



SUSTAINABILITY
PROGRAM HIGHLIGHTS - APPENDIX

2017

2017 SUSTAINABILITY PLAN GOALS

Goal 1: Reduce Greenhouse Gas (GHG) 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 GHG emissions through the following actions:

- *Reduce energy consumption in all offices*
- *Reduce emissions from company vehicles and promote alternative modes of transportation, including carpools 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.

All SWCA offices were included in the 2017 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 all terrain vehicles (ATVs)*
- *Fuel use for rental vehicles*
- *Fuel use for employee commuting*
- *GHG emissions from SWCA landfill waste*

2017 GREENHOUSE GAS INVENTORY RESULTS

SWCA's 2017 GHG inventory total for all offices was an estimated 4,020 metric tons of carbon dioxide equivalent (MtCO₂e). The GHG inventory was divided into five general emissions categories (Figure 1). The top emissions category was business travel using rental vehicles, which made up 38% of our total emissions. Employee commuting fuel use was our second-largest emissions category, accounting for 17% of our GHG emissions.

Table 1. SWCA's 2017 Company-Wide Emissions by Scope and Source

| EMISSIONS BY SCOPE* | MtCO ₂ e |
|---|---------------------|
| SCOPE 1: DIRECT EMISSIONS | |
| Fuel use for company-owned highway fleet vehicles | 283 |
| Fuel use for other company-owned ATVs | 6 |
| SCOPE 2: INDIRECT EMISSIONS | |
| Purchased electricity use | 602 |
| Natural gas use in leased office spaces in shared buildings | 53 |
| SCOPE 3: OTHER INDIRECT EMISSIONS | |
| Fuel use for rental vehicles | 1,533 |
| Fuel use for employee-owned vehicles | 269 |
| Fuel use for employee commuting | 689 |
| Fuel use for business air travel | 266 |
| Emissions from SWCA landfill waste | 318 |
| TOTAL 2017 EMISSIONS | 4,020 |

*The Climate Registry General Reporting 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.).

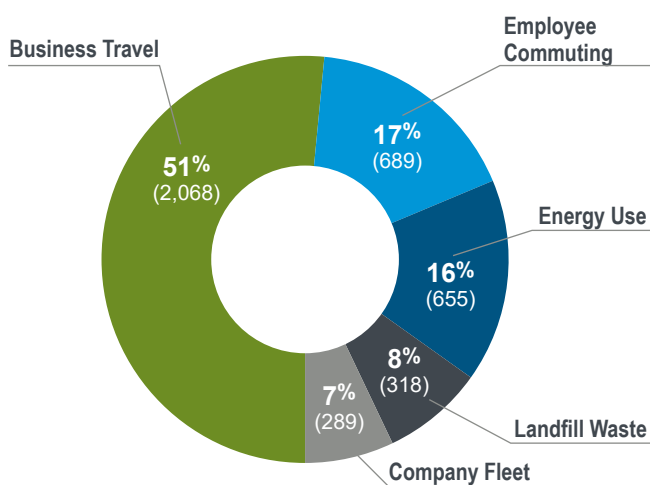


Figure 1. GHG Emissions By Category (MtCO₂e)

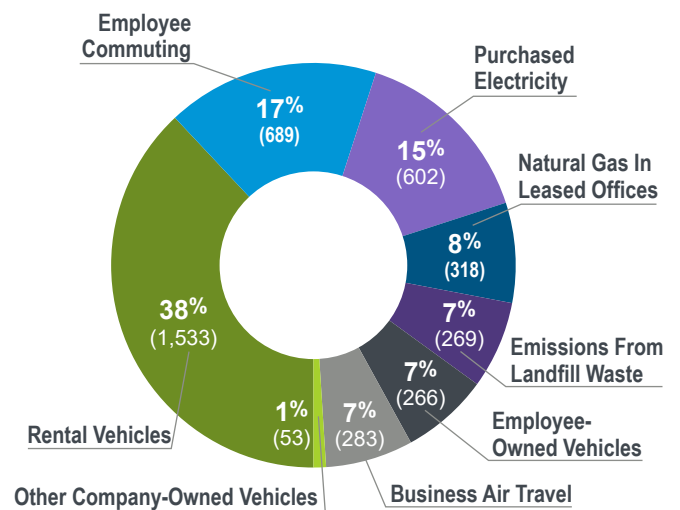


Figure 2. SWCA's 2017 Company-wide GHG Emissions Inventory by Source (MtCO₂e)

