



Sound Science. Creative Solutions.®



SUSTAINABILITY PROGRAM HIGHLIGHTS - APPENDIX

2016



2016 SUSTAINABLITY PLAN GOALS

Goal 1: Reduce Greenhouse Gas Emissions

Goal 2: Reduce Our Impacts on Natural Resources

Goal 3: Environmental Stewardship

Goal 4: Promote Sustainability and Environmental Efforts

Goal 1: REDUCE GREENHOUSE GAS EMISSIONS



SWCA is committed to reducing our greenhouse gas emissions through the following actions:

· Reduce energy consumption in all offices

 Reduce emissions from company vehicles and promote alternative modes of transportation including carpooling and public transportation

INVENTORY METHODOLOGY

To calculate SWCA's GHG emissions, an inventory was conducted in general accordance with the standards outlined in The Climate Registry's General Reporting Protocol, an internationally recognized GHG reporting protocol developed for organizations in North America.

Sheridan

Sheridan

Sheridan

Sheridan

Sheridan

Sheridan

San Luis
Obiopo

Freeno

Vernal

Freeno

Las
Vegas

Freeno

Vegas

Freeno

Vegas

Freeno

Carlebad

Arlington

Austin

Rouge

San Antonio

Austin

Rouge

San Antonio

Austin

Rouge

San Antonio

Austin

Rouge

San Antonio

San Antonio

Austin

Rouge

San Antonio

Baton

Rouge

Houston

All SWCA offices were included in the 2016 emissions inventory. SWCA offices consist primarily of leased office space in shared facilities. In some cases

accurate data were not available, and estimates were used based on historical data and/or company averages. Impacts from home-based employees were not accounted for in this inventory because personal residences are not under the company's operational control.

The following GHG emissions sources were included in this inventory:

- · Electricity use in offices
- · Fuel use for company-owned highway fleet vehicles
- · Fuel use for company-owned marine craft
- · Fuel use for employee-owned vehicles
- · Fuel use for business air travel

- · Natural gas use in offices
- · Fuel use for company-owned ATVs
- · Fuel use for rental vehicles
- Fuel use for employee commuting
- · GHG emissions from SWCA landfill waste

2016 GREENHOUSE GAS INVENTORY RESULTS

SWCA's 2016 GHG inventory total for all offices was an estimated 4,363 metric tons of carbon dioxide equivalent (Mt CO2e). The GHG inventory was divided into five general emissions categories (Figure 1). The top emissions category was combined project and business travel (air travel, fleet vehicles, and rental cars), which made up 40 percent of our total emissions. Office energy use (electricity and natural gas) was our second-largest emissions category, accounting for 29 percent of our GHG emissions.

2016 GHG EMISSIONS BY SCOPE AND SOURCE

SWCA's GHG emissions can be further broken down and presented by both scope* and source as shown in Table 1. SWCA's largest single emissions source (26%) was rental vehicles used for project work, follow by purchased electricity in our offices (25%) and employee commuting (19%). Figure 2 shows SWCA's companywide emissions by source.

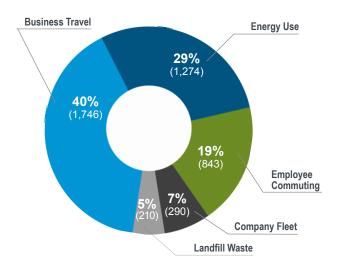


Figure 1. GHG Emissions By Category (Mt CO,e)

Table 1. SWCA's 2016 Company-wide Emissions by Scope and Source

EMISSIONS BY SCOPE*	Mt CO ₂ e
SCOPE 1: DIRECT EMISSIONS	
Fuel use for company-owned highway fleet vehicles	289
Fuel use for other company-owned ATVs	1
SCOPE 2: INDIRECT EMISSIONS	
Purchased electricity use	1,082
Natural gas use in leased office spaces in shared buildings	192
SCOPE 3: OTHER INDIRECT EMISSIONS	
Fuel use for rental vehicles	1,119
Fuel use for employee-owned vehicles	323
Fuel use for employee commuting	843
Fuel use for business air travel	304
Emissions from SWCA landfill waste	210
TOTAL 2016 EMISSIONS	4,363

^{*}The Climate Registry GHG protocol requires that GHG emissions be reported by scope. Scope 1 emissions are directly owned and controlled by SWCA (i.e., company vehicles, etc.). Scope 2 emissions are indirect emissions owned by another entity but largely controlled by SWCA (i.e., electric use, etc.). Scope 3 emissions are neither owned nor managed by SWCA but result from company activity (i.e., airline travel, rental cars, employee commuting, etc.).

