

















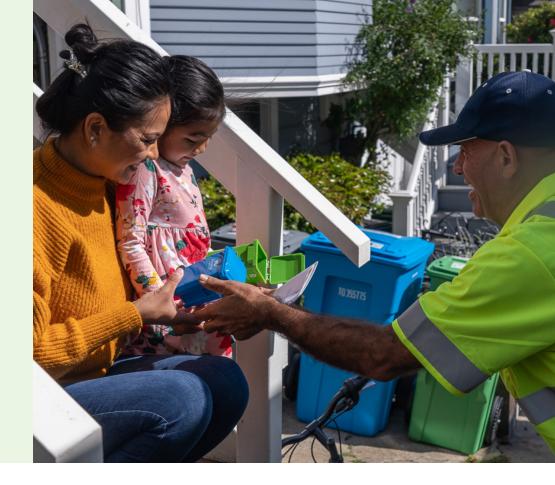


ABOUT THIS REPORT

At Recology, sustainability means supporting our employee-owners, engaging our local communities, and protecting our natural environment.

This 2022 Sustainability Update offers a glimpse into our operations and activities, including progress we made in 2021 and the vision we hold for our future.

For a comprehensive review of our sustainability activities, including previous reports, visit Sustainability.Recology.com.



CEO STATEMENT		1
WHO WE ARE		2
RESOURCE RECOVERY		3
SUSTAINABLE OPERATIONS		5
PEOPLE AND COMMUNITY		7
APPENDIX	1	1 (

NAVIGATING INTERACTIVE COMPONENTS

This report contains links to supporting resources that offer unique insights into Recology partnerships, programs, and resource recovery operations. Keep an eye out for this button to see Recology in action!



LEARN MORE

CEO Statement

2021 was a year of transformation and revitalization for Recology.

As our communities began to recover from the impacts of 2020, Recology embraced the opportunity to strengthen the foundations of our culture and our operations. We welcomed new executive and board leaders who bring fresh perspectives, a renewed focus on company direction, and reinforced commitments to employee ownership and operational excellence. We bolstered our governance and enterprise risk management protocols, and continued to prioritize health, wellness, and safety throughout our operations.





We also made strides to foster a vibrant, equitable, and inclusive workplace. We enhanced our Diversity, Equity & Inclusion initiatives, and expanded employee development and networking opportunities. We also built new channels for feedback to hear and learn from our diverse employee-owner community.

In 2021, we commemorated 25 years of composting in San Francisco, where we implemented the nation's first curbside organics collection program. We continue to push the boundaries of resource recovery, investing millions in our composting facilities in Oregon and California, positioning ourselves to help jurisdictions meet the requirements of progressive organics recovery legislation.

We are also strengthening our commitment to address climate change. In 2021, the recycling and composting activities of Recology and our partners avoided 9 times more greenhouse gases than were generated by our operations.

We continue to transition away from conventional fossil fuels, powering nearly 83% of our fleet with renewable or alternative fuels in 2021.

Finally, as part of a broader commitment to sustainability and transparency, this year we will establish an emission-reduction target and work to align with Sustainability Accounting Standards Board (SASB) reporting standards for our next report publication in 2023.

When I look at 2022 and beyond, I see opportunity.

Opportunity to reinvigorate employeeowners' sense of belonging. Opportunity to further invest in resource recovery, to keep materials out of landfills, and to support the circular economy. Opportunity to mitigate the effects of climate change through composting, recycling, and renewable energy. Most of all, I see the opportunity to continue providing value to our communities as we pursue a world without waste.



Salvatore M. Coniglio Chief Executive Officer

Who We Are

Recology sees a world without waste, a vision carried out by a dynamic workforce of over 3,700 employee-owners who make Recology the largest 100% employee-owned company in the resource recovery industry.

Our operations provide comprehensive environmental services to over one million households and businesses in 137 communities in California, Oregon, and Washington. Together with our valued customers, our materials management infrastructure played an essential role in the recovery of nearly 2.7 billion pounds of materials in 2021.



