

**Attachment B:
Appendix A - Status of Near Term
Implementation Actions**

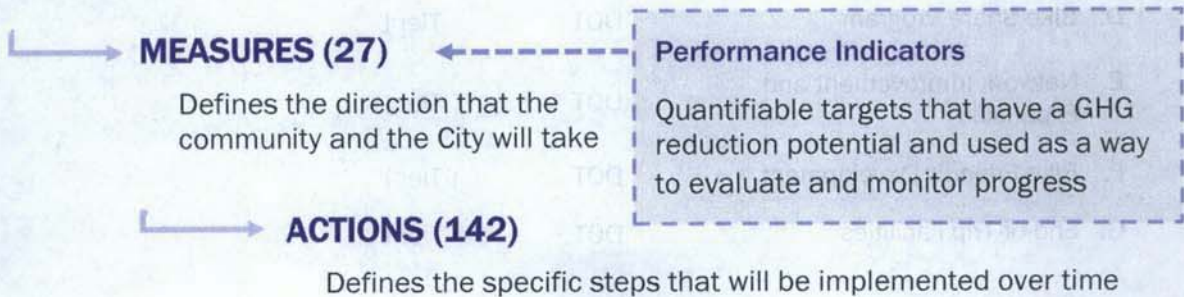
Pasadena Climate Action Plan

Near Term Implementation Actions

The Pasadena Climate Action Plan (CAP) is a long-term plan and strategic framework for measuring, planning, and reducing the City's share of GHG emissions. The CAP identifies five principal strategies to achieve the City's GHG reduction goals for the years 2020 and 2035: (1) Sustainable Mobility and Land Use, (2) Energy Efficiency and Conservation, (3) Water Conservation, (4) Waste Reduction, and (5) Urban Greening. Each strategy includes a series of measures that define the direction the community and the City will take in order to accomplish statewide targets and local reduction goals. The CAP contains 27 measures that are either regulatory, incentive-based, or voluntary. Particular measures support the overall strategy and are qualitative in nature. Other measures include quantifiable targets that can yield approximate GHG reductions. These performance indicators also serve to evaluate the performance of the CAP measure and monitor its success. Each measure consists of a set of implementation actions intended to define the specific steps that both the City and the community will implement over time. The CAP contains 142 implementation actions that include a combination of ordinances, policies, programs, and incentives, as well as outreach and educational activities.

STRATEGIES (5)

Five principle strategies to achieve City's GHG reduction goals



This document provides the status of each CAP implementation action identified as a priority in the near term. Each implementation action is assigned one of the following categories to indicate the level of progress:

- **Tier I:** Action is ongoing or will begin within one year
- **Tier II:** Action will begin within two to five years or revisited
- **Tier III:** Action requires additional funding and/or resources
- **Complete:** Action has been completed
- **Pending:** Awaiting comments

The Departments responsible for implementation assigns the above categories based on the Department's work program and priorities. Of the 88 near term implementation actions, four are completed, 65 are ongoing, 15 will begin within two to five years, three will require additional resources, and one is pending. Notes are included for implementation actions categorized as Tier II or Tier III.

STRATEGY



Sustainable Mobility and Land Use

MEASURE

T-1: Walking and Bicycling

ACTION

T-1.1: Continue to expand the City's bicycle and pedestrian network

	Department	Status	Notes
A. Bicycle Transportation Action Plan	DOT	Tier I	
B. Track Progress	DOT	Tier I	
C. Pedestrian Plan	DOT	Tier I	
D. Bike Share Program	DOT	Tier I	
E. Network Improvement and Expansion	DOT	Tier I	
F. Bike Friendly Development	DOT	Tier I	
G. End-of-Trip Facilities	DOT	Tier I	

Performance Indicators	2018 Progress
2020 <ul style="list-style-type: none"> • Install 3 miles of bicycle lanes • Acquire 400 bicycle share bicycles • install 1 bike share station/mi² 	Undetermined <ul style="list-style-type: none"> • 0 miles of bicycle lanes • 0 bicycle share bicycles • 0 bike share stations

