


2018-2020 Sustainability Implementation Plan: 2019 Snapshot



ENERGY GOALS

- Drive building efficiency and electrification through voluntary and mandatory programs
- Mitigate the impacts of natural gas use through carbon offsets (short term) and electrification (mid-to long-term)


KPIs

- **Building Energy Efficiency Savings**
- **Avoided Natural Gas Use Due to Electrification Programs**

	FY17	FY18	FY19
% Electric Efficiency Savings	0.65%	0.63%	0.61%
% Gas Efficiency Savings	0.81%	0.97%	0.44%
Avoided Natural Gas Use Due to Electrification Programs	2017	2018	2019
Cumulative Savings (therms)	1,453	4,916	6,008

2019 Projects Highlights

- Adopted an all-electric mandate for residential new construction projects effective April 1, 2020
- Initiated Multifamily (MF) Building Gas Furnace Retrofit Pilot
- Launched Induction cooktop loaner program with Acterra
- Replaced the sewage sludge incinerators with a more environmentally friendly Sludge Dewatering & Truck Loadout Facility



WATER GOALS

- Reduce inefficient water consumption
- Ensure adequate water supply from sustainable sources
- Protect canopy, creeks, groundwater, and the bay


KPIs

- Per Capita Potable Water Use (Gallons/Per Capita/Day)
- % Recycled Water (RW) Use (Volume of RW/RW filter Capacity)

	2017	2018	2019
Per Capita Potable Water Use (Gallons/Per Capita/Day)	134	142	137
% Recycled Water (RW) Use (Volume of RW/RW filter Capacity)	16%	18%	17%

2019 Projects Highlights

- Approved an agreement with the Santa Clara Valley Water District and the City of Mountain View to design and construct a salt removal facility at the Regional Water Quality Control Plant (RWQCP), gives Valley Water the option to acquire about half of the treated wastewater produced by the RWQCP, and for Palo Alto to have a future option for water supply.
- Completed a Green Stormwater Infrastructure Plan
- Identified water reuse alternatives



MOBILITY GOALS

- Reduce Single Occupancy Vehicle (SOV) travel
- Make it more convenient not to drive


KPIs

- **SOV commute mode share**
- **Transit Ridership (Caltrain)**
- **Commute Benefits**

	2016	2017	2018	2019
Drive Alone (Downtown)	56%	53%	49%	42%
Transit (Downtown)	18%	20%	27%	39%
Carpool (Downtown)	6%	8%	9%	8%
Transit Ridership (Caltrain)	FY2016	FY2017	FY2018	FY2019
Average Weekday Ridership	9,052	9,072	9,457	9,018
Commute Benefits	2016	2017	2018	2019
City Employee Participation	269	288	275	335

2019 Projects Highlights

- Established the Office of Transportation
- Participated in and advocated for regional transit programs
- Increased active transportation mode share for school commutes
- Adopted a Housing Work Plan Implementation Ordinance



ELECTRIC VEHICLE GOALS

- Accelerate electric vehicle (EV) penetration
- Make "Going EV" more convenient and economical than using fossil fueled vehicles

KPIs

- EV penetration (Palo Alto)
- GHG emissions avoided (MT CO2e)

	2015	2016	2017	2018	2019
EV penetration (Palo Alto)	1,200	2,000	3,100	4,000	4,500
GHG emissions avoided (MT CO2e)	2,880	4,800	7,440	9,600	10,800

2019 Projects Highlights

- Drafted three-year EV workplan to increase adoption of EVs
- Awarded \$1 million CALeVIP grant for EV charger installations at commercial properties, including non-profits, multi-family, and mixed-use buildings
- Identified replacement strategy to expand EV deployment in City Fleet
- Identified strategy to more than double publicly owned EV chargers
- Completed a Customer Survey on EV adoption barriers
- Co-sponsored workshops and ride-and-drive events for 400+ customers