc.gov/80x50)
- Compact of Mayors, member of Carbon Neutral Cities Alliance, ICLEI, C40
- Issued RFI to procure 100% of City electricity from renewable sources.
- B20 diesel required for City heavy equipment (B5 in the winter).
- The city has over 100 megawatts of renewable solar energy installed.
- Approaching 1,000 electric vehicles in use by City agencies.
- Over 1 million New Yorkers are served by organics collection.
- Over 500 brownfields have been remediated so far, hitting the OneNYC goal a year-and-a-half ahead of schedule.
- Launched the first 100 Zero Waste Schools, reaching nearly 500,000 public school students.
- Re-Fashion and e-cycle programs each diverted 10 million pounds of material
- The city secured a ground-breaking commitment to redraw our flood maps to better account for current and future flood risk, saving New Yorkers millions of dollars and better preparing our coastal communities for the future.
- And major project milestones continue to be met across the City's over \$20 billion resiliency program, including completion of the Sea Gate t-groins and groundbreakings for resiliency investments as part of \$3 billion NYCHA program.

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## Oakland, CA

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### **Targets:**

- 36% by 2020, 83% by 2050 (2005 baseline).

### **Significant Climate Actions:**

- Retrofitted 100% of trucks and installed shore power at 11 berths at the Port of Oakland, part of a documented success in eliminating more than 165 tons of particulate matter from environmentally sensitive areas since 2005.
- Beginning in 2015, the City's new Zero Waste franchise agreements and expanded services are resulting in emissions reductions of more than 450,000 metric tonnes per year.
- Currently constructing a new Bus Rapid Transit line through the most economically disadvantaged areas of the City, reducing GHG emissions while improving transit and air quality outcomes for the most vulnerable populations in the City.
- Adopted extensive mandatory plug-in electric vehicle infrastructure requirements for all new commercial and residential development, including multi-family homes.

### **New Actions to Announce:**

- Adopted extensive mandatory plug-in electric vehicle infrastructure requirements for all new commercial and residential development, including multi-family homes.
- City of Oakland and its partners have invested more than \$120 million in implementing projects and plans to reduce greenhouse gas emissions and enhance equity since 2012.

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## Orlando, FL

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### **Targets:**

- Reduce GHG emissions 90% by 2040 (city-wide)
- Achieve 100% renewable energy by 2030 (municipal operations)
- Achieve 50% renewable energy by 2040 (city-wide)
- Achieve 100% renewable energy by 2050 (city-wide)
- Achieve 100% fleet vehicles using alternative fuels and electric by 2030 (municipal operations)

### **Significant Climate Actions:**

- Installed the first grid-tied floating solar array (35KW “Floatovoltaics”)
- Enabled a new ‘Solar Aggregation Program’ by our municipal utility to using bulk-purchasing mechanisms to lower the total cost/watt installed rate for any OUC customer
- Passed the Building Benchmarking, Energy Audits/Rx, and Transparency Policy in Dec 2016, to begin in public sector 2017 and private sector 2018.
- Working towards a 30% reduction in energy consumption of Orlando government buildings and street lights through \$17.5M green bond and revolving loan fund
- Scaling community financing to retrofit residential buildings through PACE and SELF
- Working towards running heavy trucks on CNG-hybrids
- Adoption of LEED certification requirement for new municipal building construction & renovations
- Rapid expansion of EV infrastructure, including fleet vehicles and transit buses
- Expanding community solar on public buildings and brownfield sites

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## **Palo Alto, CA**

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### **Targets:**

- 2030: Reduce GHGs 80% below 1990 GHG baseline by 2030
- 2021: Zero waste by 2021

### **Significant Climate Actions:**

- Palo Alto adopted one of the first municipal climate action plans in the U.S. in 2007.
- In 2016 Adopted a Sustainability and Climate Action Plan with a goal of achieving an 80% reduction in Greenhouse Gases below 1990 levels by 2030 - 20 years ahead of the State of California’s 80% by 2050 target.
- By 2015, Palo Alto reduced greenhouse gas emissions an estimated 37% since 1990.
- Reduced Regional Water Quality Control Plant GHG emissions by more than 60% since 1990.
- In 2013 Palo Alto became the first city in America to have a 100 percent carbon-neutral electricity supply.
- City of Palo Alto Utilities (CPAU) is one of the first carbon neutral utilities for both electricity and natural gas in the US, having added a City Council-approved Carbon Neutral Natural Gas Plan in 2016.

