CLIMATE ACTION PLAN

Urban Forest Summit

San Diego Regional Urban Forest Council

October 3, 2018

Crystal Najera, CAP Program Administrator
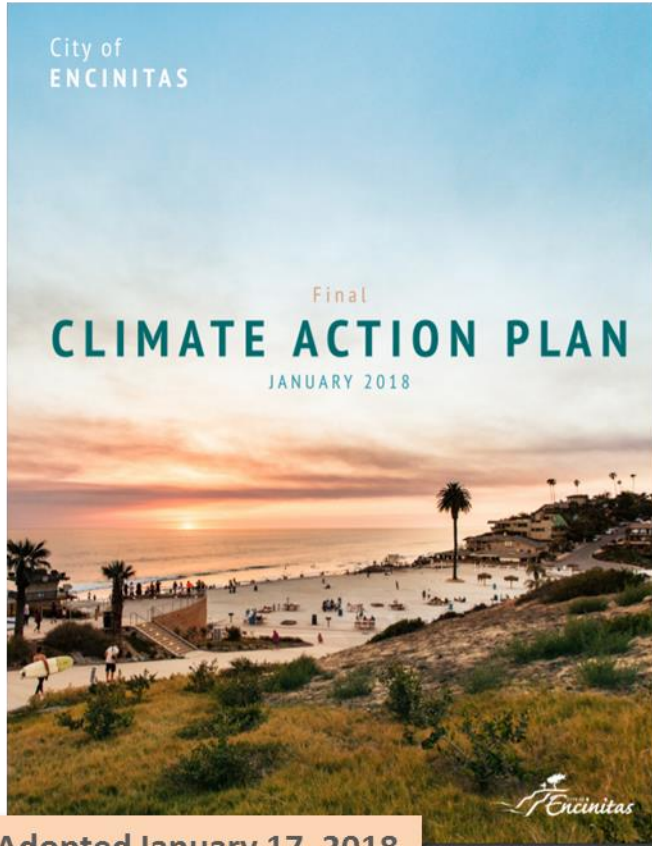
1. What is a Climate Action Plan?

