

Status Update on the 2013 Greenhouse Gas Reduction Plan

November 19, 2019



Agenda

- Background
- Assessment
- Next Steps

What is Greenhouse Gas (GHG)?

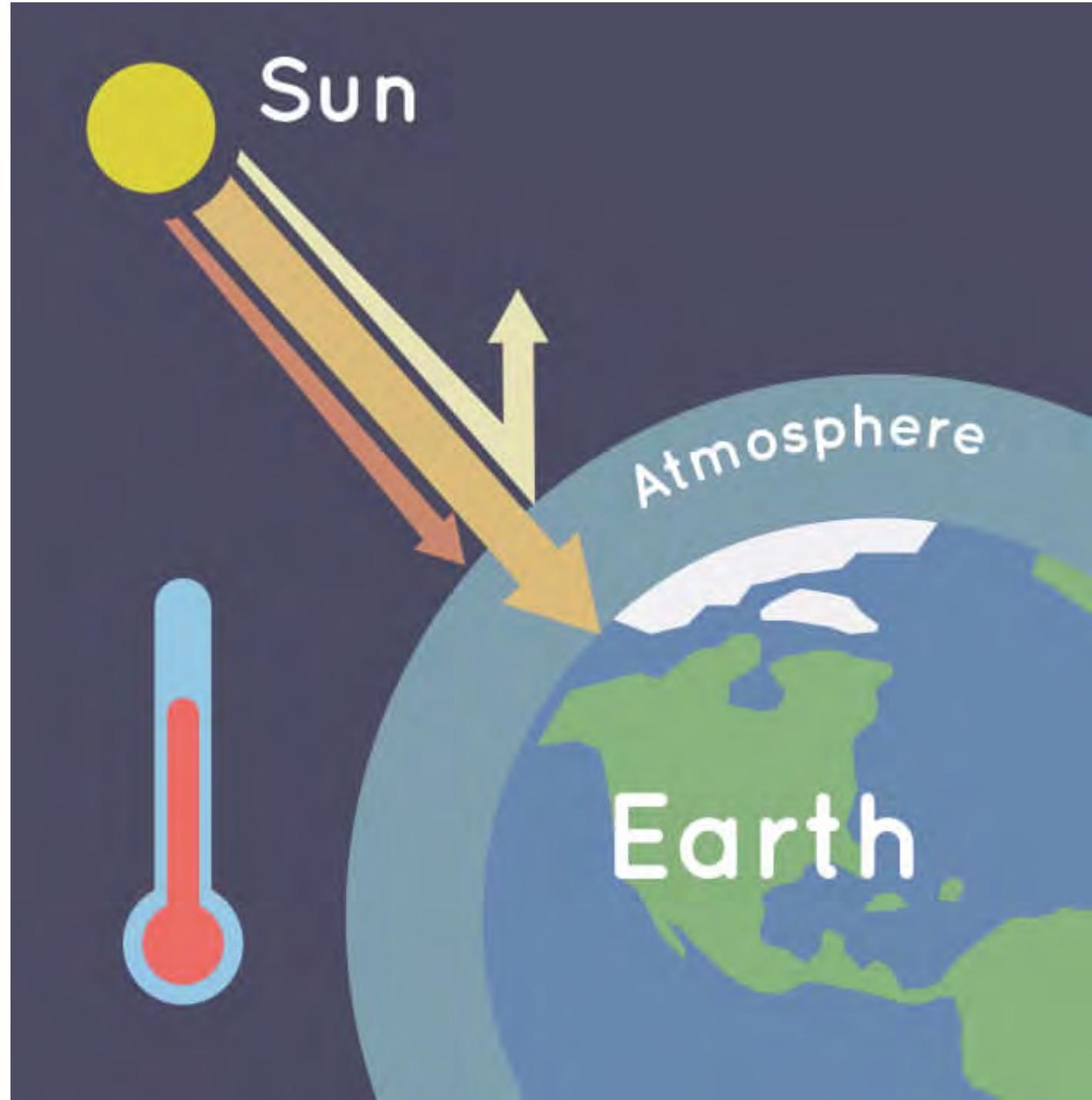
Gases that absorb and emit heat in the atmosphere

