La Verne, CA Campus
Find out more at: www.gilead.com/yir2017

PRACTICES & ENVIRONMENT

SUSTAINABILITY STRATEGY

Gilead's worldwide sustainability strategy aims to reduce the environmental impact associated with our supply chain, manufacturing and distribution of products, design and construction and general operations of corporate facilities. To implement this strategy, Gilead targets improvement across multiple areas as described in this report.

David Cadogan
Gilead, Cork, Ireland

Procurement and Supply Chain

Gilead is committed to working with suppliers that share our values related to social, economic and environmental performance. As part of our procurement and supply-chain strategy, we employ responsible sourcing, supplier inclusion, auditing procedures, green chemistry and sustainable manufacturing and distribution principles to minimize the impact from our procurement and supply chain practices.

Responsible Sourcing

Gilead's responsible sourcing efforts help ensure new and existing suppliers are as committed as we are to maintaining the highest standards of legal and ethical conduct.

In 2017, Gilead launched its *Supplier Code of Conduct* to integrate social, environmental and governance criteria into our procurement and supply-chain process. This document reflects the business practices and principles of behavior that support our commitment to supplier diversity, labor practices, human rights, environmental health and safety, environmental impact and management systems. It sets out the minimum requirements with which suppliers should comply within these areas.

Gilead selects suppliers who share our ethical standards. We vehemently oppose and condemn the use of child labor, unfair treatment, unfair wages, benefits and working hours, forced labor, human trafficking and discrimination based on race, color, gender, religion, disability, sexual orientation, gender identity or expression.

Gilead's suppliers actively work to reduce their environmental impact. Suppliers are encouraged to comply with all applicable environmental regulations, conserve natural resources, and, where possible, avoid use of hazardous materials, conflict minerals and restricted substances. Suppliers must also have systems in place to ensure safe handling, movement, storage, recycling, reuse or management of waste, air emissions and wastewater discharges. Beginning in 2019, we intend to meet with our key suppliers to review their greenhouse gas emission reduction plans.

In 2017, more than 100 of our suppliers for the Commercial, IT, Facilities, Research & Development, Human Resources and Public Affairs groups, representing more than $1 billion dollars in spend, signed Gilead's Supplier Code of Conduct.

Supplier Inclusion

Gilead's Supplier Inclusion program integrates inclusion and diversity principles into Gilead's company-wide procurement process.

Consistent with our core value of inclusion, our goal is to create and foster an inclusive and high-performing supply base where we embrace and leverage the unique talents of small businesses and/or businesses owned by women, minorities, LGBT individuals, veterans and service-disabled veterans.

Auditing Procedures

In an effort to maintain high standards throughout our supply chain, Gilead regularly monitors supplier activities to confirm adherence to Gilead policies and governing regulations.

In some cases, site audits are conducted to evaluate compliance with regulatory policies including, but not limited to, the Foreign Corrupt Practices Act, the United States Trafficking Victims Protection Act (TVPA), and other applicable labor and environmental regulatory policies. These audits also ensure product quality and compliance with current good manufacturing (GMP) and good distribution practices, regulations and guidance.

In 2015, Gilead implemented an Environmental Health and Safety (EH&S) auditing program for drug substances. Since its inception, more than 55 on-site audits or EH&S visits have been conducted to determine the extent to which chemical raw

2017 Influential Supplier Inclusion Partnerships

Diversity Alliance for Science
Identifies small and/or diverse businesses with whom Gilead and its industry peers can partner.

Institute for Supply Management Supplier Diversity Pharmaceutical Forum
A forum where members are dedicated to:

- Driving business results through innovation, agility and performance
- Mentoring and developing small and diverse suppliers
- Inclusive procurement
- Sharing best practices

Western Regional Minority Supplier Development Council
Supports the growth and welfare of minority communities by championing the use of minority-owned businesses in Northern California, Nevada and Hawaii.

Harini Sundar, Gilead, Foster City, CA

55+ on-site audits

In 2015, Gilead implemented an EH&S auditing program for drug substances. Since its inception, more than 55 on-site audits or EH&S visits have been conducted.

materials manufacturers and suppliers of finished active pharmaceutical ingredients are meeting Gilead's EH&S standards. Manufacturing suppliers are audited for practices including, but not limited to, capture of volatile organic compounds, chemical solid waste disposal, solvent recycling, compliance with local and international standards and other EH&S-related measures.

