AUGUST 16, 2024



# CITY OF SEDONA Decarbonization Roadmap

# **Sedona Climate Action Plan goals**

### **2030: CARBON NEUTRAL MUNICIPAL OPERATIONS**

By 2030, the City aims for municipal operations to be carbon neutral. While much of this reduction will require changing how and what type of energy the City consumes, some reliance on carbon offsets may be necessary.

**2030: ALL CITY PASSENGER VEHICLES ZERO EMISSIONS** By 2030, the City strives to transition all passenger vehicles in the City fleet to 100% zero emissions vehicles.

**2025: ALL MUNICIPAL ELECTRICITY 100% RENEWABLE** By 2025, the City will transition to consuming 100% renewable energy for municipal operations.

# BUILDINGS

RENEWABLE All power from renewable electricity ELECTRICITY - on or offsite. Converting systems to operate from ELECTRIFICATION electricity = enable powering with RENEWABLY POWERABLE renewable electricity. EFFICIENCY/ Using less gasoline, natural gas, and LOAD REDUCTION fossil-fuel created electricity = lower carbon. REDUCED Using existing buildings = avoided carbon **EMBODIED CARBON** from constructing new buildings.

OR OFFICIAL USE O

INFRASTRUCTURE





### **Previous Sedona Decarbonization Actions**



Wastewater Treatment Plant solar



**Brewer Road Campus Solar** 



**Autani Energy Monitoring** 



**HVAC Roof Top Unit Electrification** 



**EV chargers** 



Arizona Public Service Renewable Energy Credit purchase



LED streetlight (equipment purchased, not yet installed)



Wastewater Treatment Plant efficient operations

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• High decarbonization integrity – no greenwashing







- High decarbonization integrity no greenwashing
- Provide the greatest value for the least cost







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- Provide the greatest value for the least cost
- Be fiscally responsible don't replace equipment before it's worn out

REQUIRED ONGOING EQUIPMENT REPLACEMENT COST

ELECTRIFIED ALTERNATIVE COST

Net Cost of Mechanical Electrification







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- Be fiscally responsible don't replace equipment before it's worn out

REQUIRED ONGOING EQUIPMENT REPLACEMENT COST

ELECTRIFIED ALTERNATIVE COST

Net Cost of Mechanical Electrification

• Use proven technologies







#### 

# Key findings







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- A clear, cost-effective path for achieving decarbonization targets exists





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- A clear, cost-effective path for achieving decarbonization targets exists
- The biggest CO2 reductions:
  - Conversion to EVs
  - On- and off-site renewables
  - Wastewater treatment plant efficiency



- The City's current operations are fairly efficient
- A clear, cost-effective path for achieving decarbonization targets exists
- The biggest CO2 reductions:
  - Conversion to EVs
  - On- and off-site renewables
  - Wastewater treatment plant efficiency
- City-generated renewable electricity is less expensive than buying it from utility



# Annual Energy Use and Carbon Emissions **Today**



# Annual Energy Use The Details

Facilities <b>12</b> %	CITY HALL	
Fleet	CITY VEHICLES	Electricity <b>47%</b>
47%	PUBLIC TRANSPORTATION	
Infrastructure	WWTP PROCESS	Fossil Fuels <b>53%</b>
<b>41%</b>	LIFT STATIONS	

### Energy Use and Carbon Emissions Current State > Decarbonized Future State

#### 2030 DECARBONIZED FUTURE STATE HOW? HOW? Efficiency/load reduction • Efficiency/load reduction On-site solar Renewable powerability (electrification) APS Green Commit Offsite Renewables **ON-SITE FOSSIL** DIRTY FUEL USE: ELECTRICITY: DECREASING DECREASING OVER TIME **OVER TIME** TODAY CURRENT STATE 1056 507 M TONS **M TONS** ANNUAL FOSSIL FUEL CO,E ANNUAL ELECTRICITY CO, E