- Increased the City’s Renewable Portfolio Standard from 26.0% in 2015 to 40.2% in 2016.
- Won a \$1 million federal “mobility sandbox” grant to work with 30 other regional agencies and employers on pilot programs using commuter trip reduction software, a multimodal trip planning app and workplace parking rebates to reduce single-occupant vehicle driving from 75 percent to 50 percent.
- Adopted aggressive green building ordinance and energy reach code ordinance (both taking effect January 1, 2017).
- Achieved waste diversion rate of 80 percent, up from a 63 percent diversion rate in 2005.
- Met Bay Area Municipal Regional Permit 60% trash reduction guideline, but also met the 70% trash reduction requirement one year ahead of schedule by reducing trash 84% by July 2016.
- In 2016, Palo Alto’s Cool Block program – a pilot program of the Cool City Challenge –brought together 43 households within 12 neighborhood blocks who worked together on 1208 actions that eliminated 611,066 pounds of CO<sub>2</sub> emissions-- an average 7.1 tons of CO<sub>2</sub> per household
- Received Ready, Set, Charge! Bay Area Electric Vehicle Readiness Awards in 2014.
- Achieved EV penetration for 4.5% of vehicles owned, and 15% of new vehicle purchases.
- Adding 40 additional EV chargers at City facilities in 2016-2017.
- Award-winning green purchasing program has “greened” several performance criteria for structural and landscaping pest control, custodial and office supplies, and computers. The City has reduced the use of single-use plastics (bottled water, plastic bags, plastic packaging), reduced the toxicity and amount of pesticides used, and virtually eliminated products that contain mercury and dioxins.
- Established a “default to green” policy for City procurement in 2015
- Established an “EV first” policy for City fleet in 2015
- Reduced potable water use by approximately 25% from 2015 to 2016.
- Achieved 44% bicycle mode share for Palo Alto high schools
- As part of the San Jose Metropolitan Area, received the top ranking for Mid-Sized Cities for the 2016 Energy Star Top Cities Rankings for the most Energy Star Buildings in 2015.
- Received the 2016 California Energy Efficiency Industry Council Energy Champion Award, which recognizes key businesses and policy leaders in California who have shown excellence in advancing energy efficiency
- Awarded gold level status as a Bicycle Friendly Community in 2016 by the League of American Bicyclists.

- Moody's upgraded the City's Water Enterprise bond rating from Aa2 to Aa1 in 2016, a rare event for water operations.
- Solar Electric Power Association ranked CPAU Solar Programs in the Top Ten list of utilities that integrated the most solar into the grid in 2016, and ranked CPAU number 3 on the Watts-per-Customer list for 2015.
- Arbor Day Foundation named CPAU a Tree Line USA Utility in 2015 and 2016, in recognition of quality tree care, annual worker training, tree planting, and public education.
- Institute for Local Government awarded the City a Silver-level Beacon Award in 2014 for City facilities' 53 percent reduction in greenhouse gas emissions, 35 percent reduction in natural gas and 9 percent reduction in energy usage over a 1990 baseline.
- Developed a Municipal Sustainability Finance Toolkit with USDN.

**New Actions to Announce:**

- The City is currently developing its 2017-2020 Sustainability Implementation Plan which anticipates a trajectory of 50% reduction by 2020.
- The City is adding 15 more neighborhood blocks to the Cool Block Beta Project.

## Park City, UT

**Targets:**

- Net-zero carbon and running on 100% renewable electricity by 2022 for municipal operations, and 2032 community-wide

**Significant Climate Actions:**

- Electrification of bus rapid transit line
- Implementing new master plans in transit, parking and transportation that include: e-bike share, car share, EV charging infrastructure, electrification of entire bus fleet, recreation path improvements
- Signed Joint Clean Energy Cooperative Statement with Rocky Mountain Power to bring new, renewable electricity sources online in order achieve our renewable goals
- Energy Roadshow amongst City staff to educate and engage all municipal employees on City's energy usage and efficiency measures
- Installation of 329.5 kW of solar photovoltaics on seven municipal buildings
- LED Switch has been completed for all Park City Municipal buildings
- A total of 937 street lights were upgraded with LEDs, reducing energy consumption by 66%

- Park City established a revolving loan fund to incentivize projects that focus on energy efficiency
- The new Public Utilities building, Community Center, affordable housing, and Main Street plaza are all designed to be net-zero energy. Net-zero building standard for City buildings and facilities (proposed: City Council vote soon)
- Quantification of open space purchases for carbon sink values

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## Philadelphia, PA

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### **Targets:**

- Reduce municipal GHG emissions by 20% by 2015 (1990 baseline)
- Reduce citywide GHG emissions by 20% by 2015 (1990 baseline)
- Reduce citywide GHG emissions by 80% by 2050 (2003 baseline)

### **Significant Climate Actions:**

- Despite major increases in extreme weather events, Philadelphia has reduced municipal emissions by 15% to-date, primarily through large-scale energy efficiency retrofit projects, converting 100% of traffic signals to LEDs (85,000), and fuel efficiency gains.
- Philadelphia will be setting updated short-term and long-term GHG reduction goals in 2017 as part of an energy master planning process.
- Passed benchmarking and disclosure legislation, requiring commercial buildings 50,000+ square feet to annually report energy use through EPA's Energy Star tool; the program is in its third year of implementation, with a 90% compliance rate.
- Achieved a 12% decrease in vehicle miles traveled between 2005-2013, enhancing mode share through transit improvements, enhanced bike infrastructure, and the successful launch of Indego bike share.
- SEPTA, the transit authority, has built one of the nation's largest hybrid fleets with 460 Hybrid-Electric Buses replacing Diesel Buses, achieving a 14% improvement in fuel consumption/56% decrease in nitrogen oxide/96% decrease in particulate matter.
- Worked with climate scientists to model climate projections for the Philadelphia region, providing robust, publicly available data.
- The two major climate risks Philadelphia faces are increased flooding and heat. To mitigate against these risks, we have:
- Installed over 800 new greened acres actively managing stormwater through the City's Green City, Clean Waters program.