For on-site audits, reports are prepared to summarize any observations and shared with the supplier and Gilead's procurement personnel. If Gilead identifies actual or potential violations of our company policies or governing regulations, corrective action is recommended, and the supplier is flagged for follow-up evaluations. Certain violations, such as the use of forced labor, human trafficking or environmental negligence, would result in a terminated agreement and the supplying organization would be removed from Gilead's supply chain.

Countries of Origin

We routinely evaluate and address the risk of ethical violations for all countries involved in our supply chain by relying on various government records and other information to identify risks and act accordingly. Our product ingredients are sourced primarily from countries the United States Department of State has designated as being compliant with the TVPA minimum standards. We take extra precautions before sourcing product from countries that are still making efforts to bring themselves into full compliance with the TVPA. To verify compliance with our ethical standards, we visit many of our manufacturing suppliers in person, and only select suppliers that have been in business long enough to demonstrate compliance with our standards.

Manufacturing and Distribution

Gilead uses a combination of company-owned facilities and strategic third-party partners to manufacture and distribute products worldwide. With manufacturing sites located in the United States, Canada and Ireland, our Pharmaceutical Development and Manufacturing group is committed to reducing the environmental impact associated with manufacturing our products.

Gilead's suppliers for active pharmaceutical ingredients (APIs) and drug products must observe GMP regulations as required by the FDA and other relevant health authorities worldwide. GMP covers all aspects of production including manufacturing procedures, testing methods, maintenance of premises and equipment, training, personal hygiene of staff and appropriate documentation.

Green and Sustainable Chemistry

Innovating effective and efficient ways to manufacture pharmaceuticals has positive environmental benefits, including minimizing the energy, water, solvents and raw materials used to manufacture products. Gilead's PDM group incorporates green chemistry and sustainability principles throughout the product life cycle to support the company's commitment to minimizing the impact on the environment. The process chemistry teams, based in Foster City, California, and Edmonton, Alberta, Canada, are responsible for integrating green chemistry principles into the design and development of commercially viable chemical processes for Gilead's APIs.

Chemists and engineers are tasked with identifying manufacturing process improvement measures that enhance productivity and efficiency and reduce environmental impact. This includes employing green chemistry techniques and technologies such as enzymatic catalysis and flow chemistry, as well as selection of green solvents for use in the synthetic process and equipment cleaning.

By improving the chemical manufacturing process, we can produce the same amount of APIs with fewer manufacturing batches. This process improvement, along with more efficient equipment cleaning procedures, can significantly reduce overall solvent and water use. In 2017, our chemists improved three commercial processes, which reduced use of organic cleaning solvents by 60,000 liters and water use by about 550,000 liters at the Alberta plant.

Green chemistry metrics are used to evaluate process efficiency and to develop efficient and environmentally friendly manufacturing processes. Process mass intensity (PMI) is a green chemistry metric used industrywide to quantify the efficiency of a process. For a given process step, PMI represents the mass of all inputs going into a process (substrates, reagents, solvents and water) divided by the mass

Process Mass Intensity reduction projects implemented in 2017

Clinical Development API Projects:

88%
Reduced waste per kilogram of organic solvent consumption by as much as 88 percent

84%
Reduced waste per kilogram of drug substance use by up to 84 percent

30%
Reduced waste per kilogram of water use by more than 30 percent

Commercial API Projects:

20%
Reduced PMIs by up to 20 percent through various improvement projects

Anand Chokkalingam, Gilead, Foster City, CA

of the product isolated. In addition to quantification of step efficiency, the PMI of an entire process or route can be calculated and analyzed in terms of the contribution that each of the categories (substrates, reagents, solvents, water) makes to the PMI. Examining each step of a synthesis in this manner helps process chemists identify opportunities to improve the efficiency of the processes.

In 2017, process chemists began assessing PMIs for both development and commercial processes. As a result, significant reductions in PMIs for many projects have been realized, leading to reduced waste, energy, water and solvent usage.