Carbon Dioxide

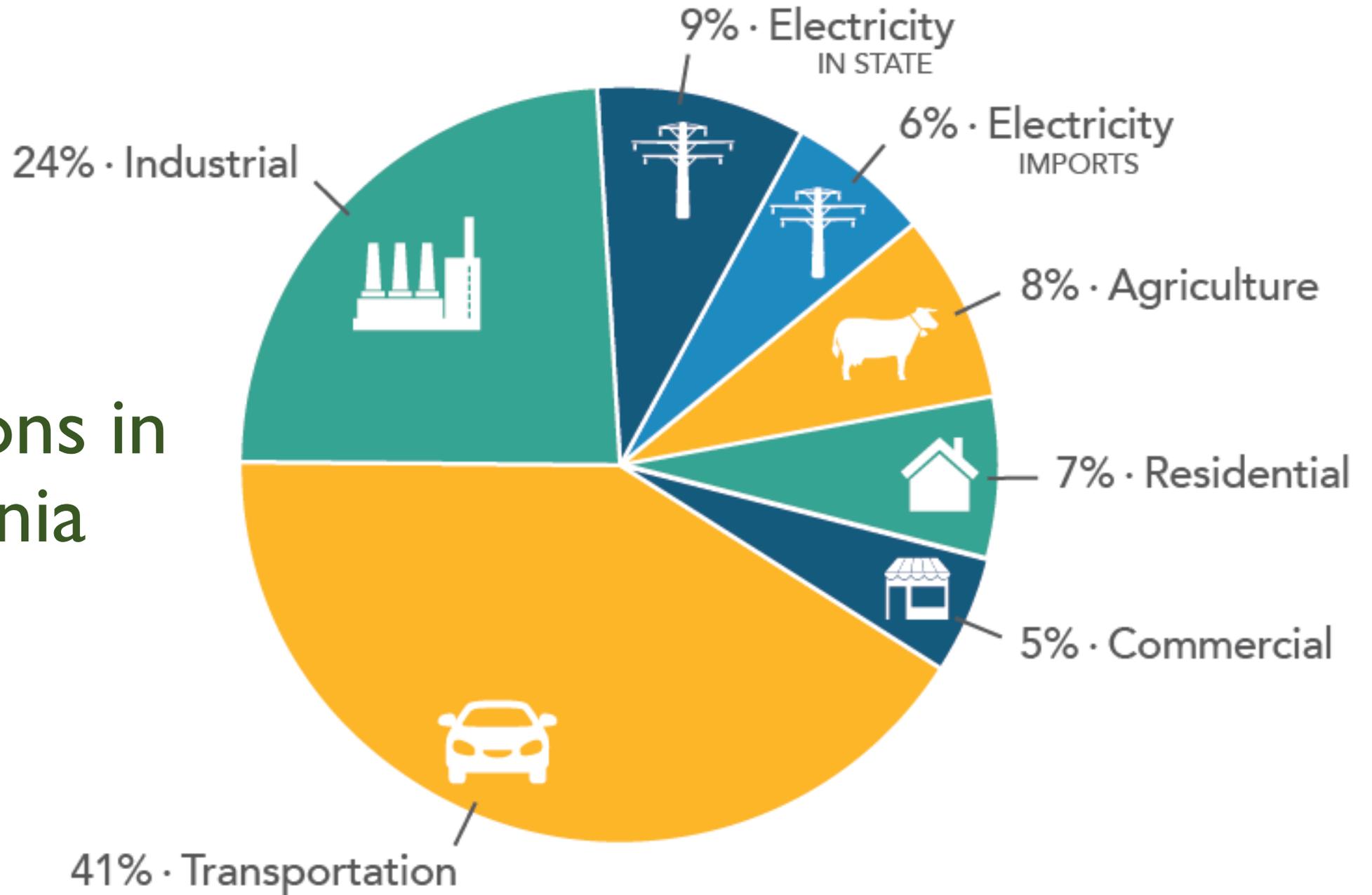
Methane

Nitrous oxide

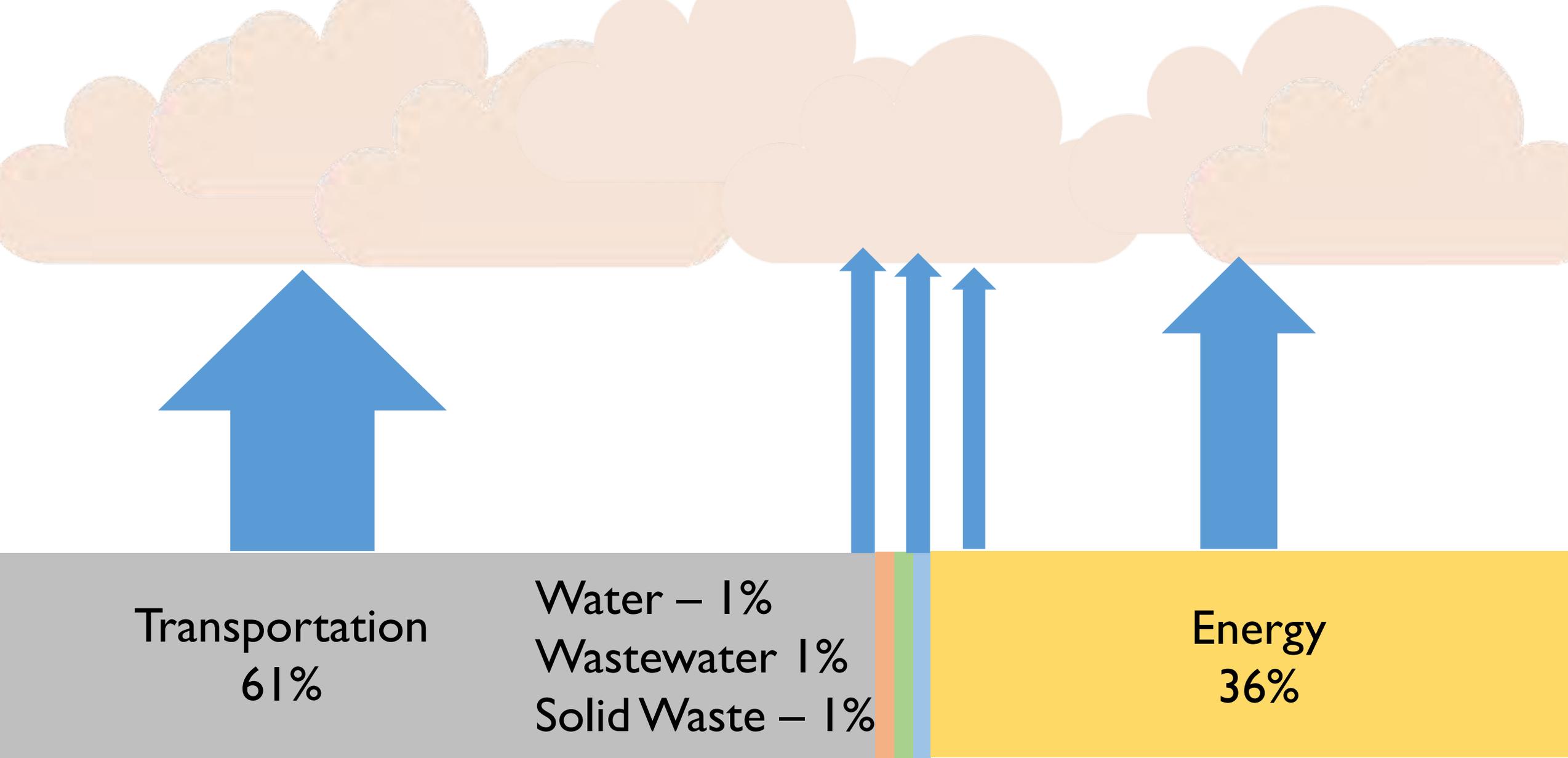
Fluorinated gases



GHG Emissions in California



GHG Emissions in Burbank



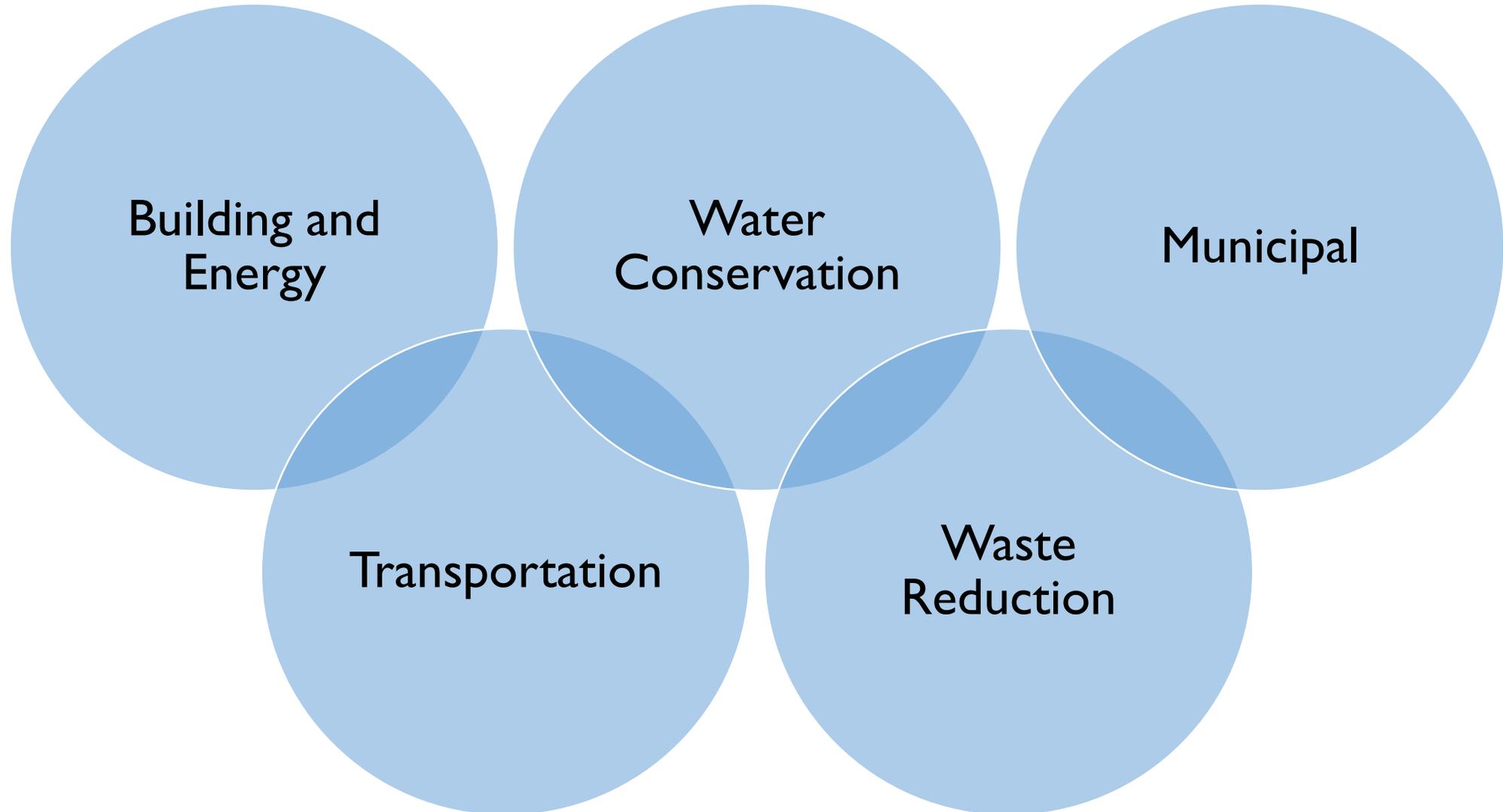
Timeline

- February 13, 2013 – GGRP and the Burbank2035 General Plan were adopted
- 2015 – Updated Recycled Water Master Plan
- 2017 – Update on Potable Water Distribution System Master Plan
- 2018 – Integrated Resource Master Plan
- 2019 – Updated Street Lighting Master Plan
- Early 2020 – Complete Streets Plan (Upcoming)

2020 & 2035 Target Goal

- 2010 jurisdictional emissions inventory and projections