- Added 157 new acres of open space, primarily in underserved parts of the city.
- Planted over 121,000 new trees in parts of the city with low tree canopy.

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## Phoenix, AZ

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### **Targets:**

- Reduce GHG emissions by 80% by 2050 (2005 baseline).
- Reduce GHG emissions for city operations by 15% by 2015 (2009 baseline).
- Reduce GHG emissions for city-owned buildings by 20% by 2020 (2009 baseline).
- Supply 15% of its energy use in city-owned building operations from renewable energy by 2025.

### **Significant Climate Actions:**

- Mayor Greg Stanton is a member of the C40 Compact of Mayors and the Mayors' National Climate Change Action Agenda, and serves as the chair U.S. Conference of Mayors Environment Committee.
- Created the largest municipal fleet of alternative fuel vehicles in the nation, saving 60 million gallons of petroleum throughout the Phoenix region.
- Supported the construction of 25 MW of solar energy production on 24 different sites, including city parking garage rooftops, water treatment facilities and landfills.
- Half of the city's public works buildings use solar power.
- Conducting the region's first GHG inventory.
- Setting significant 2050 sustainability goals and interim targets for land use, transportation, air quality, water stewardship, waste and local food systems.
- Committing more than \$6 million annually toward projects that help protect against water shortages through a new Colorado River Resiliency Fund.
- Converting the city's 90,000 street lights to LED within three years.

### **New Actions to Announce:**

- Tripling the size of the City of Phoenix's light rail system by 2050.

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## Portland, OR

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### **Targets:**

- 80% reduction in greenhouse gas emissions from 1990 levels by 2050

- 40% reduction in greenhouse gas emissions from 1990 levels by 2030
- As of 2014, Portland GHG emissions are 21% below 1990. On a per capita basis, emissions have fallen more than 40% since 1990.

**Significant Climate Actions:**

- Electricity for City operations is 100% renewable power.
- Electric vehicles comprise more than 20% of the City’s sedan fleet.
- City Council has adopted zoning code changes to prohibit the construction of large-scale new fossil fuel infrastructure.
- In 2015, Portland opened the Tilikum Crossing, the largest car-free bridge in North America, to carry the region’s newest light rail line and also accommodate the Portland streetcar, buses, pedestrians and bicyclists.
- Houses that are listed for sale in Portland must include a Home Energy Score in the listing.

## Providence, RI

**Targets:**

- Achieve carbon neutrality by 2050.
- Achieve a minimum of 30% energy use reduction by 2030 in all city-owned property.
- Adopt a zero waste plan by 2033

**Significant Climate Actions:**

- The City has reduced #2 fuel oil consumption by over 88%. As of December 2016, heating oil has been eliminated from all municipal school buildings.
- Deep energy efficiency upgrades have been completed in five City buildings, saving 2.5 million kBtu annually and reducing the buildings’ combined energy use by 44%.
- The city transitioned 16,800 streetlights from high-pressure sodium lamps to smart-control LEDs, reducing electricity needs by 12,282,445 kWh annually and City scope 2 emissions by 8,635 tons.
- The City is in process of providing Virtual Net Metering (VNM) for municipal operations from a remote solar installation, which will reduce City scope 2 emissions by 23,894 tons annually.
- Providence’s new Commercial Property Assessed Clean Energy (C-PACE) program allows eligible property owners to finance up to 100% of energy efficiency, renewable energy, water conservation, environmental health and safety eligible improvements.

- Providence has partnered with the community to launch its Equity in Sustainability initiative- a push to integrate the perspectives of people of color into the City's sustainability and resiliency planning processes.
- The City has benchmarked and disclosed energy data for all City-owned properties.
- Providence completed a renewable energy feasibility study of City property.
- 25 municipal buildings have qualified for Energy Star certification.
- Over 300 new trees have been planted throughout the City in 2017.

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## Reno, NV

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### **Targets:**

- 80% reduction in GHG emissions below 2008 levels by 2050.

### **Significant Climate Actions:**

- Launching Better Buildings Challenge with challenge goal to reduce municipal and commercial building energy 20% by 2025 for participating building owners, operators.
- Participating in the City Energy Project, goal to reduce large commercial, industrial and municipal buildings energy use.