#### How to eliminate Sedona's climate impact?

Climbing the spire of decarbonization



#### **Climbing the Spire of Decarbonization**





CURRENT STATE

### **Decarbonization Roadmap Over Time - Overview**



### **Decarbonization Roadmap Over Time – by Facility**

FACILITY	EFFICIENCY/LOAD Reduction	ELECTRIFICATION	ON-SITE Renewables	APS Renewables									
	PH	ASE ONE 2	024	PH.	ASE TWO 2	025	РНА	SE THREE	2027		PHASE F	OUR 2030	
City Hall Campus	X			X	Х	x		X			X		x
Wastewater Admin	X			x	x								x
Wastewater Ops	X			X	X						X		x
Posse Grounds Park	X			X	x	X					x		х
PW Maintenance	х			X	x	х			·		x		x
Brewer Road Campus	Х			Х				-				х	X
Wastewater Plant						Х							
Street Lights	X			X									x

# Full decarbonization cost

Total Lifetime Implementation Cost	\$13.0m
Avoided Equipment Replacement Costs	(\$2.0m)
Lifetime Project Operating Savings	(\$6.0m)
Total Incentives (IRA & Utility Rebates)	(\$1.0m)
Total Net Cost of Decarbonization	\$4.0m

# Levelized kwh Cost Analysis

Efficiency/Load Reduction	9 cents/kwh
City-Owned Onsite Solar	9.7 cents/kwh
Avoided Cost of Solar-displaced APS Electricity (Real-Time)	10.3 cents/kwh
APS Current Blended Rate	18 cents/kwh
APS Offsite Renewable Rate	19 cents/kwh

# **Cobenefits**



#### NET BENEFIT OF DECARBONIZATION WITH QUANTIFIED COBENEFITS: \$847,926





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### Recommended Efficiency/Load Reduction Measures by Facility



FACILITIES	HVAC/LIGHTING Controls	RETROCOMMIS- Sion	ENVELOPE /DUCT SEAL	CONTROLS Optimize	WINDOW/DOOR Replacement	HEAT PUMP Hw	PLUG Loads	TEST/ Balance
City Hall Campus	x	x	x	x	x		x	x
Wastewater Admin						x	x	x
Wastewater Ops						x	x	
Posse Grounds Park	x		x	x			x	
PW Maintenance	x		x	x	x	x	x	
Brewer Road Campus	x		x	x			x	

### **Efficiency – Infrastructure**





INFRASTRUCTURE	CURRENT ELECTRICITY USE, kWh	POTENTIAL Electricity Reduction, kWh	POTENTIAL Electricity Reduction, %
Wastewater Plant	1,062,222 (Net Solar) 1,821,222 Gross	208,000	11.4%
Street Lights	132,784	80,249	60%

### **Vehicle electrification**





FACILITY	PASSENGER	PATROL Passenger	HEAVY Duty	LARGE HEAVY DUTY	TRANSIT	NON- Road	TOTAL
City Hall Campus	26	24	-	-	-	1	51
Brewer Road Campus	3	-	-	-	-	-	3
Public Works Maintenance (Contractors Rd)	14	-	3	-	-	10	27
Wastewater Treatment Plant	5	-	3	-	-	1	9
Shuttle Fleet TBD	-	-	-	-	6	-	-
TOTAL	48	24	6	- 1	6	12	93

### Vehicle electrification Building electrification



Electrify 41 heating systems across four facilities



*Up to* 64 overnight charging locations and 5 fast charging locations for fleet vehicles across three facilities

	BUILDING
	FLEET
INFRAS	STRUCTURE EFFICIENCY
BUILD	ING EFFICIENCY
	CURRENT USE
 ELECTRICITY	

#### FUTURE ON-SITE SOLAR BUILDING ELECTRIFICATION FLEET ELECTRIFICATION Sedona can cost-effectively self-generate INFRASTRUCTURE EFFICIENCY 44% of its post electrification electricity with solar panels. **BUILDING EFFICIENCY CURRENT USE FOSSIL FUEL** ELECTRICITY POSSE CONTRACTORS POSSE **CITY HALL** GROUNDS **BREWER ROAD** WWTP ROAD **GROUNDS HUB** CONCESSIONS 204.9KWDC 18.5KWDC 129.7KWDC 31.6KWDC 159.1KWDC 353,000 KWH/YEAR 32,000 KWH/YEAR 240,000 KWH/YEAR 18.5KWDC 51,700 KWH/YEAR 247.000 KWH/YEAR GROUND MOUNT SHADE CANOPIES SHADE CANOPIES 32.000 KWH/YEAR SHADE CANOPIES **ROOF MOUNT ROOF MOUNT**