- 2020 communitywide emissions reduction of 15% below 2010 jurisdictional emissions levels
- Through 2035, the goal is 30% below 2010 jurisdictional emission level

5 Strategy Areas



5 Strategy Areas

Strategy Area	Action Steps	2020 Performance Metrics	2035 Performance Metrics
Building & Energy	24	19	19
Transportation	29	3	3
Water Conservation	4	2	2
Waste Reduction	7	4	4
Municipal	2	0	0
TOTAL	66	28	28

Assessment

Measures	2020 Target Reduction (MT CO ₂ e)	2020 Measure Implementation Progress (MT CO ₂ e)
Subtotal GGRP Measures	45,677	43,302
Emissions Gap (MT CO ₂ e)	2,375	
Shortage of Goal (%)	5%	

Strategy I – Building & Energy

Measures	2020 Target Reduction (MT CO ₂ e)	2020 Measure Implementation Progress (MT CO ₂ e)
E-1.1: Energy Efficiency in New Construction	702	441
E-1.2: Energy Efficiency Retrofits	1,932	9,142
E-1.3: Energy Star Appliances	735	223
E-1.4: Smart Grid Integration	1,027	63
E-1.5: Cool Roofs	261	505
E-1.6: BWP Energy Conservation Programs	2,291	3,544
E-1.7: Building Shade Trees	671	675
E-2.1: Renewable Energy Requirements	3,422	9,623
E-2.2: Solar Photovoltaic Systems	3,317	
E-2.3: Solar Water Heater Systems	Supporting Measure – Not Quantified	
E-3.1: Light-emitting Diode Street Lights	Supporting Measure – Not Quantified	
Building and Energy	14,358	20,673