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## Sacramento, CA

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### **Targets:**

- 15% reduction in community-wide GHG emissions below 2005 levels and a 22% reduction in municipal GHG emissions by 2020.
- 49% reduction in GHG emissions below 2005 by 2035.
- 83% reduction in GHG emissions below 2005 levels by 2050.

### **Significant Climate Actions:**

- From 2005 to 2013, the City achieved a 24 percent reduction in municipal GHG emissions.
- City fleet is at 49% alternative fuels with more than 30 battery electric vehicles and 100% renewable fuel for diesel, liquefied natural gas, and compressed natural gas vehicles.
- Created a property assessed clean energy financing program in 2011, with improvements completed on 2% of properties in city limits to date.

- Installed 4.9 megawatts of solar PV on City facilities, representing approximately 15% of all 32 megawatts installed citywide.
- In partnership with the Sacramento Kings, developed the first certified LEED Platinum indoor arena, the Golden 1 Center.

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## Salt Lake City, UT

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### Targets:

- 2032 target: 100% of Community electricity from renewable sources
  - 2020 target: 50% of Municipal electricity comes from renewable source
- 2040 target: 80% reduction in Community greenhouse gas footprint (2009 baseline)
  - 2030 target: 50% reduction in Community greenhouse gas footprint
  - Read more at: <http://www.slccgreen.com/climatepositive>

### Significant Climate Actions:

- Mayor Biskupski and the City Council adopted a Joint Resolution in 2016 committing to 100% renewable energy for the community electricity supply by 2032 and an 80% reduction in community greenhouse gas emissions by 2040. The resolution also committed to 50% renewable energy for internal electricity use by 2020.
- Finalized a Clean Energy Cooperation Statement between Salt Lake City and Rocky Mountain Power. This document highlights how the City and electric utility will collaborate on a number of energy and emissions reduction goals, including joint development of an Implementation Plan to help the City achieve 100% renewable energy for its community electricity supply. The City also signed a five year Franchise Agreement with Rocky Mountain Power in 2016.
- Distributed solar in Salt Lake City has grown by a factor of 25 between 2010 and 2015.
- Enrolled 90 separate municipal electric meters in the Rocky Mountain Power Subscriber Solar program. These meters collectively subscribed to 3.0 megawatts of solar energy.
- Procured installation services for solar arrays that will be installed on seven separate municipal buildings in 2017, including five fire stations, a police facility and the Regional Athletic Complex restroom. Also participated in the Design Review Committee for two new Net Zero fire stations that will be constructed in 2016-17.

- Collaborated with the University of Utah on a discounted electric vehicle program, resulting in more than 130 all-electric and plug-in hybrids being sold or leased to community members in three months.
- Procured 28 new Level 2 electric vehicle charging ports that will be installed at 11 separate public locations in early 2017.
- Continued to reduce emissions and save operational costs through the procurement of cleaner City fleet vehicles and enhanced vehicle management. The City now operates over 115 hybrids, 24 CNG and a dozen all-electric vehicles in its government fleet.

**New Actions to Announce:**

- Proposing an [ordinance on energy benchmarking](#) and transparency for Salt Lake City’s largest commercial buildings. We are still working with stakeholders on this, but we hope to see it pass this spring.

## San Francisco, CA

**Targets:**

- Greenhouse gas emission reduction targets: 25% reduction by 2017; 40% by 2025; 80% by 2050 (1990 baselines)
- San Francisco’s “0-50-100-Roots” Climate Action Strategy is a coordinated City effort to send zero waste to landfill without incineration by 2020, maintain 50% all trips by sustainable modes by 2018, achieve 100% renewable energy by 2030, and sequester carbon through urban forestry and compost application (Roots).

**Significant Climate Actions:**

- Compact of Mayors and Under2MOU signatory
- Member of C40, Carbon Neutral Cities Alliance, US Mayors National Climate Action Agenda
- 2012 greenhouse gas emissions were at an unprecedented 23 percent below 1990 levels despite growth in City’s economy and population
- **Zero Waste**
  - 99% of all properties in San Francisco are compliant with having mandatory composting and recycling service.
  - Less than 20% of material discards generated in San Francisco are now landfilled in our progress toward zero waste
- **Transportation & Energy**
  - The City’s Transit-First policy and programs have been successful in getting San Franciscans to take 50% of all trips by sustainable modes ahead of the 2018 goal.

