



At a glance

2018 PLAN AT A GLANCE



The 2018 Sustainable Action Plan for County Operations update provides a practical and holistic framework that deepens Pima County's commitment to sustainability by adopting rigorous GHG reduction targets and expanding our efforts into new focus areas that previous iterations lacked. Moreover, unlike previous five-year versions, this plan will cover seven years in scope, from 2018-2025, to coincide with the GHG reduction deadline of the Paris Agreement.

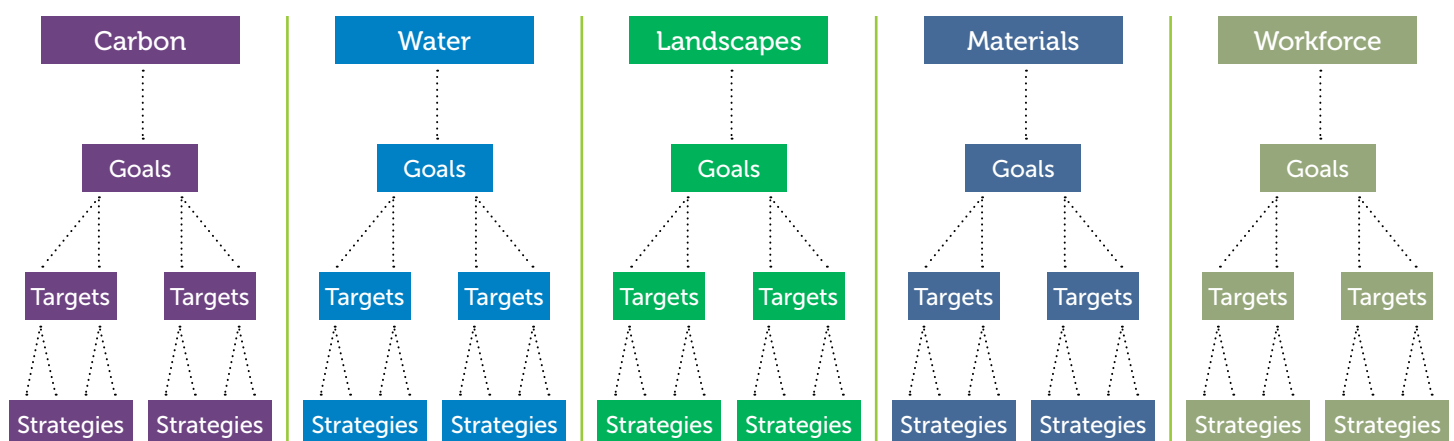
2018 PLAN AT A GLANCE

The 2018 SAPCO update is comprised of the following chapters, each with specific goals, targets and/or monitoring and reporting requirements. These areas were selected based on opportunities to improve resource efficiency along with other associated mitigation and/or adaptation benefits.



Focusing on these five diverse yet interconnected areas creates a multi-faceted approach to satisfying the County's commitments toward sustainable operations and the Paris Agreement goals.

The diagrams below illustrate the major structural components of each chapter.



PLAN ARCHITECTURE

Built on a set of guiding principles that outline the County's sustainability priorities, the SAPCO contains five chapters, each focused on an aspect related to mitigating and/or adapting to climate change. Each chapter is comprised of the following elements:

- **Goal:** A broad overarching objective or desired outcome outlined within a chapter.
- **Core Area:** A category in which resources, labor, and implementation efforts are focused
- **Target:** An often-measurable milestone in pursuing the chapter goal(s), to be achieved within the timeframe of the plan. *A few targets in the plan are dependent upon variable funding programs, in these cases targets are monitored and tracked for progress beyond the baseline, or at the minimum, no net loss of resources.*
- **Recommended Implementation Strategy:** An internally vetted method of achieving a corresponding target, highlighted in the plan.
- **Performance Measure:** Quantitative or qualitative measures used to assess performance relative to a target.
- **Baseline:** A starting point or benchmark used to assess progress toward reaching a target.
- **Implementation Guide:** Outlines core areas, responsible parties, targets, performance measures, and recommended implementation strategies for each corresponding chapter.
- **Lead Department:** The primary department responsible for implementing appropriate sustainability strategies and overseeing the progress toward achieving target(s).
- **Supporting Department:** Departments responsible for supporting the Lead Department in implementing appropriate sustainability strategies and overseeing the progress toward achieving its target(s).

ROLES AND RESPONSIBILITIES

The Sustainable Action Plan is a collaborative and cross-departmental effort that aims to achieve a set of ambitious climate mitigation and adaptation targets for County operations.

The implementation strategies outlined in each chapter are based on new or existing departmental management plans and applicable best practices. Lead departments are responsible for successfully achieving the targets and serve as the primary points of contact for inquiries regarding specific core area(s) and performance. The implementation of specific strategies is at the discretion of the department(s) involved.

The Office of Sustainability and Conservation publishes an annual Sustainability Report Card to chart the County's overall progress toward achieving the carbon reduction and climate adaptation goals adopted by the Board of Supervisors.

Participating Pima County Departments

Department	Acronym/Abbreviation
Attractions and Tourism	A&T
Community Development and Neighborhood Conservation	CDNC
County Administration	CA
Emergency Management	OEM
Environmental Quality	PDEQ
Facilities Management	FMD
Finance and Risk Management	Risk
Fleet Services	Fleet
Natural Resources, Parks and Recreation	NRPR
Procurement	Procurement
Regional Flood Control District	RFCD
Regional Wastewater Reclamation	RWRD
Sustainability, Conservation and Historic Preservation	OSC
Transportation	DOT



COURTS

Carbon

OVERVIEW



Many human activities depend on fossil fuel-based energy, such as traveling, heating and cooling buildings, pumping water and processing waste. These activities result in the release of greenhouse gases (GHGs) – 80% of which are in the form of carbon dioxide (CO₂). These emissions raise global temperatures by trapping solar energy (heat) in the atmosphere, which in turn alter historic weather patterns, precipitation and temperatures.