Product Safety, Labeling, Marketing, Data Security and Anti-Counterfeiting

Gilead adheres to high standards with respect to product safety, labeling, marketing, data security and anti-counterfeiting. All Gilead products go through rigorous development, testing and clinical trials, and are labeled and marketed pursuant to governing policies and regulations.

In 2017, Gilead incurred one penalty for omitting product distribution and pricing information from a poster presentation in Greece. Aside from this, no other violations or penalties occurred in 2017 for safety, labeling, marketing, advertising or sponsorship.

To mitigate risks associated with data security, we use third-party managed security services to monitor cybersecurity incidents and advanced persistent threats. We also employ in-house technology solutions and a Security Operations Center to help maintain the integrity of Gilead's infrastructure and systems. In addition, we use a combination of systems and processes to comply with data protection regulations, such as the European Union Data Protection Directive, for storage and use of personal data.

In 2017, there were no substantiated complaints concerning breaches of customer privacy or losses of customer data.

Gilead's Anti-Counterfeiting Team consists of brand protection, legal, security, supply chain, quality and packaging professionals who collaborate to address the threat to patient safety associated with counterfeit or diverted Gilead medicines. Gilead's Anti-Counterfeiting Team uses measures to detect, stop, deter and report illicit sales of counterfeit medicines.

Foster City, CA

GILEAD SITES

Responsible Growth Through Master Planning

Gilead currently controls 4.5 million square feet of facilities worldwide. In 2017, Gilead launched a facilities master planning effort aimed to provide context and detailed plans for responsible future growth while simultaneously minimizing the environmental footprint of worldwide facilities. Initially piloted for the largest Gilead campus in Foster City, California, the master planning effort has now expanded to cover Europe, Middle East and Africa, Asia Pacific and Latin America.

4.5 million ft²
of facilities

Key objectives of the facilities master planning effort

- Provide context and strategic plans for future real estate decisions.
- Drive optimal utilization, reliability and efficiency of existing facilities.
- Ensure the safety and well-being of employees, while driving toward an efficient footprint that maximizes productivity.
- Establish a standard for environmental sustainability through thoughtful engineering, construction and operation of facilities worldwide.

Green Building at Gilead

Gilead employs innovative green building practices in both design and construction of new state-of-the-art facilities and efficient operation of existing facilities. Where possible, Gilead integrates local green building standards including Leadership in Energy and Environmental Design® (LEED®), Building Research Establishment Environmental Assessment Method® (BREEAM®), Haute Qualité Environnementale™ (HQE™) and other local green building standards. The following Gilead sites are either pursuing or have achieved green building recognitions to date.

- LEED® Platinum
- LEED® Gold
- LEED® Bronze
- LEED® Silver
- BREEAM® Outstanding
- BREEAM® Excellent
- BREEAM® Very Good
- Swiss Outstanding
- Dutch Grade A
- SCE Grade B

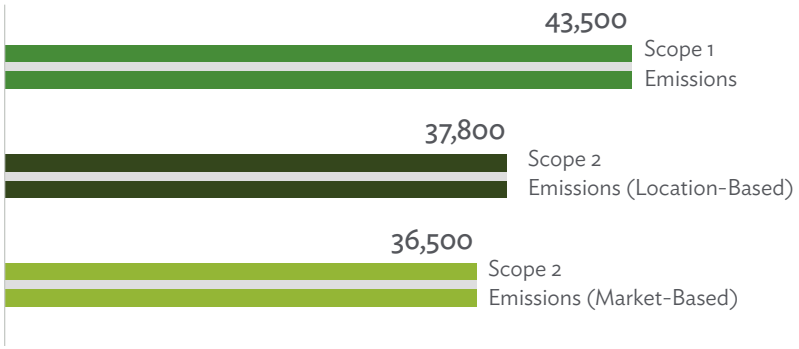
Gilead Green Building Recognitions Worldwide