- San Francisco's cable car lines, the nation's largest fleet of electric trolley buses, and historic Muni streetcars are all supported by clean, GHG-free electricity from the City's Hetch-Hetchy hydro power system.
- In 2015, the City's non-electric public transit busses, fire trucks and all other diesel powered fleet vehicles transitioned to 100% renewable diesel, reducing the diesel fleet's GHG footprint by 56% and improving local air quality.
- San Francisco ranks as one of the top US cities for electric vehicle charging station availability on a per capita basis, with over 500 public charging stations citywide.
- In 2016, San Francisco was the only city in the country awarded a US Department of Energy (USDOE) grant to increase market transformation of fuel cell electric vehicles.
- **Energy & Green Building**
  - The City is continuing its path to achieving the goal of 100% renewable electricity supply by 2030 with the launch in May 2016 of CleanPowerSF, San Francisco's new Community Choice Aggregation program. CleanPowerSF will exceed the state's goal of 33% renewable by providing a default "Green" product that is 35% renewable and a premium "Super Green" product that is 100% renewable.
  - In 2016, San Francisco's Energy Watch and BayREN energy efficiency programs provided professional auditing services, upgrades, and incentives to almost 400 commercial and multi-family (1,660 units) property owners. In total, the programs saved almost two megawatts of energy and paid nearly \$2.5M in incentives.
  - In 2016, San Francisco became the first major city in the United States to require solar photovoltaic and/or living roof installations on new residential and commercial developments.
  - 6.9 million square feet of San Francisco's municipal-owned and operated properties are LEED certified, an increase from 4 million square feet in 2014. Citywide, 103 million square feet are LEED certified and two-thirds are LEED Gold or Platinum.
- **Urban Forestry [Roots]**
  - The City has launched the Citywide Street Tree Census, following the 2015 adoption of the Urban Forest Plan, and is on track to add over 50,000 street trees in the next 20 years.
  - San Francisco to date has awarded over \$13 million in environmental grants to non-profits and community based organizations targeting low income communities in order to increase access to solar and energy efficiency projects, promote green jobs, reduce air pollution, and build

community gardens.

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## San Jose, CA

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### **Targets:**

By the year 2022, the City of San Jose in tandem with its residents and businesses will:

- Create 25,000 Clean Tech Jobs as the World Center of Clean Innovation
- Reduce per capita energy use by 50%
- Receive 100% of our electrical power from clean, renewable sources
- Build or retrofit 50 million sq. ft. of green buildings
- Divert 100% of waste from landfill and convert waste to energy
- Recycle or beneficially reuse 100% of our wastewater
- Adopt General Plan with measurable standards for sustainable development
- Ensure that 100% of public fleet vehicles run on alternative fuels
- Plant 100,00 new tree and replace 100% of our streetlights with smart, zero emission lighting
- Create 100 miles of trails connecting with 400 miles of on-street bikeways

### **Significant Actions:**

- As of May 2017, San Jose became the largest US City to adopt Community Choice Energy as a single jurisdiction.
- As of 2014, San Jose has over 12,000 clean tech jobs with over \$47.2 billion in venture capital invested since 2007.
- Created Prospect Silicon Valley as the first nonprofit, Silicon Valley-based catalyst to support emerging technology companies through demonstration, testing, and commercialization.
- Silicon Valley Energy Watch has delivered over 850 energy retrofit projects, reducing energy use by over 11.5 million kWh.
- Launched Property Assessed Clean Energy which has completed over 1,300 residential projects for water and energy efficiency resulting in almost 176,000,000 kWh and over 102,000,000 gallons of water saved - removing over 113,000 tons of GHG emissions over the project's life.
- The City has installed 30 solar energy systems with a total generation capacity of 4.8 megawatts (MW) at City sites.
- San Jose maintains a 73% overall solid waste diversion rate and 90% diversion at City facilities.
- The City, partnered with Zero Waste Energy Development Company, launched one of the world's largest dry fermentation anaerobic digestion facilities,

converting commercial organic waste into 1.6 MW of renewable energy and 32,000 tons of compost.

- The City's contracted haulers converted 76 residential waste collection trucks from diesel fuel to compressed natural gas, generating cleaner emissions and significantly reducing GHG emissions.
- A record 785 customers used an average of 14.1 million gallons of recycled water per day.
- Residents exceeded expectations, conserve 29% of water use during the height of California's historic drought.
- The City maintains 41% of its vehicle fleet to run on alternative fuel, with a total of 991 alternative fuel vehicles.
- Through a partnership with Our City Forest, we continue to plant thousands of trees every year with a total of 12,289 trees planted since 2007, sequestering approximately 479.3 metric tons of CO<sub>2</sub>.
- San Jose converted nearly 2,130 streetlights to smart LED streetlights in 2014. To date, approximately 20,000 LED streetlights have been installed, saving the City more than 3 million kWh annually.
- The City completed 19 miles of on street bikeways for a total of 240 miles of on street bikeways and reached 56.8 miles of off-street trails.
- San Jose bicyclists took 19,562 trips, offsetting 14,278 pounds of carbon dioxide through the Bay Area Bike Share Program.

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## Santa Monica, CA

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### Targets

- 20% GHG emissions reduction below 1990 baseline levels by 2020
- 30% GHG emissions reduction below 1990 baseline levels by 2030
- Carbon Neutral by 2050
- Water-Self Sufficient by 2020
- Zero Waste by 2030

### Significant Actions

- The City's Big Blue Bus fleet converted to 100% renewable natural gas from landfill- captured methane.
- The City produces 70% of its water locally, avoided energy-intensive imported water.
- The City's newest Pico Branch Library features a 12,000 gallon cistern that treats captured rainwater for flushing the toilets.