2. Current Emissions

3. Reduction Targets

4. City Actions

5. Urban Forest Actions and Measures

- **Estimates current Greenhouse Gas emissions**

- **Sets GHG emissions reduction targets**

- **Provides actions and measures to reduce emissions**

- **Plans for climate change**

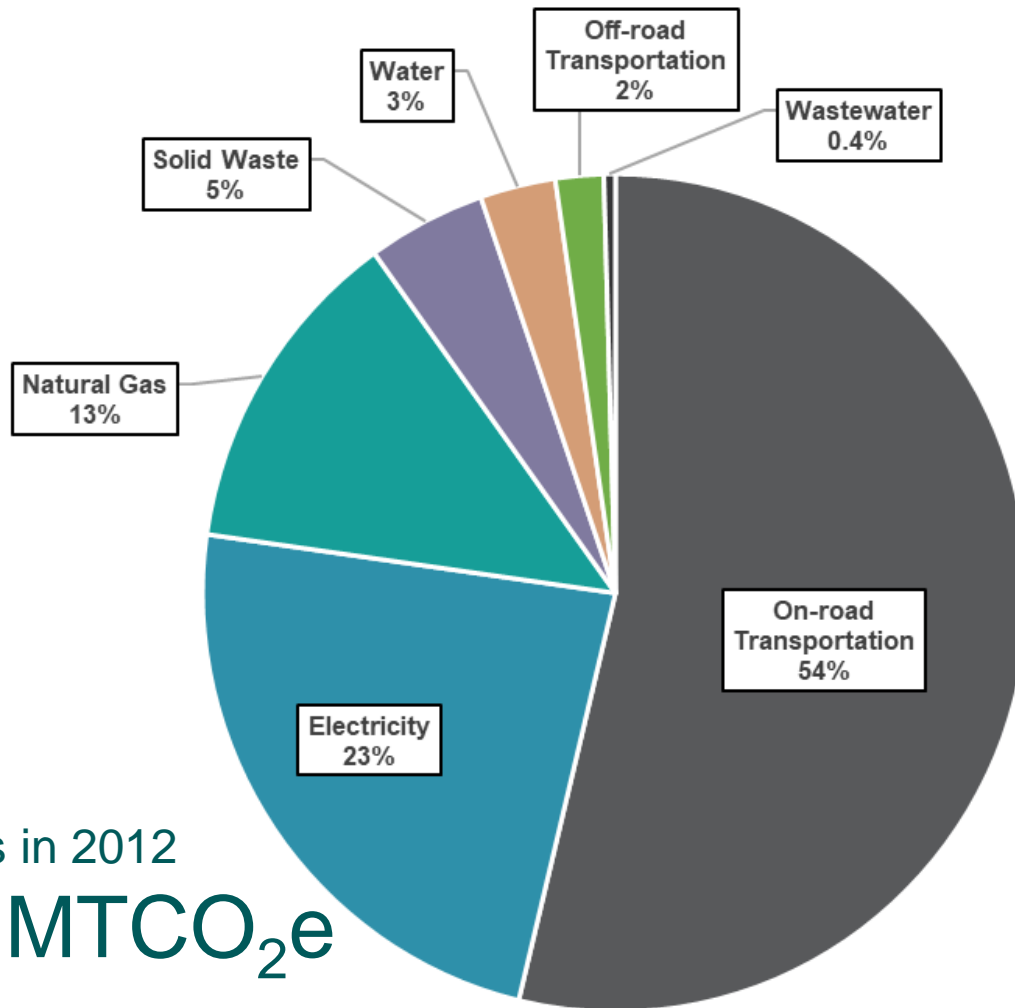- **Outlines a plan to track progress**

City of
ENCINITAS

Final

CLIMATE ACTION PLAN

JANUARY 2018

Encinitas

Adopted January 17, 2018

EncinitasEnvironment.org

Off-road
Transportation
2%

Water
3%

Wastewater
0.4%

Solid Waste
5%

Natural Gas
13%

On-road
Transportation
54%

Electricity
23%

Total Emissions in 2012
480,000 MTCO$_2$e

Greenhouse Gas Emissions

13% by 2020 — 420,000 MTCO$_2$e

41% by 2030 — 280,000 MTCO$_2$e

CITY ACTIONS

Renewable Energy	Reductions in 2020 (MTCO$_2$e)	Reductions in 2030 (MTCO$_2$e)
Community Choice Energy Program	0	43,644
New Homes Install Solar	141	614
Commercial Buildings to Install Solar	59	452
Municipal Solar	233	746

source
v
CCA

delivery
v
UTILITY

customer
v
YOU

image courtesy LEAN Energy US
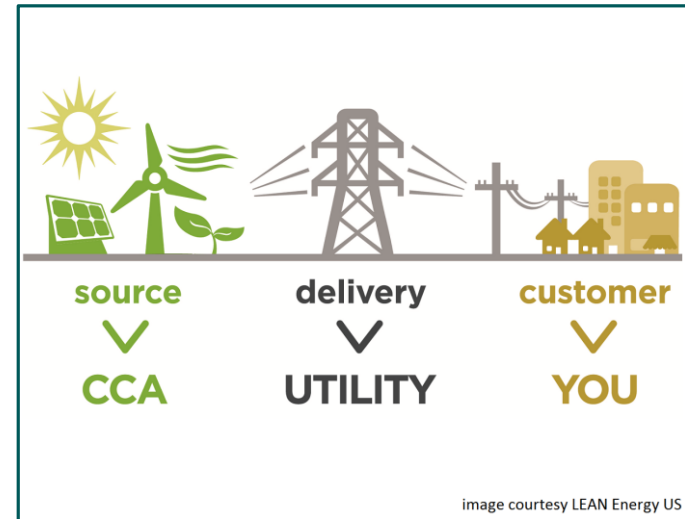
CITY ACTIONS

Zero Waste	Reductions in 2020 (MTCO$_2$e)	Reductions in 2030 (MTCO$_2$e)
Implement a Zero Waste Program	2,830	11,921

Photo Source: Solana Center for Environmental Innovation

CITY ACTIONS

Building Efficiency	Reductions in 2020 (MTCO$_2$e)	Reductions in 2030 (MTCO$_2$e)
Residential Energy Audits at Permitting	47	122
New Single-Family Solar Water Heaters	130	1,241
Commercial Buildings – Energy Efficiency	98	220
Commercial Buildings – Install Solar Water Heaters	612	2,728
Municipal Facilities – Energy Efficiency	54	44

CITY ACTIONS

Clean and Efficient Transportation	Reductions in 2020 (MTCO$_2$e)	Reductions in 2030 (MTCO$_2$e)
Citywide Active Transportation Plan	Non-Quantified	Non-Quantified
Local Shuttle System	1130	172
Improve Traffic Flow	3,671	2,839
Residential EV Charging Stations	185	1,357
Commercial EV Charging Stations	440	1,789
Zero Emission Vehicle (ZEV) Municipal Fleet	55	370