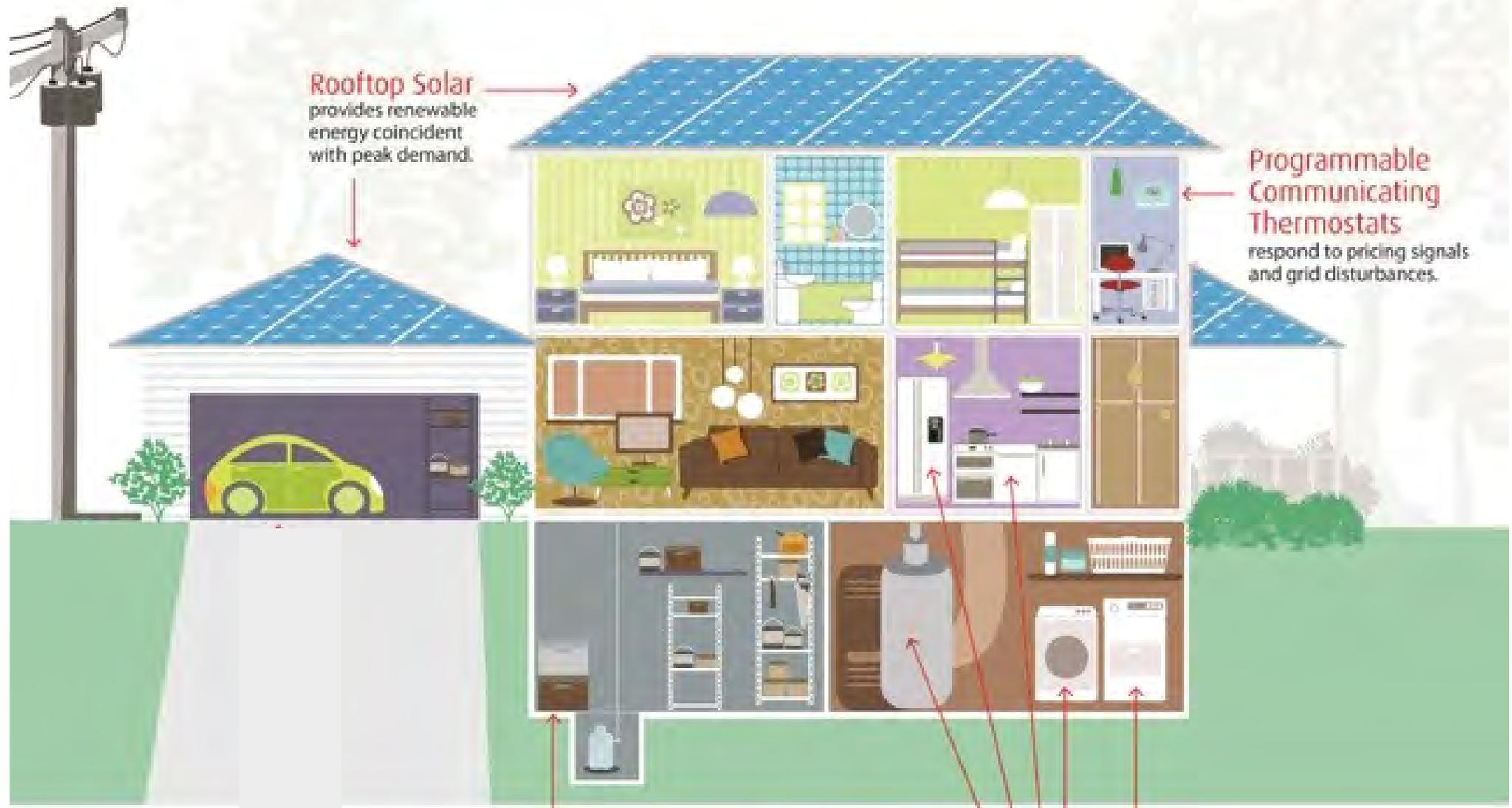


AVION BURBANK

CONNECT. CREATE. INNOVATE

AVION





Rooftop Solar
provides renewable energy coincident with peak demand.

Programmable Communicating Thermostats
respond to pricing signals and grid disturbances.