•Seattle

Warrenton Astoria North Plains • • Portland

•McMinnville
•Aumsville

Ashland

Crescent City

Eureka ◆Arcata ◆ Samoa ◆ Fortuna ◆ Oroville

> Yuba City • Marysville Auburn • Wheatland

Petaluma Dixon Davis
Santa Rosa Vacaville
Novato Vallejo
San Francisco
Pacifica
San Carlos
San Jose
Mountain View
Oixon
Vacaville
Mariposa
Vernalis
Vernalis

San Martin

Lamont



EMPLOYEE-OWNERS

137 COMMUNITIES SERVED

26 To Ta Ta



MATERIAL RECOVERY FACILITIES



Resource Recovery

By leveraging innovative technology and integrated materials management infrastructure, Recology is able to recover more, landfill less, and bolster our leadership in the industry.

In partnership with industry peers, our collection fleets and network of recycling, composting, and transfer operations empowered us to collect, process, and recover more than 1.3 million tons of recyclable and compostable materials in 2021.

GHG EMISSION AVOIDANCE

Recovering materials through recycling and composting creates numerous environmental and economic benefits. In addition to conserving natural resources and supporting global supply chains and food systems, recycling and composting help mitigate the production of greenhouse gases (GHGs) by minimizing methane production in landfills and reducing the energy needed to extract and refine virgin resources.

In 2021, the recycling and composting activities of Recology and our partners avoided 1.6 million MTCO2e of greenhouse gases¹

more GHG emissions than were generated by our operations²



Organics



Cardboard 145,339 TONS



Paper



Glass



Crushed Rock



Wood
59,411 TONS



Metals 50,351 TONS



Plastics



Tires



Electronics



Mattresses



Carpet



Recology Compost: 25 Years of Climate Leadership

As we continue to expand resource recovery solutions in our communities, Recology remains committed to diverting organics from landfills, supporting healthy soil ecosystems, and addressing our changing climate. Since opening our first organics processing facility nearly three decades ago, Recology has been an industry pioneer in commercial composting. In 2021, our eight composting facilities transformed 1.5 billion pounds of yard trimmings, food scraps, and agricultural wastes into nutrient-rich compost for local farms, vineyards, and nurseries.

ADVANCING THE LIMITS OF ORGANICS PROCESSING

This past year, Recology completed the next phase of a \$12 million upgrade at our Blossom Valley Organics compost facility in Vernalis, CA. Already processing more than 320,000 tons per year—including curbside organics from San Francisco—the new aerated static pile (ASP) installation and screening equipment improvements allow the facility to increase throughput, reduce odors, and produce a cleaner finished product.

These upgrades are in addition to other major investments in compost infrastructure Recology completed in 2020, including opening a new

> facility (Ostrom Organics) and installing ASP at two Oregon facilities.

COMPOST'S NEXT FRONTIER: THE CLIMATE CRISIS

Our efforts to bring composting to more communities come at a critical time. California's Senate Bill 1383, which sets ambitious targets for organic waste diversion from landfills, went into effect in early 2022 and is the latest legislative action to combat climate change through organic waste recovery.

Together with SB 1383, Recology is helping advance a growing awareness that widespread composting can help combat drought and the climate crisis. Recology is proud to be a premier service provider for commercial organic waste recovery, and we are poised to provide even greater solutions to satisfy our communities' progressive waste diversion and climate targets.



LEARN MORE

RECOLOGY IN THE NEWS





Tos Angeles Times Business San Francisco Chronicle Chronicle BIOCYCLE Examiner







As we celebrate 25 years of composting in San Francisco, learn how Recology compost is helping communities divert organics from landfills, save water, and address climate change.

READ MORE

Sustainable Operations

As Recology works toward a world without waste, we are determined to mitigate the negative effects our business activities have on the natural environment.

From how we fuel our collection fleet and power our facilities, to how we manage methane from our landfills, Recology is guided by a strong sustainability ethos. Our efforts to address climate change include prioritizing resource efficiency, revalorizing landfill gas, and migrating to renewable and low-carbon energy sources.



83%

of the Recology fleet is powered by renewable or alternative fuels



In 2019, Recology announced an ambitious goal to power 90% of our fleet with renewable or alternative energy sources by 2022. As of 2021, nearly 83% of our fleet has met that mark, an improvement from 80% in 2020.