Table 2. SWCA 2016-2017 Inventory Comparison Summary

| | 2017 MtCO ₂ E | 2016 MtCO ₂ E | 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 | 283 | 289 | -6 | -2% |
| Fuel use for other company-owned vehicles | 6 | 1 | 5 | -496% |
| SCOPE 2: | | | | |
| Purchased electricity | 602 | 1,082 | -480 | -44% |
| Natural gas use - leased office space | 53 | 192 | -139 | -72% |
| SCOPE 3: | | | | |
| Fuel use for rental vehicles | 1,533 | 1,119 | 414 | 37% |
| Fuel use for employee-owned vehicles | 269 | 323 | -54 | -17% |
| Fuel use for employee commuting | 689 | 843 | -154 | -18% |
| Fuel use for business air travel | 266 | 304 | -38 | -12% |
| Emissions from landfill waste | 319 | 210 | 109 | 52% |
| TOTAL EMISSIONS | 4,020 | 4,363 | -343 | -8% |

Goal 2: REDUCE OUR 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

2017 WASTE AND RECYCLING METHODOLOGY AND RESULTS

SWCA collected landfill waste and recycling data from each office. Across all offices, SWCA recycled an estimated 162 tons of material, a 37% increase since 2016.

SWCA's recycling and reuse practices reduced our company's annual emissions by approximately 292 MtCO₂e, which is equivalent to taking more than 859 U.S. average-sized cars off the road. To further our conservation goals, 94% of SWCA offices recycle, and more than 88% reported ongoing paper conservation and reuse efforts.



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 (SWG) representatives encourage employees to participate in activities that improve the environment of the communities in which we work and live. They also work to identify environmental organizations and causes that we can support collectively as a company.

In 2017, SWCA participated in 16 stewardship events through the SWCA Gives Back program. The events and organizations that benefited are as follows:

1. **My Park Day Spring Event** – Austin Parks Foundation
2. **Source To Sea Annual Clean-Up** – Connecticut River Watershed Council
3. **Valley Bird Festival Conservation Event** – Hampshire Bird Club
4. **Stream Restoration Clean-Up Event** – Hui o Ko'olaupoko
5. **Sweet Springs Nature Preserve Survey Event** – Morro Coast Audubon Society
6. **Leon Creek Greenway Clean-Up** – San Antonio River Foundation
7. **Wasatch Canyons Environmental Stewardship Fundraiser** – Save Our Canyons
8. **Environmental Stewardship Recycling Event** – School & Community Assistance for Recycling and Composting Education (SCARCE)
9. **Truckee River Day Environmental Stewardship Event** – Truckee River Watershed Council
10. **Wildlife and Environmental Stewardship Education Event** – YMCA of South Pasadena/San Marino
11. **Wildlife and Environmental Stewardship Education Event** – Southern California Edison
12. **Science in the Park Environmental Stewardship Event** – Cal State Fullerton/OC Parks/John D Cooper Center
13. **Wild Animal Sanctuary Recycling/Donation Event** – Wild Animal Sanctuary
14. **Environmental Stewardship Employee Donations** – CarbonFund
15. **Environmental Stewardship Employee Donations** – National Park Foundation
16. **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 is at the heart of our sustainability efforts. This group helps track our impacts and promote sustainability in all we do.

The SWG is made up of an employee representative from each SWCA office 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 to providing a healthy planet for future generations. We believe that our sustainability actions will create a stronger company and will help ensure a prosperous future for our employees, clients, and the communities in which we live. 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. Our commitment includes creating a clean, 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, and 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.



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