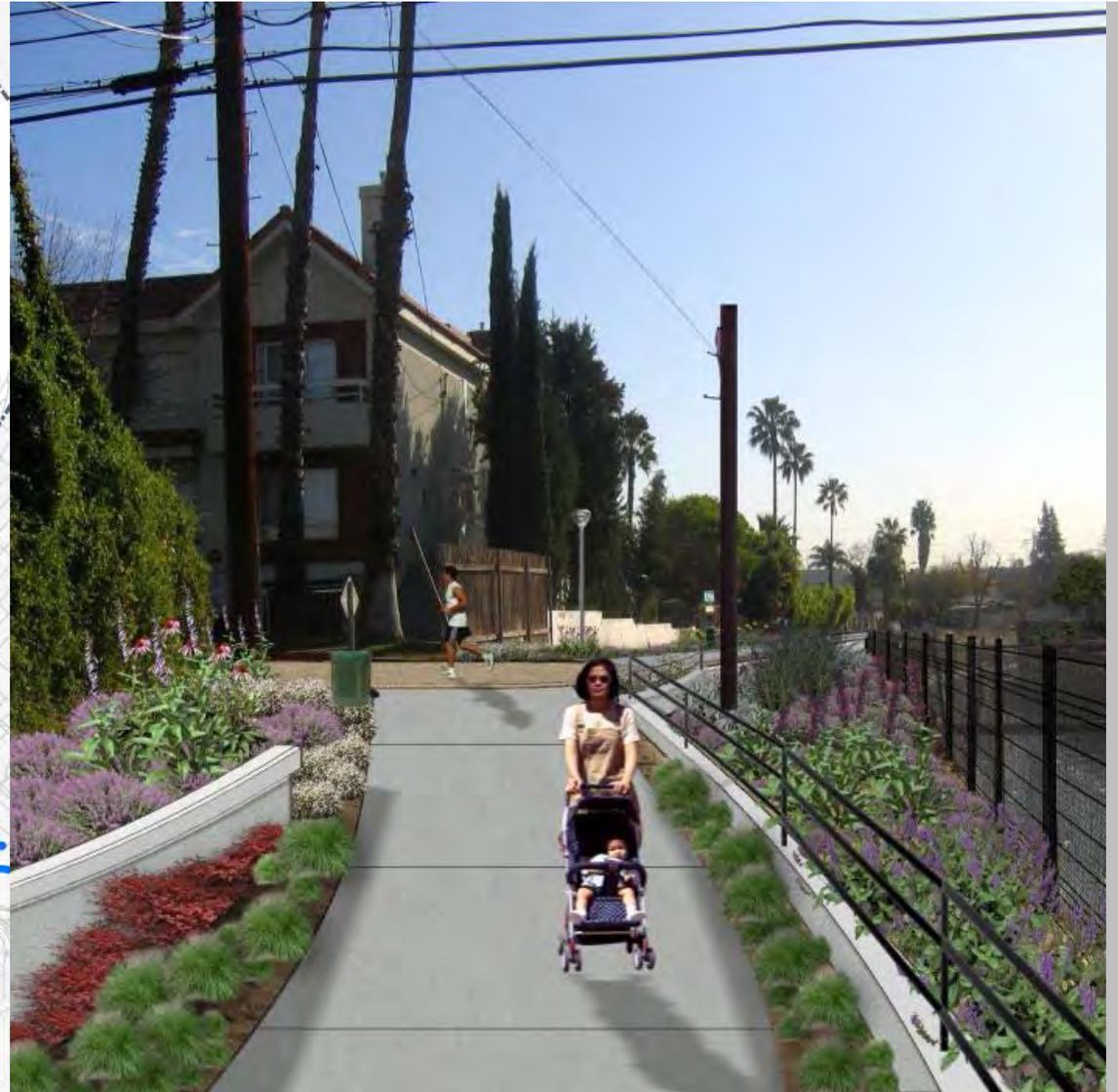
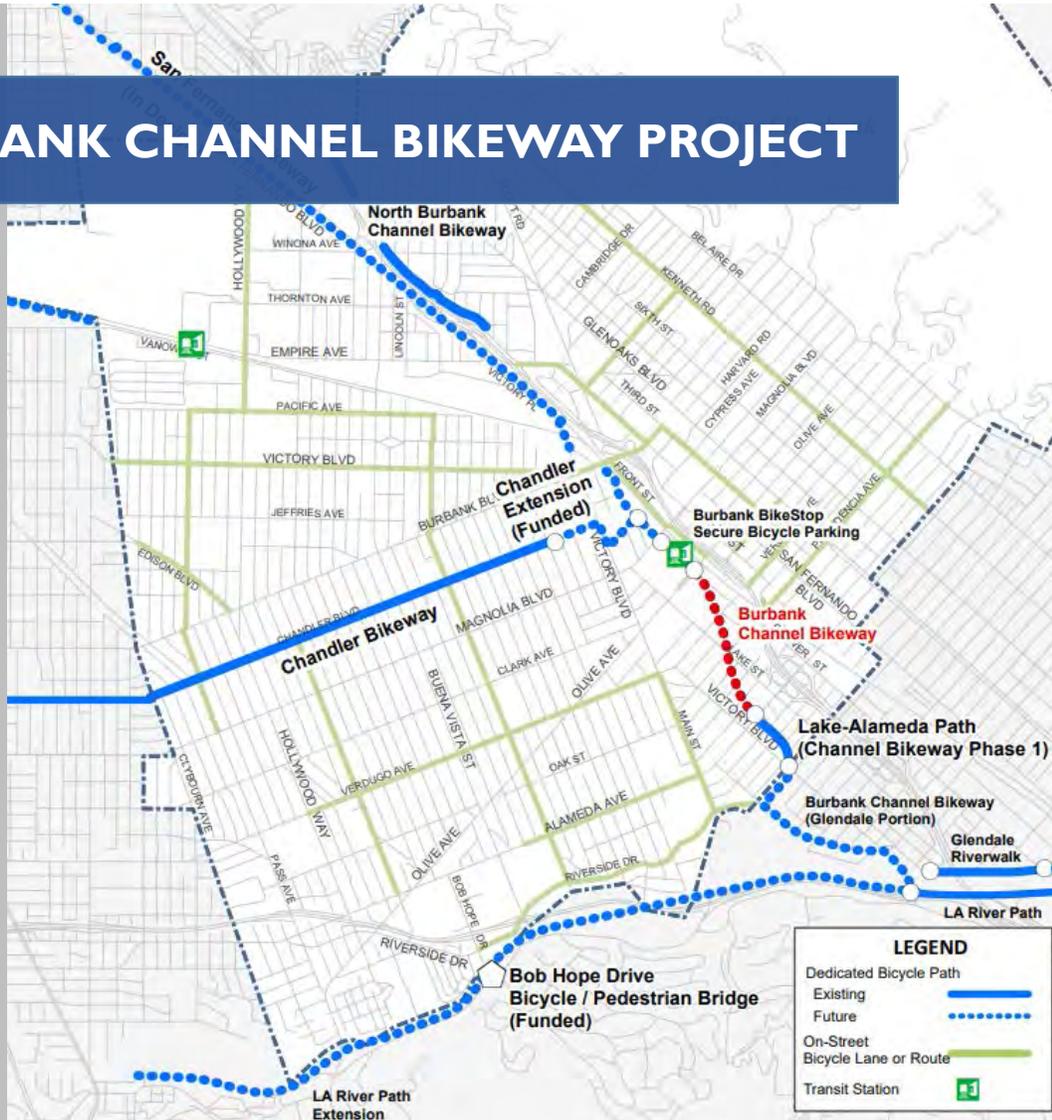
Smart Appliances
Respond to grid disturbances and shifts consumption during peak demand periods.