Our adoption of Renewable Diesel (R99) and Renewable Natural Gas (RNG) has led our transition away from conventional fossil fuels. Since 2019, we have reduced our use of conventional diesel by nearly 43%.

Meanwhile, R99 now accounts for over half of our fuel purchases, and RNG now accounts for over 80% of the fuel for our natural gas-based fleet.

RENEWABLE RECOVERY

Beyond our fleets, Recology remains committed to harnessing renewable and carbon-free energy to power our materials processing infrastructure. Through ongoing partnerships with Community Choice Energy (CCE) Programs, the Recology network of recycling, compost, and transfer station facilities draws more than 82% of its electricity—over 23,000 MWh—from renewable or carbon-free energy sources like solar, wind, and hydroelectric.



of electricity
used at Recology

facilities is generated from renewable or carbon-free sources



43%

of conventional diesel since 2019

Our reduced reliance on conventional fossil fuels resulted in a

120%

reduction in fleet emissions since 2019, equaling 7,800 MTCO₂e of greenhouse gases avoided³ Emission reductions achieved by removing over

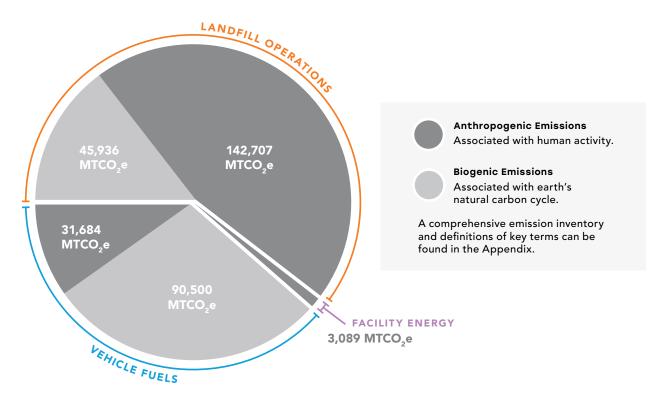
1,700,00

passenger vehicles from US roadways for one year.4

GREENHOUSE GAS EMISSION INVENTORY³

Recology generates GHG emissions from three primary areas: landfill operations, vehicle fuels, and facility energy.

We closely monitor our emission sources and actively pursue sustainability initiatives—such as our adoption of renewable and low-carbon vehicle fuels—that improve our overall emission performance.



BRINGING R99 TO THE PNW

Recology is driving demand for R99 in the Pacific Northwest. Our operations in Seattle, WA and Ashland, McMinnville, and Portland, OR will migrate approximately half a million gallons of diesel fuel to R99 in 2022 and help broaden availability of renewable transport fuels in the region.



LANDFILL GAS MANAGEMENT

As a landfill operator, Recology is responsible for managing and revalorizing landfill methane, a natural byproduct of waste degradation in landfills and a potent greenhouse gas. When harnessed properly, this gas can be converted to usable electricity and vehicle fuel.

In partnership with renewable energy providers, Recology actively converts landfill gas to electricity at both of our owned landfills. Excess gas is channeled into flaring systems that combust the methane, thereby helping mitigate the landfills' adverse impacts on air quality.

In 2021, landfill gas engines at Recology-owned landfills produced

41,500+

Megawatt-hours of electricity⁵

ENOUGH TO POWER

3₁800 pr

People and Community

EMPLOYEE OWNERSHIP

Recology employee-owners are at the core of our mission and vision. Our unique ownership model fosters a workplace culture that empowers a growth mindset and a collaborative spirit to thrive with pride.

The Recology Employee Stock Ownership Plan (ESOP) maintains ownership in the hands of our employees, not external shareholders. Through the ESOP, employees receive a supplemental retirement plan and share in the company's success during tenure and beyond.



Recology is committed to advancing a workforce that reflects the diversity of the communities we serve. In 2021, 75% of company-wide promotions went to employee-owners who identify as women and/or members of an ethnic minority group. In 2021, 65% of Recology employees identified with an ethnic minority, along with 43% of Recology board members



Women at Recology

18%
COMPANY-WIDE

/ 30% managemen BOARD OF DIRECTORS

Workforce Expertise

Development



0-2 Years 3-5 Years 6-10 Years

Years of Service

WORKPLACE CULTURE

Recology creates opportunities for employee-owners and fosters an environment of inclusivity, collaboration, and accountability.