- Santa Monica’s Landscape Rebate Program has helped residents and businesses remove 283,989 square feet of thirsty turf since 2014.
- The City provides medicine drop-off and hazardous waste curbside pickup service.
- Over 15 years, Santa Monicans have installed over 5 MW of solar citywide. In 2015, the City’s Solar Santa Monica program was recognized by the Conference of Mayor’s Climate Protection Awards.
- The City is partnering with the Center for Sustainable Energy to train local solar contractors to be able to develop virtual net energy metering projects for multifamily properties.
- In 2011, Santa Monica adopted its Bike Action Plan to increase biking in the City. Since adoption the bicycle network has increased from 37 miles to 82 miles and peak period cycling has increased by 79%.
- In 2013, Santa Monica completed its award-winning Tongva Park, adding 7 acres of botanical diversity, open space and recreation. It is one of six finalists in the Urban Land Institute Global Award of Excellence for Urban Space.
- In 2015, City Council adopts a resolution to join a study to assess the feasibility of a regional Community Choice Aggregation entity.
- Santa Monica is leading a sea level rise and shoreline change study that will inform a vulnerability and risk assessment for the LA coastal region.

**New Actions to Announce**

- The City is currently planning the design and construction of a centralized 60,000 square foot City Services Building, with the intent to achieve Living Building Challenge certification.
- Adopted a zero-net energy ordinance for residential new construction
- In 2017, Santa Monica retrofitted 1,300 streetlights to LED.
- by the end of 2017, Santa Monica will have over 100 public EV chargers in just 8.3 sq. mi
- Santa Monica is currently initiating the development of its 2030/2050 Climate Action and Adaptation Plan which will be completed in late 2017.

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## Sarasota, FL

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**Targets:**

- **Municipal**
  - 35% greenhouse gas reduction by 2035 from 2003 baseline (comprehensive plan goal)

- 50% of municipal energy demand is provided by renewable energy sources by 2024 and 100% by 2035
- **Community-Wide**
  - 35% greenhouse gas reduction by 2035 from 2003 baseline (comprehensive plan goal)
  - 100% community-wide energy provided from renewable sources by 2045

### **Significant Actions**

- Energy Performance Contract to improve efficiency in city buildings and install automated water meter readers
- Have Renewable Energy Agreement with electric provider Florida Power Light. Through this agreement have installed 12 EV charging stations, provide free energy audits to residents (with lighting and weatherization items provided)
- ⅔ the way through a holistic Climate Change Vulnerability Assessment and Adaptation Plan for city-owned infrastructure
- Launched a Community Canopy Program which provides free trees to residents mailed directly to their home. Web based dashboard with Arbor Day Foundation that shows energy savings based on where resident plants trees.
- LED streetlight retrofits
- Achieved 23% reduction in GHG emissions from 2003 baseline to 2015, mainly due to methane recovery and natural gas substitutes within utility's supply mix.

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## **Seattle, WA**

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### **Targets:**

- Carbon neutral by 2050
- 58% reduction in GHG emissions by 2030 from 2008 baseline

### **Significant Climate Actions:**

- Adopted a comprehensive Climate Action Plan which provides a roadmap to carbon neutrality through strategies that enhance community, economic, and equity goals.
- Released the 2014 Community GHG Inventory, which showed a 17% decline in per person emissions from the 2008 baseline due to more fuel efficient vehicles driving less and lower building energy use.
- Seattle City Light, the city's municipally-owned electric utility, has maintained a carbon neutral electricity supply since 2005, and remains committed to meeting all future load growth with conservation and renewables.
- Seattle is one of fourteen U.S. cities that have enacted Energy Benchmarking

policies requiring building owners to track energy performance and annually report to the City, with an unprecedented 99% of required buildings reporting.

- Seattle adopted a Building Tune-Ups policy which phases in a periodic tune-up requirement for nonresidential buildings 50,000 square feet or larger. Tune-ups aim to optimize energy and water performance by identifying no- or low-cost actions related to building operations and maintenance, focusing on actions that typically pay back within 3 years and generate 10-15% in energy savings, on average.
- Strengthened Seattle's energy code beyond national standard, helping to ensure that buildings constructed today can be carbon neutral in 2050 by prioritizing efficiency gains that are most likely to remain intact for the life of the building through higher efficiency building envelope requirements and by encouraging non-fossil-fuel based heating systems.
- Established a goal that 30 percent of light duty vehicles in Seattle will be electric by 2030. The Drive Clean Seattle initiative is working to facilitate the adoption of electric vehicles by providing publicly-accessible charging infrastructure, partnering with private companies to facilitate investment in charging infrastructure and electric shared transportation, electrifying the City's municipal fleet.
- The City is partnering with transit agencies and private mobility service providers to develop a network of shared mobility hubs, which provide an integrated suite of transportation services, supporting amenities, and urban design enhancements that reduce the need for single occupant vehicle trips by increasing first mile/last mile access to high-frequency transit stations.
- Continued investments in transit have resulted in a 32% increase in transit ridership since 2010 and a drive alone rate to downtown Seattle of only 30%.
- The City adopted a Resource Conservation Management Plan in 2013 to guide action to meet the City's goal of reducing energy use in existing City buildings by 20% by 2020 from a 2008 baseline.
- Over 2,700 residents and businesses have installed solar panels and over 1,300 residents have joined community solar programs.
- Banned compostable and recyclable materials (including food scraps, compostable paper, yard waste, and recyclables) from garbage for residential and commercial customers. Also, banned additional construction, remodeling and demolition waste materials.
- Seattle Trees for Neighborhoods program helps residents plant 1,000 trees in their yards and along the street by providing help selecting the right tree and planting location, free trees, a watering bag and mulch for each tree, and training on proper planning and care.
- Member of the MNCAA, Carbon Neutral Cities Alliance, Compact of Mayors