STRATEGY



Sustainable Mobility
and Land Use

MEASURE

T-2: Public Transit

ACTION

T-1.2: Continue to enhance safe, reliable, and seamless transit services

	Department	Status	Notes
A. Seamless Transit	DOT	Tier I	
B. Short-Range Transit Plan	DOT	Tier I	
C. Update Plan	DOT	Tier I	
D. Outreach Activities	DOT	Tier I	
E. Transportation Surveys	DOT	Tier I	
F. Transit Subsidies	DOT	Tier I	
G. Transit Safety	DOT	Tier I	

Performance Indicators

2018 Progress

2020 Achieve 10% transit mode share **Likely** 6% transit mode share.

STRATEGYSustainable Mobility
and Land Use**MEASURE**

T-3: Transportation Demand Management

ACTION

T-3.1: Decrease annual commuter miles travelled by single occupancy vehicles

	Department	Status	Notes
A. Trip Reduction Ordinance	DOT	Tier II	Existing thresholds adequately address project sizes that should be subject to the TRO. Staff will revisit.
B. Trip Reduction Toolkit	DOT	Complete	Project ended in February 2018.
C. Car Sharing	DOT	Tier I	
D. Incentivize Carpooling	DOT	Tier I	

Performance Indicators**2018 Progress**

2020	Achieve 10% carpooling mode share	Likely	7% carpooling mode share.
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STRATEGY



Sustainable Mobility
and Land Use

MEASURE

T-4: Alternative Fuel Vehicles

ACTION

T-4.1: Expand the availability and use of alternative fuel vehicles and fueling infrastructure

	Department	Status	Notes
A. Charging Station Inventory	PWP	Tier I	
B. Electric Vehicle Chargers	PWP	Tier I	
C. Alternative Vehicle Fueling Wiring	PWP	Tier I	
D. Update Zoning Code	Planning	Tier II	Pending on CAL Green Building Code update, schedule for June 2020.
E. Advertise Stations	PWP	Tier I	
F. EV Incentives	PWP	Tier I	
G. EV and Transit Fleet	DOT, PW	Tier I	
H. Hydrogen Fueling Stations	PW	Tier III	City's current priorities are on electric charging stations.

Performance Indicators

2018 Progress

2020	Achieve 5% carpooling mode share	Likely	Information not available at this time.
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STRATEGY



Energy Efficiency and Conservation

MEASURE

E-2: Energy Retrofits of Existing Building

ACTION

E-2.1: Facilitate energy efficient upgrades in existing homes and businesses

	Department	Status	Notes
A. Energy Campaigns	PWP	Tier I	
B. Smart Appliances	PWP	Tier I	
C. Incentive Programs	PWP	Tier I	
D. Provide Resources	PWP	Tier I	
E. Benchmark Use	PWP	Tier I	
F. Promote Audits	PWP	Tier I	
G. Efficiency Financing	PWP	Tier II	Customer Relations team explored external services and determined that they were services that PWP did not want to offer customers. However, as part of the UnderOneRoof, there are housing loans that help finance energy efficiency improvements. PWP also offers a Solar Financing guide on its website.
H. New Customer Audits	PWP	Tier II	New residential customers receive the Welcome Guide where there is information about efficiency audits-UnderOneRoof and Home Improvement Program.
I. Energy Efficient Giveaways	PWP	Tier I	
J. Highlight Success Stories	PWP	Tier I	

Performance Indicators

2018 Progress

2020	Decrease energy use in existing buildings by 16% below 2013 levels	Likely	A GHG inventory is needed to determine data on energy use in existing building.
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STRATEGY



Energy Efficiency and Conservation

MEASURE

E-3: Municipal Operations

ACTION

E-3.1: Increase municipal energy conservation efforts

	Department	Status	Notes
A. City Energy Audits	PW	Tier III	Requires additional funding and resources.
B. Municipal Upgrades	PW	Tier I	
C. Energy Saving Software	PW	Tier I	
D. Plug-Load Management	PW	Tier I	
E. City Renewable Power	PWP	Tier I	As part of the FY21 Operating Budget process staff will assess the costs of shifting all City accounts to the Renewable Power rate.