Location	Green Building Recognition
Amsterdam, Netherlands	Dutch Grade A
Beijing, China	LEED® Gold
Brussels, Belgium	LEED® Silver
Buenos Aires, Argentina	LEED® Silver
Cambridge, U.K.	BREEAM® Very Good
Cork, Ireland	BREEAM® Very Good
Dubai, UAE	LEED® Silver
Foster City, U.S.	LEED® Silver
Hong Kong, China	LEED® Platinum
Istanbul, Turkey	LEED® Platinum
Lisbon, Portugal	SCE Grade B
London, U.K.	LEED® Platinum
Madrid, Spain	LEED® Gold
Melbourne, Australia	LEED® Silver
Mexico City, Mexico	LEED® Gold
Milan, Italy	LEED® Platinum

Location	Green Building Recognition
Moscow, Russia	BREEAM® Outstanding
Oceanside, U.S.	LEED® Gold
Paris, France	LEED® Silver
Sao Paolo, Brazil	LEED® Gold
Seattle, Washington, U.S.	LEED® Gold
Seoul, Korea	BREEAM® Very Good
Shanghai, China	LEED® Gold
Singapore	LEED® Gold
Stockholm, Sweden	LEED® Bronze
Stockley Park, U.K	BREEAM® Very Good
Tel Aviv, Israel	LEED® Gold
Tokyo, Japan	LEED® Platinum
Vantaa, Finland	LEED® Gold
Vienna, Austria	LEED® Gold
Warsaw, Poland	LEED® Gold
Washington, D.C., U.S.	LEED® Gold
Zug, Switzerland	Swiss Outstanding

2016 Greenhouse Gas Emissions from Gilead Facilities Worldwide

Metric Ton Carbon Dioxide Equivalent (MT CO_2e)



We intend to publish Gilead's verified 2017 worldwide greenhouse gas inventory in the 2018 Year in Review.

Greenhouse Gas Inventory

Gilead expanded its greenhouse gas reporting boundary in 2016 to include Scope 1 and 2 emissions from worldwide operations using the World Resources Institute (WRI)/World Business Council for Sustainable Development (WBCSD) Greenhouse Gas Protocol for Scope 1 and 2 emissions. We currently track carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O) and hydrofluorocarbons (HFCs) from stationary, mobile and fugitive emission sources.

2016 serves as our baseline year for benchmarking purposes, and our reporting boundary includes all sites for which Gilead maintained operational control between Jan. 1, 2016, and Dec. 31, 2016. The level of assurance was provided in August 2017 by a certified assurance provider using the International Organization for Standardization (ISO) 14064-3 standard for greenhouse gas assertions.

Wind turbines in Cork, Ireland

Foster City Campus

2.8 million ft^2

FOSTER CITY, CALIFORNIA, UNITED STATES

Located in Foster City, California, Gilead's worldwide headquarters contains 2.8 million square feet of office, research and development and laboratory space.

Green Building

In 2017, the Foster City campus expanded in line with the site's ambitious master plan to include two new buildings: a cross-functional research and development facility and a pilot plant and lab for the Pharmaceutical Development and Manufacturing group. Developed in partnership with the Foster City community, the master plan incorporates responsible growth and green building requirements, while helping to ensure the needs of the local community are met.

Biodiversity

The Foster City campus borders a sensitive wetland area adjacent to the San Francisco Bay, so Gilead and its partners take great precautions to minimize potential environmental impact related to our operations and construction activities. For example, Gilead and its partners follow a comprehensive stormwater pollution prevention plan during construction, and natural bioswales are used to prevent surface pollutants from entering into the adjacent bay.

Energy Use

At the Foster City campus, Gilead uses advanced energy management and demand response measures to reduce energy consumption, manage peak electricity demand

The two new high-performance buildings in Foster City are pursuing LEED® Silver certification and contain the following sustainable design features:

Electric vehicle charging stations and preferred parking for carpool and low-emitting vehicles.

"Cool roofs" to reduce the urban heat island effect.

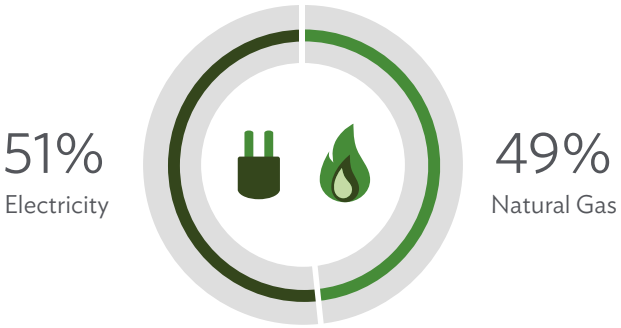
Energy-efficient lighting and mechanical systems.