In 2021, Recology hired our first Diversity, Equity, & Inclusion (DEI) Manager, and through our Learning and Development department we continue to cultivate unique opportunities that bolster employee collaboration and professional development.



EMPLOYEE NETWORK GROUPS



LISTENING SESSIONS AND TOWN HALLS

1071

PROFESSIONAL DEVELOPMENT TRAININGS



200

MENTORSHIP PROGRAM
PARTICIPANTS

SAFETY PERFORMANCE

Workplace safety is a key part of our culture. We continue to advance our safety culture campaign, including expanding our safety scorecard and leveraging in-field software that allows Recology supervisors to quickly address and respond to safety and wellness issues.



Since 2015, Recology has seen a 49% reduction in Lost Time
Incident Rate (LTIR) and a 14% reduction in Total Recordable Incident
Rate (TRIR)—both key industry metrics of safety performance.



Awards and Recognition

Recology was named "2021 Company of the Year" by the National ESOP Association, following similar recognition from the California/Western States Chapter of the ESOP Association in 2020.

In addition, two Recology drivers received prestigious awards from the National Waste and Recycling Association (NWRA). These awards recognize drivers across the country whose contributions and exceptional safety performance records help elevate the industry.



LAWRENCE JACKSON III 2021 Regional Industrial Driver of the Year



AARON MEIER
2021 Regional Residential
Driver of the Year

Community Outreach and Stewardship

Recology continues to support our communities and educate our customers on sustainable practices as we collectively adapt to—and ultimately emerge from—the COVID-19 pandemic.

1,025

IN-PERSON PRESENTATIONS
AND TRAININGS

418

VIRTUAL PRESENTATIONS
AND TRAININGS

3,643

CUSTOMER CONSULTATIONS

158

IN-PERSON AND VIRTUAL FACILITY TOURS

2,879

ADULT AND YOUTH TOUR
ATTENDEES



REDUCING RECYCLING CONTAMINATION IN SEATAC

Recology and the City of Seatac implemented the Slotted Lid Program to prevent recycling contamination. Combined with door-to-door outreach, the program has been overwhelmingly successful and plans for expansion are underway.



BRINGING ART TO LIFE IN SONOMA COUNTY

Recology partnered with ArtStart Santa Rosa, a youth art education program, to create a 25-foot-tall mural of native flowers, each hand-painted by volunteers and Recology employee-owners.



The GLEAN Program saw a record number of artist applicants in 2021, and those selected created over 50 works of art for two esteemed exhibitions.



SAN FRANCISCO AIR PROGRAM ENGAGES ALUMNI

In its 31st year, the SF Artist In Residence (AIR) program engaged former artists with virtual programming, held its first in-person exhibition in two years, and collaborated on an exhibition at the Bedford Gallery that hosted work from nearly 50 AIR alumni.

REPURPOSING CHRISTMAS TREES IN BUTTE COUNTY

Partnering with Chico Boy
Scout Troop 2 and the
California Department of Water
Resources, Recology collected over 1,100
Christmas trees for use as fish habitat
structures in Lake Oroville.



Supporting the City of American Canyon's new water recycling initiative, Recology repurposed nearly 200 plastic food grade drums, playing a key role

iums, playing a key role
in the city's delivery
of over 1 million
gallons of nonpotable water
to residents.



BAY AREA BLOOD DRIVE

Recology hosted a blood drive in partnership with Vitalant, bringing in over 75 donors whose critical donations will save up to 243 lives.



COMMUNITY GARDENING IN SAN BENITO

Recology partnered with Growing Hearts, a local non-profit organization aimed at integrating adults with special needs into the local community through hands-on experience with gardening and landscape maintenance.