### **Onsite renewable electricity**

### **Purchased Renewable Electricity**



### **Bringing it together – full Roadmap details**

-	EFFICIE	NCY						HVAC ELECTRIFICATION			VEHICLE ELECTRIFICATION				ONSITE SOLAR				
PHASE ONE (2024)	THERMS Annual Reduc- Tion	THERMS ANNUAL SAVINGS, \$	PROPANE Gallons Reduc- Tion	PROPANE Annual Savings, s	KWH ANNUAL REDUC- TION	KWH Annual Savings, S	CONSTRUC- Tion Cost, s	ANNUAL Therms Savings	ANNUAL Propane Savings	ANNUAL KWH INCREASE	ANNUAL HVAC ELEC- Trification Savings, \$	HVAC ELEC- Trification Cost, S	ANNUAL Fuel Savings	ANNUAL KWH INCREASE	ANNUAL EV Electri- Fication Savings, \$	EV Electrifica- tion cost, \$	ANNUAL KWH Generated	ANNUAL SAVINGS, S	COST, \$
Facility efficiency - controls optimization	1,081	\$1,081	215	\$485.9	45,732	\$7,317.12	\$275,000												
LED street light installation					80,298	\$12,847.68	\$225,000												
PHASE TWO (2025)																			
Facility efficiency - all other measures	1,329	\$1,329	78	\$176.28	287,839	\$46,054.24	\$467,900												
HVAC ELECTRIFICATION																			
City Hall Campus								1,390		-14,171	-\$895	\$1,822,277							
WWTP									626	-6,092	\$406	\$76,943							
Posse Grounds Park												\$115,509							
Contractors Rd								988		-1,074	-\$304	\$183,093							
EV ELECTRIFICATION																			
City Hall Campus							- 10						21,418	-685,050	\$34,209	\$1,559,000			T
WWTP					-			1					1,498	-51,500	\$2,130	\$220,000			
Contractors Rd							i.i.						8,977	-487,500	\$1,502	\$901,000	-		
SOLAR																			
City Hall Campus			_										1.0				353,013	\$36,452	\$1,265,277
WWTP											_						239,886	\$25,143	\$621,950
Posse Grounds Park																	83,831	\$12,557	\$498,324
Contractors Rd																	246,927	\$19,594	\$717,299
PHASE THREE (2027)																			
HVAC ELECTRIFICATION						_				_									
City Hall Campus								1,358		-13,848	-\$874	\$593,850					-		
EV ELECTRIFICATION		_																	
City Hall Campus		_									_		14,279	-456,700	\$22,952	\$1,046,000		-	_
Brewer Road													381	-6,000	\$444	\$102,000			
SOLAR																			
Brewer Rd						A.C											32,138	\$4,522	\$214,197
PHASE FOUR (2030)																			
HVAC ELECTRIFICATION		_			_			_	_	_				_	_	_			
City Hall Campus								2,095		-21,354	-\$1,348	\$1,509,600							
WWTP									3,218	-31,332	2,087	\$233,100							
Contractors Rd								706		-7,196	-\$217	\$55,500							
Posse Grounds Park												\$333,000							
TOTAL	2,410	\$2,410	293	\$662.18	413,869	\$66,219.04	\$967,900	6,537	3,844	-95,067	-\$1,145	\$4,922,872	46,553	-1,686,750	\$61,237	\$3,828,000	946,795	\$98,268	\$3,317,047

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Decarbonize based on Roadmap





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- Implement substantial EV/Solar phase now capture IRA, accrue benefits





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- Add additional renewable target: By 2025, the City will transition to consuming 100% renewable electricity for municipal operations, which may include REC purchases. By 2030, all City renewable electricity will be attributable and additional.