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## Somerville, MA

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### Targets:

- Carbon neutrality for community by 2050.
- As a Massachusetts Green Community, 20% municipal energy use reduction of 2011 levels by 2017
- 50% of all new trips will be by transit, walking or biking by 2030.

### Significant actions:

- Second city in Massachusetts to sign on to Compact of Mayors, September 2015
- New GHG baseline (2014) inventory that is GPC compliant to be released in November 2015.
- Replacing HPS outdoor lighting citywide (4000+fixtures)
- Electric vehicle charging infrastructure installed in 2015 as well as city's first 4 all-electric fleet vehicles
- Launched widely recognized Somerville GreenTech program to pilot early-stage green technologies (<http://www.somervillema.gov/greentech/>)
- Launched long-term climate change planning initiative, SustainaVille. (<http://www.somervillema.gov/sustainaville/>)

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## Sonoma, CA

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### Targets:

- Reduce GHG emissions by 25% (compared to 1990 levels) by 2020
- Reduce GHG emissions by 40% (compared to 1990) by 2030, and by 80% by 2050

### Significant Actions:

- In February of 2008, the City of Sonoma adopted a municipal greenhouse gas reduction plan. As one result of this plan, all City facilities have been upgraded with respect to energy efficiency, including lighting and A/C controls.
- The City offers a Business Improvement Matching Funds Loan Program for improvements to commercial buildings, including lighting retrofits, insulation and weatherization, energy management systems, HVAC system upgrades, water heating systems, irrigation efficiency systems, rainwater harvesting systems, low-flow toilets, and similar types of improvements to the building or property that have been identified through a qualified energy and/or water efficiency survey.

- Over the course of 2008-2010 obtained CREBs funding (Clean and Renewable Energy Bonds) to implement a variety of energy saving measures for City facilities, including the photovoltaic arrays at the Police Station and the Corporation Yard.
- In July 2013, Sonoma joined the Sonoma Clean Power consortium, a Community Choice Aggregation program that provides electrical service generated by renewable resources.
- Beginning January 1, 2014, the 2013 California Green Building Standards Code (CALGreen) became effective for new buildings and certain addition or alteration projects throughout California. The City of Sonoma adopted and amended CALGreen as part of the City's Municipal Code to require CALGreen+Tier 1 level of compliance for all new buildings.
- In 2015, the city replaced 1,100 streetlights with energy efficient LED fixtures. The project will reduce the CO2 greenhouse gas output by 180,000 pounds a year and save the city about \$70,000 annually in energy costs.
- In October of 2016, the City Council agreed to switch the municipal electrical supply to the "Evergreen" program offered by Sonoma Clean Power, the first city in the County to do so. The Evergreen program is 100% local, renewable power.
- As a member agency of the Regional Climate Protection Authority (RCPA), the City of Sonoma participated in the development of Climate Action 2020. Chapter 5 of Climate Action 2020 includes a greenhouse gas emissions profile for the City of Sonoma and the individual greenhouse gas measures that the City of Sonoma selected for inclusion in the plan. At its meeting of November 21, 2016, the City Council adopted the Climate Action 2020 measures for the City of Sonoma, and the emissions reduction targets contained in Climate Action 2020 plan.
- In May of 2017, as authorized by the City Council, a Climate Action Technician intern was hired to assist the City in implementing its adopted GHG reduction programs.

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## Tacoma, WA

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### **Targets:**

- 40% below 1990 level by 2020, 80% below by 2050
  - As of 2012, 9% reduction

### **Significant Actions:**

- Adopted Environmental Action Plan in 2016, prioritizing 68 actions with 5 year targets.

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## Washington, DC

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### **Targets:**

- Committed to 50% by 2032, 80% by 2050 below 2006 levels and we are a member of the Carbon Neutral Cities Alliance.
- Sustainable DC Plan adopted in 2013 with targets to cut energy use 50% and expand the use of renewable energy to 50% by 2032.
- Sustainable DC Plan also sets a target for new buildings to meet net –zero energy use standards by 2032.