Building materials made of recycled, locally sourced and/or low-emitting/ nontoxic raw materials.

Wood sourced from sustainably managed forests.

and minimize greenhouse gas emissions. In 2017, we implemented 79 energy conservation measures, reducing annual energy use by an estimated 15,400 MMBtu. By September 2017, we procured 50 percent of the total campus annual electricity use from renewable energy sources.

2017 Foster City Campus Energy Use



Foster City Campus Energy Use
in MMBtu

	2016*	2017
Electricity	182,170	183,502
Natural Gas	174,534	177,074
Total	356,704	360,576

Foster City Campus Energy Use Intensity
in kBtu/ft²

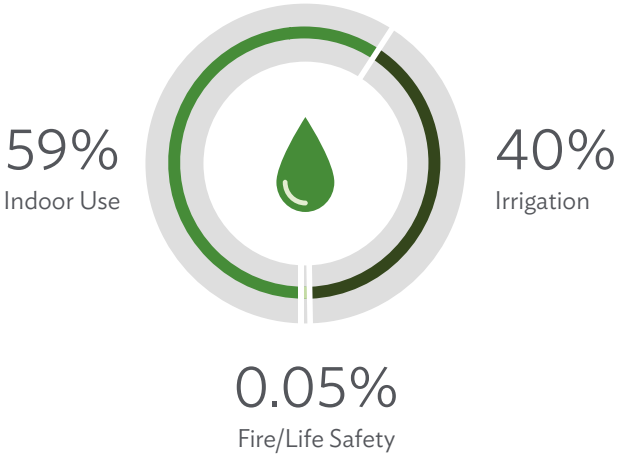
	2016*	2017
Campus Area (ft²)	2,353,206	2,794,761
Electricity	77	66
Natural Gas	74	63
Total	152	129

Calculated by dividing the total electricity and gas consumed by regularly occupied buildings by the gross square footage of occupied buildings. The energy usage and square footage of buildings undergoing construction are omitted from the EUI calculation to enable accurate year-over-year comparison of energy intensity data.

Water Use

Building domestic water and landscape irrigation are the primary sources of water consumption on the Foster City campus. To reduce domestic water use, all buildings on the Foster City campus are outfitted with low-flow water fixtures, and laboratories use highly efficient centralized equipment washers in place of smaller localized equipment washers. To reduce water used for landscape irrigation, smart, weather-based irrigation controllers are used in conjunction with efficient irrigation distribution systems. In 2017, the Foster City campus used a total of 44,143,927 gallons of municipal water.

2017 Foster City Campus Water Use



Foster City Campus Water Use
in Gallons

	2016*	2017
Indoor Use	28,738,585	26,181,002
Irrigation	12,118,410	17,937,491
Fire/Life Safety	47,875	25,434
Total	40,904,870	44,143,927

* Restatement of data reported in the 2016 Year in Review. Refer to disclosure 102-48 in the GRI Content Index for additional details.

Foster City Campus Waste Disposal
by Weight in Metric Tons

Non-hazardous Waste Disposal	2016*	2017
Garbage	831	785
Organics	565	716
Recyclables	848	983
Total	2,244	2,484
Hazardous Waste Disposal		
Incineration	Not reported	256
Energy Recovery		93
E-Waste Recyclables		19
On-site Storage		4
Neutralization		2
Solvent Recovery		2
Metal Recovery		1
Recovery for Reuse		0.08
Landfill		-
Total		377

Waste data provided by waste disposal contractors.

Waste Reduction and Recycling

A comprehensive recycling program is in place across the Foster City campus to minimize landfilled waste and greenhouse gas emissions. Employee cafeterias, break rooms and other areas are equipped with compostable cups, containers and flatware, and designated recycling, compost and trash bins are provided for proper waste disposal. Water filtration stations are available to promote the use of reusable drink containers. In 2017, Gilead's Foster City campus achieved a waste diversion rate of 68 percent (by weight), up from 63 percent (by weight) in 2016.