CITY ACTIONS

City Action	Reductions in 2020 (MTCO$_2$e)	Reductions in 2030 (MTCO$_2$e)
Water Efficiency		
Water Rate Studies and New Water Rates	712	735
Off-Road Transportation		
Leaf Blower Ban	128	142
Carbon Sequestration		
Urban Tree Planting Program	5	23
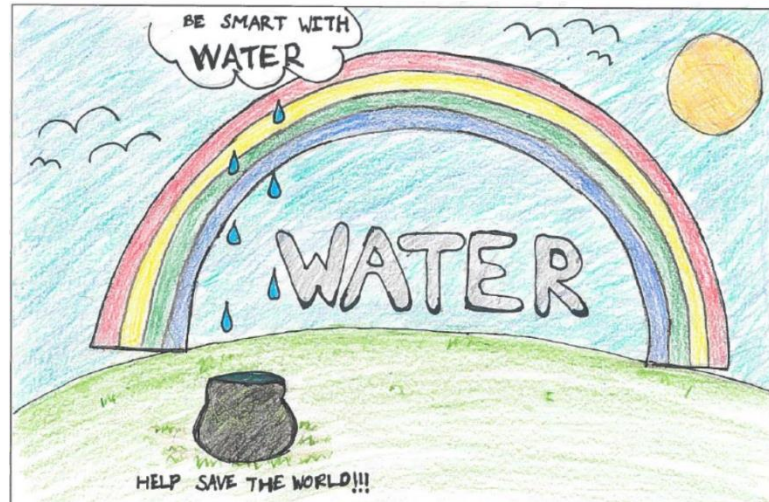
| Table 3-9 Strategy 7: Carbon Sequestration		
Goal 7.1: Increase Urban Tree Cover		
City Action: CS-1 Develop and Implement an Urban Tree Planting Program		
Starting in 2018, develop and implement an Urban Tree Planting Program, including standards to right-size trees and minimize pruning and irrigation needs, to promote increased carbon sequestration by trees within the community.		
Target Year	**Performance Metric**	**GHG Reduction Potential (MTCO$_2$e)**
2020	150 net new trees planted.	5
2030	650 net new trees planted, increasing the tree canopy coverage from 22 to 22.16 percent, an increase in overall tree canopy of 0.16 percent.	23

➢ Plant 50 net new City trees annually

➢ Each tree = 0.035 MTCO$_2$e (avg) based on CALEEMOD

Supporting Measures for Goal 7.1:
Increase Urban Tree Cover
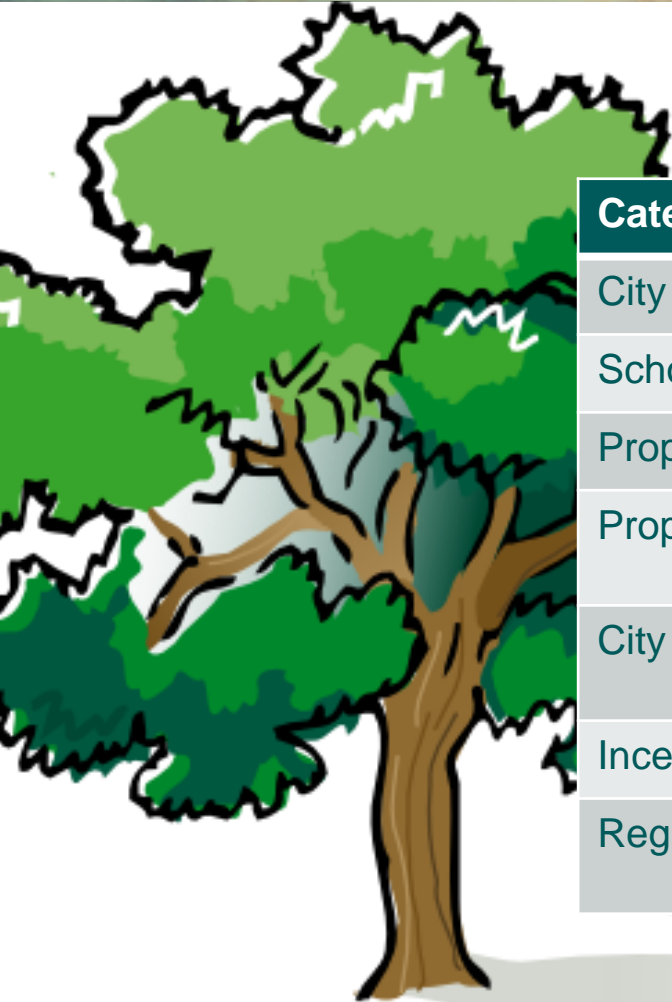
Category	Supporting Measure
City Parks	Turf management with compost
Schools	Education about the benefits of trees
Property Development	Tree avoidance and/or 1:1 replacement
Property Development	New parking lots: 1 tree planted for every 5 parking spaces
City Ordinance	Require and/or incentivize tree planting on private property
Incentives	Tree seedling giving away on Arbor Day
Regional Coordination	LiDAR imagery data collection and analysis on tree canopy coverage

Cost and resources (per year):

➢ 50 trees

➢ 80 staff hours

➢ $20,000 in landscape services

Co-benefits of Urban Trees:

➢ Improved air quality

➢ Improved Water Quality

➢ Improved botanical resources

➢ Improved Community/Public Health

➢ Cooling Benefits

➢ Energy Conservation

➢ Water Savings

➢ Increased property value

Questions?

For more info:

www.EncinitasEnvironment.org

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