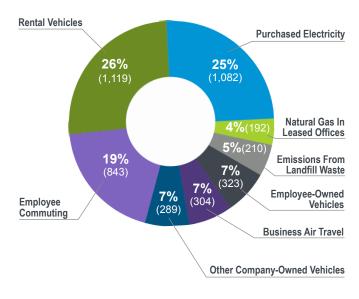


Figure 2. SWCA's 2016 Company-wide GHG Emissions Inventory by Source (Mt CO₂e)

Table 2. SWCA 2015-2016 Inventory Comparison Summary

	2016 Mt CO2e	2015 Mt CO2e	Change	%
Scope 1:				
Natural gas for company-controlled heating equipment	0	0	0	N/A
Coolant replacement	0	0	0	N/A
Fuel use for company-owned fleet vehicles	289	293	-4	-1%
Fuel use for other company-owned vehicles	1	8	-7	-92%
Scope 2:				
Purchased electricity	1,082	903	179	20%
Natural gas use - leased office space	192	279	-87	-31%
Scope 3:				
Fuel use for rental vehicles	1,119	583	536	92%
Fuel use for employee-owned vehicles	323	406	-83	-20%
Fuel use for employee commuting	843	746	97	13%
Fuel use for business air travel	304	324	-20	-6%
Emissions from landfill waste	210	186	24	13%
Total Emissions	4,363	3,728	635	17%

Goal 2: REDUCE IMPACTS ON NATURAL RESOURCES



SWCA focuses on the following actions to reduce landfill waste and other impacts of our actions on natural resources:

- Reduce paper consumption
- Recycle in all offices
- Practice green purchasing
- Practice water conservation

2016 WASTE AND RECYCLING METHODOLOGY AND RESULTS

SWCA collected landfill waste and recycling data from each office. Across all offices, SWCA recycled an estimated 118 tons of material.

SWCA's recycling and reuse practices reduced our company annual emissions by approximately 292 Mt CO2e, which is equivalent to taking more than 756 U.S.-average cars off the road. To further our conservation goals, 90% of SWCA offices recycle and more than 92% reported ongoing paper conservation and reuse efforts.



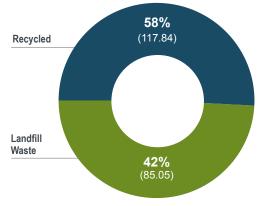
Offices that practiced energy conservation



Offices that recycled



Offices that used recycled paper



SWCA 2016 Landfill vs. Recycled Waste

Goal 3: ENVIRONMENTAL STEWARDSHIP



SWCA encourages environmental stewardship through our Gives Back program. SWCA Gives Back is a coordinated community service program that grew out of an array of volunteer efforts and charitable activities in our offices. Local office champions and Sustainability Working Group representatives encourage employees to participate in activities that improve the environment of the communities where we work and live. They also work to identify environmental organizations and causes that we can support collectively as a company.

In 2016, SWCA participated in 11 events through the SWCA Gives Back program. The events and organizations who benefited are as follows:

- 1. Galveston Bay Estuarine Preservation Fundraiser/Bike Ride Galveston Bay Foundation
- 2. 22nd Annual Basura Bash Annual San Antonio Waterways Clean Up Basura Bash Organization / San Antonio River Foundation
- 3. Friends of Oak Woodlands Habitat Clean-Up San Francisco Parks Alliance
- 4. Source To Sea Annual Clean-Up Connecticut River Watershed Council
- 5. Creek Week Clean-Up Fountain Creek Watershed Flood Control And Greenway District
- 6. Wild Animal Sanctuary Recycling/Donation Event Wild Animal Sanctuary
- 7. Wasatch Canyons Environmental Stewardship Fundraiser Save Our Canyons
- 8. NatureFest 2016 Jesse H. Jones and Nature Reserve
- 9. National Park Foundation \$5K Corporate Donation National Park Foundation
- 10. Environmental Stewardship Employee Donations National Park Foundation
- 11. Environmental Stewardship Employee Donations Nature Conservancy



Number of environmental stewardship events in which SWCA employees participated

Goal 4: PROMOTE SUSTAINABILITY AND ENVIRONMENTAL EFFORTS



SUSTAINABILITY WORKING GROUP

Our Sustainability Working Group (SWG) is at the heart of our sustainability efforts, helping to track our impacts and promote sustainability in all that we do.

The SWG is made up of employee representatives from SWCA offices tasked with helping us achieve our sustainability vision. The representatives champion local sustainability actions for the greater good of the company, as well as for our clients and communities. Collectively, the team plays a crucial role in SWCA's sustainability program and acts as a major driving force behind its execution.

In addition to recycling programs, ongoing activities within our offices have included; battery recycling and composting programs, sourcing goods from environmentally conscious vendors, and providing incentives and competitions to encourage alternative modes of transportation to and from work.



VISION AND COMMITMENT

Sustainability Vision

SWCA believes that achieving a sustainable balance between humanity's social, economic, and environmental needs is essential in providing a healthy planet for future generations. We believe our sustainability actions will create a stronger company and will help ensure a prosperous future for our employees, clients, and the communities we live in. We will be innovative and proactive leaders in sustainable business practices, and we will promote such practices by serving as a positive example for others.

Our Commitment

SWCA is committed to sustainability, as demonstrated by our work helping others implement sustainability practices and our dedication to good corporate citizenship. This is important for our staff, our communities, and our world, and our commitment includes creating a clean and sustainable environment for future generations.

ABOUT SWCA

For more than three decades, SWCA has provided comprehensive environmental planning, regulatory compliance, natural and cultural resource management, sustainability and air quality services to businesses and government clients across the United States. We are an employee-owned firm of scientists, planners, and technical specialists. We combine scientific expertise with sound technical skills to provide solutions to a full spectrum of environmental projects.