The hazardous waste generated from laboratories and other areas is managed by Gilead's EH&S team. In 2017, 377 metric tons of hazardous waste was exported from the Foster City campus for disposal. No hazardous waste was imported to the site, treated on-site or shipped internationally.

Gilead and its partners follow stringent construction waste management and recycling plans to minimize the volume of construction waste sent to local landfills. By the end of 2017, 93 percent of construction- and demolition-related waste (by weight) from our new research and development facility was diverted from local landfills.

*Restatement of data reported in the 2016 Year in Review. Refer to disclosure 102-48 in the GRI Content Index for additional details.

2017 Foster City Transportation Metrics

300

commuters transported by Gilead's employee bus per day

1,728

metric tons of CO_2e emissions reduced from employee vehicles through campus shuttle program

Transportation

Gilead is committed to reducing greenhouse gas emissions, air pollutants, traffic and other negative environmental impacts resulting from employee transportation. In 2017, Gilead's employee bus transported an average of 300 commuters each day, reducing greenhouse gas emissions from employee vehicles by 1,728 metric tons of CO_2e.

Additional shuttles are provided servicing Bay Area Regional Transit (BART) and Caltrain stations. Gilead's Commuter Check program helps employees offset the cost of alternative transportation by subsidizing approved transportation modes including BART, Caltrain, vanpools and regional buses.

To promote bicycle transportation, Gilead offers employees and visitors on-site bike lockers and showers. In addition, Gilead partners with a mobile bike service vendor that completed 29 bicycle repairs for Gilead employees in 2017.

La Verne and San Dimas Campuses

23
acres in La Verne

LA VERNE AND SAN DIMAS, CALIFORNIA, UNITED STATES

For more than 20 years, Gilead's San Dimas facility has manufactured, packaged and distributed our products throughout the Americas and the Pacific Rim. In August 2017, Gilead celebrated the grand opening of our newest production facility on a 23-acre campus in La Verne.

In 2017, production efforts began at the La Verne facility, which will eventually replace our production facility in San Dimas. La Verne substantially increases Gilead's manufacturing capacity and utilizes state of the art equipment. When fully operational, the site will employ up to 500 people, making it the second-largest employer in La Verne.

The custom-designed, 350,000-square-foot facility includes ISO 5 to ISO 8 clean rooms and tablet and vial packaging lines to support large-scale pharmaceutical manufacturing and packaging. The lab-office building houses quality control, validation and manufacturing technical support laboratories as well as a full-service cafeteria and fitness center.

The La Verne campus was designed around core sustainability concepts, including a central plant capable of maintaining high levels of operating efficiency as it responds to varying demands of the campus. Energy and water recovery technology is utilized to recover valuable resources from process waste streams. A network of advanced sensors allows for real-time monitoring of energy systems. The roof has been designed to accommodate future installation of solar photovoltaic systems and electric charging stations have been installed to support employees and visitors using electric vehicles.

Large glass panels, skylights and solar tubes allow natural light to illuminate large portions of the facility during the day. Efficient LED lighting is used across the campus and is controlled with advanced sensors and timers.

Water consumption is minimized on campus through the use of drought-tolerant vegetation, low-flow fixtures and automatic faucets.

In 2016, a shuttle service was initiated to transport employees between the San Dimas and La Verne sites to reduce single-passenger vehicle trips and greenhouse gas emissions. In 2017, a commuting survey was distributed to employees to collect information on commuting methods. In response to the results from the survey, an incentivized rideshare program was subsequently launched to further reduce greenhouse gas emissions from single-passenger vehicles and provide employees other transportation options.

In 2017, the San Dimas facility continued to improve and streamline its operations. The site used 2 percent less energy and 5 percent less water compared with 2016. In addition, through initiatives like compost collection and reusable cup programs, Gilead San Dimas reduced the volume of employee waste sent to landfills by 15 percent compared with 2016.