### **Significant Climate Actions:**

- Reduced GHG emissions 23% below 2006 levels as of the latest GHG inventory in 2013. Emissions are reported annually to CDP.
- In 2016, adopted Climate Ready DC, the District's citywide climate adaptation plan.
- The District, in 2016, released the draft Clean Energy DC plan, which proposes 55 energy actions and details how those actions will reduce GHG emissions by over 50% by 2032.
- In 2015, Mayor Bowser signed a power purchase agreement for the output from a 46MW wind farm and 11.4 MW of onsite solar that will supply close to 40% of the District Government's electricity needs, avoiding 100,000 tons of carbon emissions every year. In recognition, the U.S. EPA awarded the District its Green Power Leadership Award in 2015, and the District won a clean energy leadership award from the C40 Cities alliance.
- Through its RiverSmart programs, the District provides financial incentives to property owners to install green infrastructure such as rain barrels, green roofs, rain gardens, permeable pavement, shade trees, and more. These practices will help the District reduce stormwater runoff in the face of increasingly severe rain events.
- In 2014, adopted new green construction and energy conservation codes for buildings
- In October 2015, DC Water, which operates the world's largest advanced wastewater treatment plant and is the District's single largest energy user, unveiled its \$470 million waste-to-energy project that is producing a net 10 megawatts (MW) of electricity from the wastewater treatment process, providing clean, renewable energy to power about one-third of the wastewater treatment plants energy needs.
- Thanks to the District's green building and energy benchmarking requirements, along with federal leasing requirements, the Washington, DC metropolitan region the most ENERGY STAR certified buildings of any U.S. metropolitan area in

2015 and 2016, and leads all U.S. cities in LEED certified square footage per capita.

- The DC Sustainable Energy Utility (DCSEU) was created to help DC residents and businesses invest in energy efficiency and renewable energy. Since 2011, the DCSEU has delivered financial incentives, technical assistance, and information to tens of thousands of District residents and businesses, helping them to save millions of dollars on their energy costs, while stimulating the local economy through contract spending with District businesses and increasing the number of green jobs for District residents.
- Requires electric suppliers to supply 50% renewable energy, including 5% local solar, by 2032. DC provides no-cost solar to low-income residents through its Affordable Solar Program, installing 158 rooftop PV systems last year. In 2017, DC is launching the Solar for All program, with a goal of expanding solar capacity to reduce by at least 50% the electric bills of at least 100,000 low income households by 2032. The District is also rolling out community solar to continue expand the number of DC residents and business that can benefit from solar.

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## West Palm Beach, FL

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### Targets:

- Net Zero community-wide GHGs emissions by 2050

### Significant Climate Actions:

- 2012 Established 'Rethink Paradise West Palm Beach, Sustainability Action Plan' and currently updating
- Member Southeast Florida Regional Climate Compact
- Department of Energy Better Buildings Partner for 20% energy intensity reduction for portfolio by 2020 - goal achiever in 2015; added stretch goal of 15% additional and increased portfolio size
- Charter member of Energy Secure Cities Coalition: committed to transitioning municipal fleet away from petroleum products by 2025; added first all-electric vehicles in municipal fleet in State of Florida, 2010
- Covenant of Mayors for Climate and Energy signatories, only one of nine in State of Florida, regular GHGs inventories and Carbonn reporting
- Mayor Jeri Muoio participated in the Local climate Leaders meeting at the Paris COP 21 negotiations
- Developed innovative Stormwater Master Plan to include Sea Level Rise actions
- ICLEI, USDN member
- Earlier adopter of PACE, expanded to multiple providers in 2017

- First Bike Share program in Palm Beach County
- One of first LED city owned streetlight conversions in South Florida, launching utility owned conversions this year

**New Actions to Announce:**

- Achieved 4-STAR certification from Sustainability Tools for Rating and Assessing Communities in 2016
- Undergoing SolSmart assessment/actions with gold level target
- Developing a Bike Master Plan and Mobility Plan including transportation, parking, complete streets and plans for autonomous vehicles; first protected bike lanes and Dutch intersections approved for development in South Florida

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## West Sacramento, CA

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**Targets:**

- Community GHG Reduction Targets:
  - 30% below “business as usual” emissions in 2005 levels by 2020; and
  - 30% below “business as usual” emissions levels by 2030.
- Municipal GHG Reduction Targets:
  - 30% below current 2005 emissions levels by 2020; and
  - 40% below 1990 emissions levels by 2030 consistent with the statewide emissions target established under Senate Bill 32.

**Significant Actions:**

- Installed solar (rooftop and shade structure panels) at four city facilities, generating over 1 million kW of energy each year.
- Installed two EV charging stations at City Hall and will install two more at a newly constructed city-owned parking lot.
- Replaced approximately 2,500 streetlights with LED fixtures.
- Increased bicycle facilities (class 1-3 trails) by 47% since 2013.