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- Resolve Wastewater Plant/solar/efficient opportunity

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- Resolve Wastewater Plant/solar/efficient opportunity
- Leverage City offsite renewable purchase to include community

AUGUST 16, 2024



# CITY OF SEDONA Decarbonization Roadmap

# Upcoming decarbonization implementation

- LED streetlight retrofit
- Autani building controls
- Design/proposal development for 2025 EV/solar/building electrification project

### Upcoming decarbonization implementation Design/Proposal development for:



Passenger EV Chargers @ City Hall, Brewer Rd, PW, WWTP



Solar @ City Hall, Brewer Rd, PW, Posse Grounds, WWTP



**HVAC** electrification



Electrical capacity upgrades for electrification + solar



WWTP efficiency

City Hall Retrocommissioning

Building envelope/duct sealing

Test and balance (City Hall and WWTP)

# AB 3098 – Decarbonization & Sustainability Updates September 2024



### Agenda



Decarbonization Roadmap Presentation with McKinstry

- Municipal GHG Emissions
- □ Programming Updates:
  - Sustainable Neighborhoods Program
  - Northern Arizona Solar Co-op
  - ADEQ Recycling Receptacles
- Upcoming Events:
  - Household Hazardous Waste Collection
  - Arizona Water Festival
  - Climate Resiliency Workshops

### **Decarbonization Roadmap**

### **McKinstry Presentation**

\*See McKinstry Slide Deck



#### **Decarbonization Phase One Projects**



#### Autani Building Controls



LED Streetlights (equipment purchased, not yet installed)

**FY25 Phase One Installation Projects:** 

- □ FY25 Budgeted Projects
- □ Site Walk Occurred on September 4<sup>th</sup>
- □ Proposals to Be Reviewed and Evaluated
- □ Installation of LED Streetlights
  - > Proposals to Be Reviewed and Evaluated
  - Would replace over 140 Streetlights with LED Luminaires
- □ HVAC Optimizations
  - Provide Additional Facility Control
  - > Automation
  - Light Sensors
  - Motion Controls



# Upcoming Decarbonization Implementation

Design/Proposal Development For:



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### **Municipal GHG Inventories**







#### 2023 Municipal Emissions Estimates by Scope

- □ Scope 1 GHG emissions from sources located within the city boundary
- **Scope 2** Emissions from <u>grid-supplied electricity within city</u>
- Scope 3 All other emissions that occur outside of the city as a result of activities within the city

#### 1%<sup>0%</sup>0% Estimated 2023 Municipal Emissions – Location Based 3% 2% 2% 1% 0% WWT Electricity Fleet Employee Commute 8% Buildings and Facilities Public Transit Solid Waste Buildings & Facilities (Gas Service) 16% Streetlights & Traffic Signals WWT Electricity (Transmission and Distribution) Losses) Water Delivery Wastewater Treatment Processing (Denitrification)







#### Market Based 2023 Municipal Emissions Estimates:

#### Estimated 2023 Municipal Emissions (Market Based)

- Fleet
- Employee Commute
- Public Transit
- Solid Waste
- Buildings & Facilities (Gas Service)
- Water Delivery
- Wastewater Treatment Processing
- Process and Fugitive Emissions
- Buildings and Facilities
- Buildings and Facilities (Transmissions and Distribution Losses)
- Streetlights & Traffic Signals





#### 2023 Municipal Emissions Estimates by Category – 1,469 MT CO<sub>2</sub>e Total



#### Yearly Municipal Emissions Estimates (Market-Based)

#### **Takeaways From Municipal GHG Inventory**



- Emissions Reductions Largely in Electricity (Bundled RECs)
- □ Natural Gas Increases (Cold 2023 Winter)
- Employee Commuting Relatively Unchanged
- □ Increase in Fleet Emissions
  - > Continued Difficulty in EV Availability in 2023
  - More EVs anticipated in FY25
- Scope 1 and 2 Emissions Covered by Roadmap w/ Two Exceptions
  - Public Transit Vehicles:
    - o Lack of Charging Infrastructure
    - o Models Not Available or Prohibitively Expensive
    - o Avoided 383 MT at Community Level in 2023
  - Heavy Duty Equipment:
    - o Models Not Available or Prohibitively Expensive
- Carbon Offsets or Direct Air Capture Needed to Reach Goals (Particularly in Scope 3)