Performance Indicators

2018 Progress

2020	Decrease municipal energy use by 10% below 2013 levels and/or 10% of municipal energy use be from renewable sources	Likely	<1% decrease in municipal energy use.
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STRATEGY



Energy Efficiency and Conservation

MEASURE

E-4: Residential and Commercial Carbon-neutral Energy

ACTION

E-4.1: Increase City-wide use of carbon-neutral energy by encouraging and/or supporting carbon-neutral technologies

	Department	Status	Notes
A. Promote Solar	PWP	Tier I	
B. Solar-ready Buildings	Planning	Tier I	
C. On-site Carbon-neutral Requirement	Planning, PWP	Tier II	Pending CAL Green Building Code update scheduled for June 2020.
D. 100% Renewable Retail Rate Option	PWP	Tier I	
E. Solar-power Shade Structures	Planning	Tier II	Considering recommendations as part of the General Plan Implementation process
F. Rooftop Solar Study	Planning	Tier III	Requires resources such as staffing and time to identify buildings and follow up with building owners.
G. Promote Solar Installation	Planning, PWP	Tier I	
H. Solar Powered EV Charging	DOT, PWP	Tier II	Preliminary investigation revealed installation would be cost-prohibitive. Staff will continue to monitor viability.
I. Prohibit Non-renewable Customer Generation	PWP	Complete	Approved by City Council on April 30, 2018 to require that new and modified customer-owned self-generation units utilize only renewable fuel sources.

Performance Indicators

2018 Progress

2020	Replace 950,000 kWh of electricity use with carbon-free energy	Achieved	54,822,457 kWh reduction in fossil-fueled energy supply.
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STRATEGY



Water Conservation

MEASURE

WC-1: Potable Water

ACTION

WC-1.1: Reduce potable water use throughout Pasadena

	Department	Status	Notes
A. Urban Water Management Plan	PWP	Tier I	
B. Retrofits and Rainwater Harvesting	PWP	Tier I	
C. Drought-Tolerant Landscaping	Planning	Complete	Council adopted amendments to the City's Landscape Ordinance on 4-23-2018.
D. Landscape Ordinance	Planning	Complete	Council adopted amendments to the City's Landscape Ordinance on 4-23-2018 to adopt the State's Model Water Efficient Landscape Ordinance.
E. School Conservation	PUSD	Pending	
F. Water Efficiency Planning and Outreach	PWP	Tier I	
G. Water Efficiency Study	PWP	Tier II	Pending Metropolitan Water Department's revisions to the Public Agency Landscape Program.
H. Water Efficient Landscape	PWP	Tier I	
I. Water Quality Information	PWP	Tier I	

Performance Indicators

2018 Progress

2020	0% reduction in water consumption per capita (Comply with SB X7-7 target of 20% below SB X7-7 baseline by 2020)	Achieved	26% below SB X7-7 baseline.
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STRATEGY



Water Conservation

MEASURE

WC-2: Non-Potable Water

ACTION

WC-2.1: Increase access to and use of non-potable water

	Department	Status	Notes
A. Non-potable Water Project (NPWP)	PWP	Tier I	
B. NPWP Outreach	PWP	Tier I	
C. Community Greywater Assistance	PWP	Tier I	
D. Greywater Permit Streamlining	PWP, Planning	Tier I	
E. Dual Plumbing Requirements	PWP	Tier II	Pending outcome of the NPWP.

