# CRYSTAL NAJERA SUSTAINABILITY MANAGER

## SUSTAINABILITY

**CLIMATE ACTION PLAN COASTAL ZONE ENVIRONMENTAL COMMISSION MANAGEMENT** 

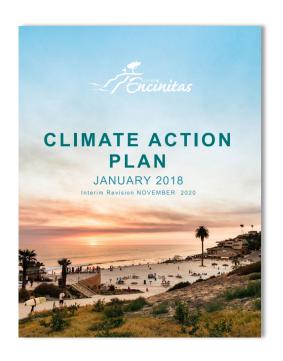
POLICIES,
PROJECTS,
AND PROGRAMS

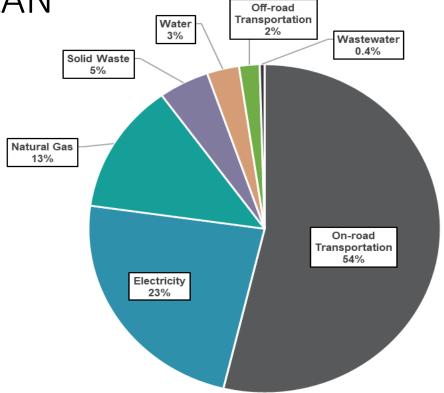
# ENCINITAS CLIMATE ACTION

- Climate Action Plan adopted 2018
- Climate Emergency Declared 2020



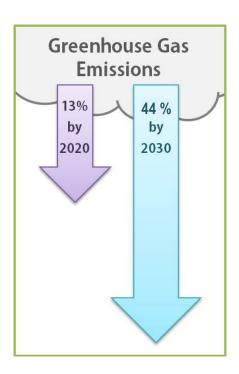
## CLIMATE ACTION PLAN





460,000 metric tons of CO<sub>2</sub> equivalent greenhouse gas emissions in 2012

## CLIMATE ACTION PLAN



Strategies	Goals
Building Efficiency	Reduce Building Energy Consumption Reduce Municipal Operation Energy Consumption
Renewable Energy	Achieve 100% Renewable Electricity Supply in Homes and Businesses Increase Renewable Electricity Supply in Municipal Operations
Water Efficiency	Reduce Citywide Potable Water Consumption
Clean and Efficient Transportation	Reduce Vehicle Miles Traveled Reduce On-road Fuel Use Increase Use of Alternative Fuels
Reduce Off-Road Equipment	Reduce Off Road Fuel Use
Zero Waste	Divert Solid Waste
Carbon Sequestration	Increase Urban Tree Cover

## **CLIMATE ACTION**









## COASTAL ZONE MANAGEMENT









## FUTURE PROJECT NEEDS

Future/Unfunded Projects	CAP Measure	Cost Estimate
Microtransit Study	CET-2	\$235,000
Microtransit Program	CET-2	\$1.0 - \$1.5 million, annually
EV Charging for City Fleet	MCET-1	\$500,000
30+ Electric Fleet Vehicles (incl. Plug-In	MCET-1	\$3 million
Electric Fire Engine)		
200-400 Public EV Charging Stations	CET-4 / CET-5	\$10-\$20 million
6 roundabouts	CET-3	\$20-40 million
Energy Efficiency Measures at City	MBE-1	\$5 million*
Facilities		
Solar PV Systems at City Facilities	MRE-1	\$10-15 million*
Implement Active Transportation Plan	CET-1	\$30-\$50 million
Coastal Storm Damage Reduction Project	Adaptation	\$50 million every 5 years

<sup>\*</sup>Energy savings over time would repay some costs.



# Microtransit Program

Neighborhood electric vehicles that offer on-demand service within a defined service area

## Cost Estimate:

• Planning Study: \$235,000

Program: \$1.0 - \$1.5 M, annually



# City Fleet Electric Vehicles

## **Current Fleet**

• Light duty 43% electric

## **Future Needs**

- 30+ light duty vehicles
- Medium/heavy duty
- Fire engines

Cost Estimate: \$3 million



# EV Charging for City Fleet

## **Completed Locations**

- Public Works
- City Hall

## **Future Needs**

- Community Center
- Fire Stations
- Wastewater
- Expansion

Cost Estimate: \$500,000

# Public EV Charging Stations

EV Charging stations to support electric vehicle ownership

#### **Future Needs**

Level 2: 250 stations

DC Fast: 50 stations

Cost Estimate: \$10-20 million





## Roundabouts

## **Completed Locations**

- Leucadia and Hermes
- Leucadia and Hymettus
- Hwy 101 and El Portal

## **Future Locations**

- Leucadia and Hygeia
- Hwy 101 and Jupiter Street
- Hwy 101 and Grandview
- Hwy 101 and Morgate Road

Cost Estimate: \$20-40 million

# Energy Efficiency and Solar PV at City Facilities

## Major City Facilities

- City Hall
- Community and Senior Center
- Public Works
- Library
- Fire Stations

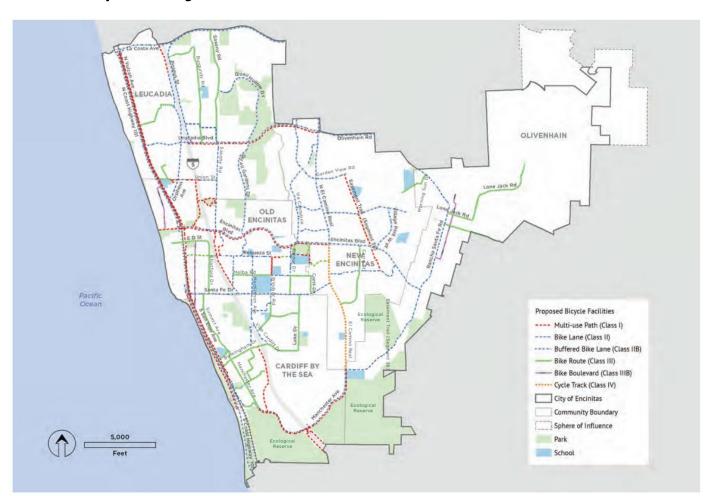
Cost Estimate: \$10-20 million

\*Energy savings over time would repay some upfront cost.



# **Mobility Projects**

Install all projects identified in the Active Transportation Plan.



## Coastal Storm Damage Reduction Project





- Beach fill for 7,800 feet of shoreline
- From Beacon's to D Street
- 340,000 cubic yards of sand
- Every 5 years for the next 50-years
- Cost estimate: \$50 million per project
- Funded by Transient Occupancy Tax



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