# **Programming Updates**





#### Sustainable Neighborhoods Update



#### **Building a More Sustainable and Resilient City**

- □ Launched in the Spring of 2024.
- □ Les Springs First Participating Neighborhood
- Over 100 households
- □ Les Springs Hosted First Workshop
  - Topics Covered Rooftop Solar and Solar Co-ops
  - Solar United Neighbors Joined





#### **CAP Sector 5: Climate Resilience**

#### Northern Arizona Solar Co-op

#### Results from all Northern Arizona Co-ops



- 533 joined a co-op
- 151 installed solar
- 1.17 MW installed capacity
- \$3.5M invested in local solar
- \$6.6M energy savings over 25 yrs

26 solar jobs created

15,700 metric tons of lifetime CO2e offsets



#### Installations by City:

121

26

Flagstaff:	
Sedona:	
Cottonwood:	
Camp Verde:	
Parks:	
Clarkdale:	
Prescott:	

#### **Bringing Green Energy and Resiliency to Community**

- □ 4<sup>th</sup> Round Launching in Late September
- Solar 101 Webinar Sessions
- Residents Directly Evaluate and Select Installers
- □ Free to Sign Up
- □ Help Reduce Utility Costs
- Improve Resiliency
- □ Reduce Emissions

#### **CAP Sector 5: Climate Resilience**





### **ADEQ Recycling Grant**

Awarded Grant from Arizona Department of Environmental Quality:

Amount Awarded: \$53,650
 Procured 10 BigBelly Recycling Receptacles

#### **Goals for Recycling Project**

- Recycling Data Retrieval
- □ Improve Waste Diversion Efforts
- Additional Collaboration with Community Partners
- Greenhouse Gas Reductions in Waste Management
- Community Educational Opportunities with Side Panel Messaging

#### Actions Taken:

- □ Status Report Updates for ADEQ
- Public Works Installed 10 Receptacles at the 4 Locations
  - Sunset Park
  - Posse Grounds Park
  - Posse Ground Park and Ride Trail Shuttle Stop
  - Bowstring SR-179 Park and Ride Trail Shuttle Stop







### **ADEQ Recycling Grant**

#### **Actions Taken:**

- Utilizing Alert Messaging System to Increase Collection Efficiencies
- □ Collaboration with Sedona Recycles and ADEQ
- Educational/Bilingual Standardized Recycling Signage
- □ Educational Side Panel Messaging:
  - > Youth Climate Action Artwork Displayed on Side Panels
  - Future Collaboration with ADEQ, Transit, and Parks and Recreation on Additional Side Panel Messaging
- □ 1 Month of Recycling Data
  - > Diverted 484.7 Pounds of Recycling From Landfill
  - Plastic = 119.25 LBS
  - ➢ Aluminum = 52.46 LBS
  - ➢ Glass = 312.99 LBS











Plastic, Aluminum, & Glass Recycling at **Sunset Park** 



Plastic and Aluminum Recycling at **Posse Ground Trail Shuttle Stop** 



#### **Contrast w/ Waste Data from non-ADEQ Receptacles**

Implementation of BigBelly Waste Receptacles:

- □ 10 Smart Waste Receptacles Installed Fall 2023
- Utilizing Clean Software to:
  - Collect Waste Data
  - Provide Notifications to Staff to Improve Collection Efficiency

#### **Project Updates:**

- Transferred 3 BigBelly Smart Waste Receptacles From the Bus Lines to Parks and Shuttle Stops
- □ Approx. 161,037.68 LBS of Landfill Waste Collected Since Start of Project
- Previous Month Data: (June 23-July 23) approx. 12,977.4 LBS of Landfill Waste w/ No Recycling Efforts Established at that Time



#### Recycling & Trash Collected July 24-Aug 23 (LBS.)

	Sunset Park	Posse Ramadas	Posse Shuttle	Bowstring Shuttle
Plastic	22.12	22.12	30.41	44.6
Aluminum	0	0	17.49	34.97
Glass	120.38	192.61	N/A	N/A

Total BigBelly Trash = 866.76 LBS

Avg. Total Trash from all <u>140 Receptacles</u> = **12,134.64 LBS** 

Total Waste Diverted From Landfill = 484.7 LBS., or approximately 4% of all waste collected from Parks, bus lines, trailhead shuttles, and other city areas