Performance Indicators

2018 Progress

2020	Continue to evaluate the City's NPWP	Achieved	THE NPWP is being redefined for less energy intensive water sources to be developed as first priority.
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STRATEGY



Waste Reduction

MEASURE

WR-1: Solid Waste

ACTION

WR-1.1: Continue to reduce solid waste and landfill GHG emissions

	Department	Status	Notes
A. Zero Waste Strategic Plan	PW	Tier I	
B. Annual Zero Waste Progress	PW	Tier I	Staff committed to providing an update/assessment every three years to City Council committees and commissions. The next update will be presented to Council in 2020.
C. Multi-use Food Containers	PW	Tier I	
D. Zero Waste Outreach *	PW	Tier I	PW will focus on raising recycling awareness through education and outreach to help increase the City's diversion rate.
E. Waste Diversion	PW	Tier I	
F. Source Separated Recycling	PW	Tier I	

Performance Indicators

2018 Progress

2020 Achieve 75% diversion rate **Undetermined***

International policies have affected the recycling market and may impact the City's likelihood to meet the 2020 target since there are a few markets for the recycling commodities generated by the City.

STRATEGY



Waste Reduction

MEASURE

WR-3: Composting and Food Recycling

ACTION

WR-3.1: Implement a city-wide composting program to limit the amount of organic material entering landfills

	Department	Status	Notes
A. Food Waste Recycling	PW	Tier I	
B. Community Outreach	PW	Tier I	
C. Backyard Compost	PW	Tier I	
D. Compost Education	PW	Tier II	Composting for residents will be evaluated in 2019/2020.
E. Composting Facilities	PW	Tier II	PW began discussion with the Sanitation Districts of Los Angeles County for composting the City's green waste.
F. Compost Resources	PW	Tier II	PW anticipates research on compost resource in 2019.
G. Redistribute Mulch/ Compost	PW	Tier I	
H. Compost/ Mulch Program	PW	Tier II	PW began discussion with the Sanitation Districts of Los Angeles County for composting the City's green waste.

Performance Indicators		2018 Progress	
2020	Reduce organic waste by 50% below 2014 levels	Undetermined*	Data unavailable. Per SB 1383, the State will provide guidance for determining this percentage.

STRATEGY



Urban Greening

MEASURE

UG-1: Greenspace*

ACTION

UG-1.1: Continue to preserve, enhance, acquire additional green space throughout Pasadena to improve carbon sequestration, reduce the urban heat-island effect, and increase opportunities for active recreation

	Department	Status	Notes
A. Accessible Open Space	PW, Planning	Tier I	
B. Additional Greenspace	PW, Planning	Tier I	
C. Convert to Greenspace	PW, Planning	Tier I	+
D. Green Space Policies	Planning	Tier I	
E. Native Greenspace	Planning	Tier I	

Performance Indicators	2018 Progress
<p>2020 Acquire 5 new acres of green space</p>	<p>0.3 acres of greenspace has been restored.</p> <p>Likely The new 3.8 acre Desidero Park along with smaller projects will likely allow the City to reach the 2020 target.</p>

* The Green Space and Open Space Element of the General Plan identifies green space as a combination of two types of open space- natural and developed.

STRATEGY



Urban Greening

MEASURE

UG-2: Urban Forest

ACTION

UG-2.1: Continue to protect existing trees and plant new ones to improve and ensure viability of Pasadena's urban forest

	Department	Status	Notes
A. Sidewalk Trees	PW	Tier I	
B. Tree Health Assessment Program	PW	Tier I	
C. Encourage Private Tree Planting	Planning	Tier II	Staff will consider recommendations as part of the General Plan Implementation Process.
D. Tree List	PW	Tier I	

Performance Indicators		2018 Progress	
2020	Plant 500 new trees	Likely	347 new public trees were planted.*

* The Pasadena CAP does not distinguish between public or private trees. The City may have already met the 2020 target but based on the City's available data, the Report only accounts for public trees.