Compared to 2016, the site used:

2% less energy

5% less water

Gilead San Dimas reduced the volume of employee waste sent to landfills by **15%**

Oceanside Campus

LEED® Gold
certification

OCEANSIDE, CALIFORNIA, UNITED STATES

Gilead's Oceanside facility is responsible for the clinical manufacture and process development of biologics candidates in preclinical, Phase 1 and Phase 2 testing.

Exemplified by its LEED® Gold certified office and laboratory facility, the Oceanside site features an array of sustainable design elements inspired by a team driven by continuous improvement.

In 2017, the cooling towers serving the manufacturing facility were retrofitted with a new water treatment technology to eliminate chemical use. In addition, a water reuse system was installed in 2016 to capture discharge water from the building's reverse osmosis system to provide make-up water for the cooling towers. This retrofit reduced cooling tower water consumption by 44 percent in 2017 compared with 2016.

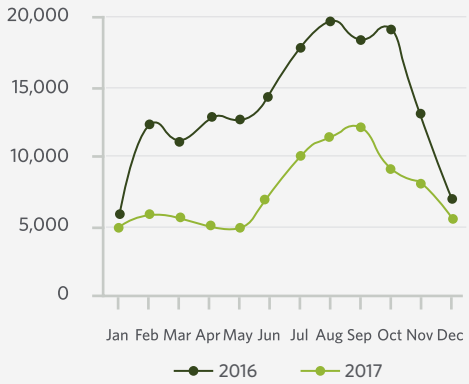
To reduce the amount of process water, energy, chemicals and steam used for cleaning manufacturing equipment and parts, a feasibility study was conducted in 2017 to increase the clean hold time (CHT), or amount of time stainless steel tanks can be held before they are used or need to be re-cleaned. The study identified a process improvement that will allow the CHT to be extended up to 14 days, which will reduce energy and chemical consumption and save up to 39,000 gallons of water each year. This process improvement is anticipated to be complete in early 2018.

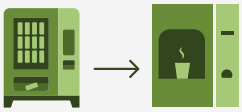
To reduce waste, vending machines in employee break rooms were replaced in 2017 with fountain drink systems and reusable cups, eliminating approximately 600 pounds of aluminum waste. Plastic materials from lab areas were recycled and turned into composite park benches. In addition, nearly 11 metric tons of green waste were collected and reused as mulch to enrich soils.

Oceanside Cooling Tower Avg. Daily Water Use

(Gallons Per Day)

This retrofit reduced cooling tower water consumption by 44 percent in 2017 compared with 2016.





600 pounds
aluminum waste

To reduce waste, vending machines in employee break rooms were replaced in 2017 with fountain drink systems and reusable cups, eliminating approximately 600 pounds of aluminum waste.

11 metric tons
of green waste were collected and reused as mulch to enrich soils.

Edmonton Campus

ISO 14001
certified

EDMONTON, ALBERTA, CANADA

Gilead's facility in Alberta focuses on the development and manufacturing of active pharmaceutical ingredients for the company's investigational compounds and commercial products. The site also provides process and analytical support to Gilead's commercial contract API manufacturing sites around the world.

Since 2010, Gilead Alberta's GreenInitiative (GI) volunteer committee has been responsible for fostering environmental awareness, through education and grass roots awareness campaigns across the campus. The GI committee also conducts annual Environmental Behavior Improvement Audits to identify opportunities for improvement.

Gilead Alberta has been ISO 14001 certified since 2012. In 2017, the site achieved certification under the new ISO 14001: 2015 Standard. Continued compliance with this standard demonstrates the facility's commitment to achieving financial and operational benefits through implementing policies that also reduce their overall impact on the environment.

Cradle-to-grave hazardous waste audits were conducted in 2017, resulting in improved safety at the hazardous waste storage facilities and improved regulatory compliance.

In 2017, the facilities team concluded a multi-year effort to reconfigure vacuum pumps on the East Campus from water sealed to dry-sealed systems. The project eliminated the potential for solvent entrainment into the sanitary sewer and reduced potable water consumption by more than 6.9 million gallons per year.

Other measures implemented by the facilities team in 2017 included recapturing steam condensate and replacing a fixed speed air compressor in the plant with a variable frequency drive. These measures reduced potable water use by 30,900 gallons and electricity use by approximately 219 MWh per year.