RESOURCES AND METHODOLOGIES

- Emission avoidance values for organics and recycling activity were calculated using a combination of the California Air Resources Board (CARB) Recycling Emission Reduction Factor (RERF, 2011) and Composting Emission Reduction Factor (CERF, 2017) tools, as well as the US EPA's Waste Reduction Model (WARM, 2020).
- 2. The '9x' figure was calculated by comparing the sum of emissions avoided through Recology resource recovery activity (per the tools referenced above) to the sum of company-wide Scope 1 and Scope 2 emissions.
- 3. Emission figures were calculated using a combination of The Climate Registry (TCR) database tools, utility-specific emission factors, Local Government Operations Protocol (LGOP) equations 9.1, 6.2, 8.7, 8.8, and California Air Resource Board's (CARB) implementation of IPCC's First Order Decay Model.
- 4. Emission equivalencies were calculated using the US EPA's online Greenhouse Gas Equivalencies Calculator.
- Landfill gas volume, flaring activity, and electricity generation data were provided by vendors Golder Associates, G2, Aptim, SCS Field Services, and American Solar Corporation.

DEFINITIONS

Greenhouse Gases (GHGs): Any gases that absorb and trap infrared radiation (e.g. energy from the sun) in the atmosphere, leading to increased global temperatures and disruptions to natural climate systems. Many GHGs are caused by human activity and include carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O). *Source: Overview of Greenhouse Gases—US EPA*

Metric Tons of Carbon Dioxide Equivalent (MTCO₂e): A unit of measure that standardizes the climatic impacts of various greenhouse gases by accounting for each gas' heat-trapping potential and persistence in the atmosphere compared to carbon dioxide (CO₂). Source: Overview of Greenhouse Gases—US EPA

Anthropogenic Emissions: Those associated with human activity, commonly generated through the burning of fossil fuels or other human activities (e.g. methane produced in landfills). Anthropogenic emissions result in a net increase in atmospheric greenhouse gases and thus have an adverse effect on climate change. Source: Report on the Environment: Greenhouse Gases—US EPA

Biogenic Emissions: Those associated with the earth's natural carbon cycle, commonly generated from the decomposition of organic materials and combustion of biomass-derived fuels (e.g. biodiesel, renewable diesel, and ethanol). As biogenic sources do not introduce fossil-derived carbon into the atmosphere, they do not result in a net increase in atmospheric carbon and therefore have fewer adverse climatic impacts than anthropogenic emissions. *Source: Science and Climate Definitions—UC Davis*

2021 EMISSION INVENTORY

Our voluntary emission inventory includes the three internationally recognized GHGs generated from company business activity: CO_a , CH_{a} , and N_2O . Recology does not participate in activities that generate SF_a s, HFCs and PFCs above de minimis levels, so these gases are not quantified.

Scope	Description	Anthropogenic (MTCO₂e)	Biogenic (MTCO₂e)
1	Direct Emissions from Stationary Combustion Source: Fossil portion of fuels used in stationary assets, natural gas usage at facilities, landfill flaring	1,654.19	_
1	Direct Emissions from Mobile Combustion Source: Fossil portion of vehicle fuels	30,722.03	
Biogenic	Biogenic ${ m CO_2}$ Emissions from Mobile Combustion Source: Biomass portion of vehicle fuels	_	89,959.89
1	Direct Fugitive Emissions Source: Fugitive landfill methane	142,563.00	_
Biogenic	Biogenic CO_2 Emissions from Stationary Combustion Source: Landfill flaring, biomass portion of fuels used in stationary assets	_	46,475.88
2	Indirect Emissions from Electricity Use Source: Purchased electricity	2,523.84	_
Biogenic	${\sf Biogenic\ CO}_2\ {\sf Emissions\ from\ Electricity\ Use}\ \ {\it Source:\ Biomass\ portion\ of\ purchased\ electricity}$	_	16.98
	TOTAL	177,463.06	136,452.76

Sustainability.Recology.com Sustainability@Recology.com









RECOLOGY; the R design; RECOLOGY: A WORLD WITHOUT WASTE; RECOLOGY BUILDS EXCEPTIONAL RESOURCE ECOSYSTEMS; RECYCLE CENTRAL; and BEYOND WASTE are registered trademarks of Recology Inc. Other trademarks used in this report are the property of their respective owners.

©2022 Recology Inc. All rights reserved. Reproduction of material in this report only with the permission of Recology Inc.