Strategy 2 - Transportation

Measures	2020 Target Reduction (MT CO ₂ e)	2020 Measure Implementation Progress (MT CO ₂ e)
T-1.1: Pedestrian Enhancements	191	508
T-1.2: Safe Routes to School	Supporting Measure – Not Quantified	
T-1.3: Bicycle Education Program	Supporting Measure – Not Quantified	
T-1.4: Bicycle Infrastructure Expansion	355	399
T-1.5: Bicycle Accommodation Ordinance	Supporting Measure – Not Quantified	
T-2.1: Trans. Mgmt. Organization Expansion	16,687	8,807
T-3.1: Traffic Signal Coordination	Supporting Measure – Not Quantified	
Transportation	17,233	9,714

Strategy 2 - Transportation

BURBANK CHANNEL BIKEWAY PROJECT



Strategy 3 – Water Conservation

Measures	2020 Target Reduction (MT CO2e)	2020 Measure Implementation Progress (MT CO2e)
W-1.1: Water Conservation Programs	20	20
W-1.2: Recycled Water Use Master Plan	178	126
W-1.3: Stormwater Management Plan	Supporting Measure – Not Quantified	
Water Conservation	198	146

Strategy 3 – Water Conservation



Strategy 4 – Waste Reduction

Measures	2020 Target Reduction (MT CO ₂ e)	2020 Measure Implementation Progress (MT CO ₂ e)
SW-1.1: Food Scrap & Compostable Paper Diversion Ordinance	2,032	1,080
SW-1.2: Yard Waste Diversion Ordinance	244	212
SW-1.3: Lumber Diversion Ordinance	1,012	877
SW-1.4: Reusable Bags	Supporting Measure – Not Quantified	
SW-1.5: Recycling Ordinance	Supporting Measure – Not Quantified	
SW-1.4: Enhanced Methane Recovery	10,600	10,600
Waste Reduction	13,888	12,769