Every individual, organization and community has a “carbon footprint” –the sum of greenhouse gas emitted through the production or consumption of materials, in transportation and through the generation of waste. Providing services to the community is often energy intensive and can produce significant greenhouse gas emissions. Pima County recognizes the importance of reducing the carbon footprint generated by its operations and is committed to complying with the targets established by the Paris Climate Agreement.

CHAPTER 1: Carbon

GOALS AND CORE AREAS

GOALS

Implement policies and programs that reduce carbon emissions from County operations in accordance with the Paris Climate Agreement.

CORE AREAS

We aim to fulfill these objectives by focusing on the following core areas:

Buildings, facilities, and wastewater treatment

Includes all County operated facilities

County vehicle fleet

Includes all motor vehicles operated by the County

Solid waste

Includes all landfill waste generated by County operations

BENEFITS OF IMPLEMENTATION



**Reduces GHG
emissions**



**Improves air
quality**



**Saves
money**



**Decreases
landfill waste**



**Conserves
energy**

IMPLEMENTATION GUIDE

CORE AREA	TARGET	PERFORMANCE MEASURE	RECOMMENDED IMPLEMENTATION STRATEGIES
Buildings, facilities, and wastewater treatment Lead departments: FMD; RWRD	Reduce carbon emissions from county facilities (including RWRD): 50%  50% REDUCTION	Mt CO ₂ e	<ol style="list-style-type: none"> 1. Improve building efficiency 2. Expand renewable energy capacity 3. Include beneficial use of biogas 4. Improve employee energy conservation practices
County vehicle fleet Lead department: Fleet Services Supporting lead department: PDEQ	Reduce carbon emissions from County fleet: 10% in non-electric vehicles  10% REDUCTION Replace up to 120 gas sedan vehicles with fully-electric vehicles  120 ELECTRIC CARS	Mt CO ₂ e Number of fully-electric vehicles	<ol style="list-style-type: none"> 1. Replace gasoline vehicles with electric and hybrid vehicles 2. Reduce idling with surcharges for excessive idling 3. Promote downsizing to compact trucks, SUVs, smaller sedans 4. Surcharge for 4-wheel drive vehicles 5. Implement recognition or incentive program(s) for employees who use alternative transportation
Solid waste Lead department: FMD Supporting lead department: PDEQ	Reduce carbon emissions from solid waste generation: 10%  10% REDUCTION	Mt CO ₂ e	<ol style="list-style-type: none"> 1. Increase recycling of office and industrial materials 2. Decrease landfill waste (volume/weight) 3. Buy reusable/ refillable items 4. Implement employee education program



Water

OVERVIEW



Water is one of our most vital resources. It is essential to nearly every facet of life, from food cultivation to the generation of electricity. Yet, in the Sonoran Desert, it is also one of our most limited assets.

Under current and future climate scenarios, we will likely face growing challenges in meeting water demands that support agriculture, irrigation, urban expansion, and industrial and mining uses. The community at-large has made great strides in reducing the use of potable water. However, continuing drought, changing precipitation patterns, reduced snowpack and higher temperatures mean additional strategies will be needed.

Pima County is committed to continuing its efforts to reduce the use of potable water in its facilities. We will also continue to use a portion of our reclaimed water (treated effluent) to replenish groundwater supplies for future use.

CHAPTER 2: Water

GOALS AND CORE AREAS

GOALS

Implement policies and programs that reduce the intensity of potable water use in County operations and continue allocating reclaimed water for groundwater recharge.

CORE AREAS

We aim to fulfill these objectives by focusing on the following core areas:

Facility water use

Includes all County operated facilities

Groundwater replenishment

Includes County allocations of reclaimed water for groundwater recharge

BENEFITS OF IMPLEMENTATION



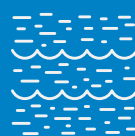
**Conserves
water resources**



**Saves
money**




**Conserves
energy**



**Restores
aquifer**

IMPLEMENTATION GUIDE

CORE AREA	TARGET	PERFORMANCE MEASURE	RECOMMENDED IMPLEMENTATION STRATEGIES
Water use in facilities Lead department: FMD	Reduce potable water use across all county facilities: 15% 	Gallons of water/ft²	<ol style="list-style-type: none"> 1. Replace old fixtures with more efficient ones 2. Reduce use of open cooling systems during daylight hours 3. Replace aging water cooled chillers with air-cooled chillers 4. Sub-meter water systems during retrofits 5. Use grey water systems to decrease reliance on potable water for irrigation 6. Use rainwater collection tanks and passive stormwater harvesting to provide irrigation 7. Implement employee education and outreach programs
Groundwater replenishment Lead departments: RWRD, RFCD	Monitor the use of reclaimed water for groundwater recharge	Acre feet of County's allocation of reclaimed water used for groundwater recharge	<ol style="list-style-type: none"> 1. Continue reclaimed water recharge at existing sites (the Lower Santa Cruz Managed Recharge Project (LSCMRP) and the High Plains Constructed Recharge Project) 2. Continue to inventory uses of renewable water 3. Continue education and outreach efforts on water conservation and stormwater harvesting