- In General, More Waste is Created at Parks and Trailhead Shuttle Locations Compared to the Bus Lines
- Initial Recycling Efforts are Working After First Month



#### **School Sustainability Education Efforts**

#### **Goals for Education Efforts**

- Connect School Leadership to Community Partners
- □ Assist with Projects, Presentations, Fieldtrips, Community Collaborations

#### **Actions Taken:**

- □ 2023-2024 School Year
  - Completed Climate Action Artwork Project w/ West Sedona School
  - > Wastewater Presentation for 3rd Grade
  - Community Development Dark Sky Symposium for 5th Grade
- □ Monthly STEM Leadership Meetings
- August City Staff Joined WSS Community Partners Meet-and-Greet for STEM Programming
- July/Aug. Installed Artwork on ADEQ Recycling Receptacles
- > Worked with Sedona Public Library Staff to Display Artwork **Future Goals:**
- Red Rock High School/Middle School Meter Hero Project, Composting, Gardening, and Others







#### **CAP Sector 5: Climate Resilience**

# **Upcoming Events**



#### Climate Resiliency Workshops – September 26<sup>th</sup>

#### **Home Energy & Efficiency** WORKSHOP

#### to save energy and money. September 26, 2024 11-12 pm 6:30-7:30 pm Sedona Public Library 3250 White Bear Rd. Sedona, AZ

Learn wavs

#### **Spanish Resources Available**

18#11+f+

DEPARTMENT OF ECONOMIC SECURITY

For more information: Call 928-203-5115

CozyHo

aps

UniSourceEnergy SERVICES Save money. Practice efficiency.

#### **Home Energy Efficiency** Workshop - September 26th

- □ Highlight Benefits of Energy Savings, Emissions Reductions, and Home Livability through Energy Efficiency Services and Utility Offerings
- Connect Residents to Resources Provided by:
  - Arizona Public Service
  - Unisource Energy Services
  - □ AZ Department of Economic Security
  - □ City of Sedona

#### **Emergency & Weather Preparedness Workshop** Nov. 2024

- □ What to do before, during, and after an emergency
- □ Ready Sedona Emergency **Preparedness Plan, Know your** zones

#### Food Systems Workshop Spring 2025

- □ Food Production education on community gardening, composting,
- Food Distribution

#### **CAP Sector 5: Climate Resiliency**



#### Upcoming Household Hazardous Waste Event – October 5<sup>th</sup>

- October 5, 2024, from 8AM to 12PM at West Sedona School (WSS) Parking Lot
- Gth Annual Event
- Partnering with Yavapai County, Clean Harbors, Westech Recyclers, Assured Document Destruction, Ponderosa Medical, and West Sedona School
- Accepting Electronics, Pesticides, Paints, Acids, Cleaners, Batteries, Light Bulbs, and Other Household Chemicals/Cleaners
- □ Accepting New Items This Year:
  - Paper Documents for Shredding
  - > Medical Waste Liquids, Pills, Sharps, Vitamins, etc.

#### 2023 had 375 Participants

- > Up From 177 in 2022
- ➢ 12,193LBs of Electronics
- > 18,603LBs of Household Waste
- Expecting Similar Participation

sedonaaz.gov/waste-collection













**Big Park** 

#### Arizona Water Festival – October 10<sup>th</sup>



#### **Sedona Water Festival**

EFestival to be held on Thursday, October 10th □4<sup>th</sup> and 5<sup>th</sup> Grade Students from Local Schools

- - 4 Schools Registered (8 Classes): West Sedona, Running River, Beaver Creek, and Oak Creek School

□ In Partnership with Arizona Water Company, Project WET, and **Big Park Water Company** 

#### Goals:

COOPERATIVE EXTENSION Arizona Project WET

□ Improve Collaboration with Schools and Watershed Partners □ Provide Activities on Watershed Education, Groundwater, Water Cycle, Technologies

□ Increase Awareness of Water Resources

Enhance and Support Local School Curriculum

#### **CAP Sector 4: Water and Natural Systems**



<u>A</u>



### City of Sedona Sustainability Department www.sedonaaz.gov/sustainability sustainability@sedonaaz.gov