Strategy 5 – Municipal

Measures	2020 Target Reduction (MT CO ₂ e)	2020 Measure Implementation Progress (MT CO ₂ e)
Municipal Measures		Supporting Measure – Not Quantified
CG-1.1: Sustainability Coordinator		Supporting Measure – Not Quantified
CG-1.2: Sustainability Element		Supporting Measure – Not Quantified

New State Regulations & Programs

Assessment

1. State Regulations
2. BWP's 2019 Integrated Resource Plan
3. New and Old Technology Related to Energy Efficiency
4. Transportation Electrification Activities

California State Regulations

- SB 32, California Global Warming Solutions Act of 2006: emissions limit
- AB 1826: Solid waste; organic waste
- AB 876: Compostable organics
- SB 1383: Short-lived climate pollutants; methane emissions; dairy and livestock; organic waste; landfills

2019 Integrated Resource Plan

- Policy guidance focuses on reliable, affordable, and sustainable electric service to Burbank.
- Establishes a goal to achieve a 100% GHG-free power supply for Burbank by 2040 or sooner.

2019 Integrated Resource Plan



Adopted by Burbank City Council at
its December 11, 2018 Meeting



New and Old Technology Related to Energy Efficiency

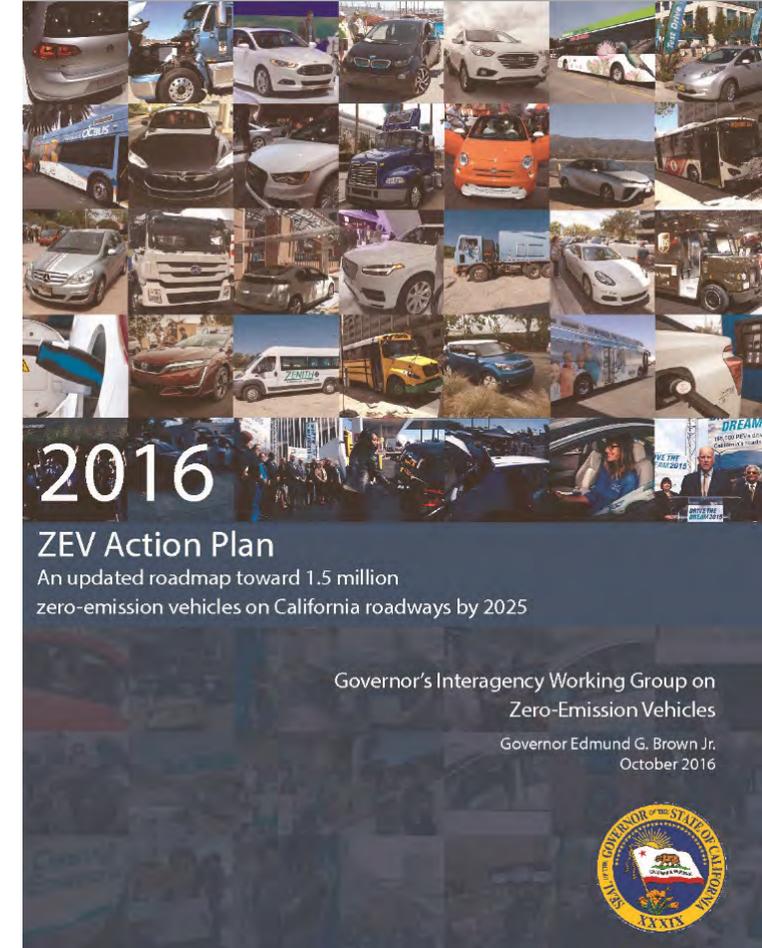
- Old technology: Solar water heater system



- New Technology: Proposed design of time-varying energy rates that encourages residents to shift their consumption away from higher cost periods to lower cost periods.

Transportation Electrification Activities

- GHG emissions reductions related to AB 32, former Governor Brown's Zero Emission Vehicle Action Plan that calls for a goal of 1.5 million electric vehicles (EV) on the road by 2025.
- BWP's transportation electrification initiative promotes the adoption of EVs through public charging infrastructure, customer rebates, and optimized electric rate design.



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Next Steps

- Staff will continue to review the existing actions steps and performance metrics to meet 2020 goals.
- Update GGRP
 - Conduct Community outreach
 - Provide update to City Council
 - Develop Monitoring and Reporting Tool
 - Inform the public online

Staff's Recommendation

- Staff recommends to receive and file this report
- Provide staff with input regarding the City's Greenhouse Gas Reduction Plan (GGRP) and the proposed 2020 update

Questions?

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