2017 Gilead Waste Reductions at Edmonton

5.4 metric tons
of e-waste and 335 toner cartridges recycled

52.0 metric tons
of organic waste composted

9.6 metric tons
of clean wood recycled

2.8 metric tons
of construction and demolition waste recycled

Stockley Park and Cambridge Campuses

BREEAM®
"Very Good" ratings

CAMBRIDGE, UNITED KINGDOM

In 2017, Gilead celebrated the opening of a new building for its research and development facility in Granta Park, Cambridge, which supports countries in Europe, Australia and other parts of the world.

Completed in just 18 months after the official groundbreaking, the new facility consolidates operations from two existing buildings into one high-performance green building. By maximizing both active and passive design elements, and incorporating on-site renewable energy generation, this facility achieved a BREEAM® "Very Good" rating and is one of the company's most sustainable sites.

Cambridge's key green building features include:

- 65 kW on-site solar photovoltaic system to offset grid-supplied electricity.
- Passive shading on the south façade to manage solar heat gain.
- LED lighting controlled with advanced sensors and timers.
- Building management system to optimize building operating schedules and temperature set points.
- 80 bicycle bays to promote alternative commuting.
- Sustainably sourced materials such as certified wood products from responsibly managed forests.
- Reusable water stations to eliminate single-use plastic cups.
- Infrastructure for eight electric vehicle charging stations scheduled to be installed in 2018.

STOCKLEY PARK, UNITED KINGDOM

Gilead's Stockley Park office provides centralized support for most of Gilead's operations outside the United States and Canada.

To conserve energy, the facility uses an advanced building management system to automatically control space temperatures, unoccupied setbacks and lighting systems. New initiatives were implemented in 2017 to encourage employees and building staff to turn off plug load equipment when not in use and to be proactive in reporting instances of energy and water waste. For example, Stockley Park achieved an annual water use reduction of 12,000 gallons as a result of water conservation efforts implemented in 2017.

To reduce waste sent to local landfills, the facilities team implemented a centralized recycling bin program to maximize recycling rates, conversion of waste-to-energy and transfer of organic waste to anaerobic digesters. These, and other measures, enabled this BREEAM® "Very Good" rated facility to maintain its zero landfill status in 2017.

To reduce transportation-related emissions and to encourage employees to commute using alternative fuel vehicles, four electric vehicle charging stations were installed at Stockley Park in 2017.

Cork Campus

Zero landfill waste status for five consecutive years

CORK, IRELAND

Gilead Sciences Ireland Unlimited Company (GSIUC) is responsible for manufacturing, quality control, packaging, and release and distribution of the company's products in the European Union and other international locations.

The Corporate Social Responsibility (CSR) committee in Cork is guided by principles of promoting science, supporting the local community, promoting the health and well-being of employees and aligning with Gilead's therapeutic areas. The committee has successfully created a strong culture that inspires employees to continually strive to develop new sustainable processes to minimize our impact on the environment.

2017 marks the fifth consecutive year the Cork site has maintained its zero-waste-to-landfill status. Since the goal to eliminate waste was set in 2012, more than 100 metric tons of solid waste have been diverted from Ireland's landfills.

Beginning in 2017, the Cork site started sending hazardous waste to a facility capable of converting it into usable electricity. In this first year, more than 50 metric tons of hazardous waste were converted to approximately 29 MWh of electricity. All effluent and wastewater streams are treated on-site, and no process waste is emitted directly to the atmosphere.

In 2017, an engineering analysis determined that the existing roof drainage network was capable of harvesting approximately 3,700 gallons of water per day. This is enough to reduce the amount of municipal water needed to generate steam on-site by 80 percent at peak demand. This project is planned for implementation in 2018.

Throughout 2017, the Cork facilities team continued to leverage data from a real-time energy monitoring system to identify operational efficiencies and cost-saving opportunities that would otherwise go unnoticed relying only on monthly statements.

The Cork site continued to purchase 100 percent wind-generated electricity to power its operations. The facility also continuously monitors water consumption within all areas through "live" metering. Using baseline data developed throughout 2016–2017, excess water usage is investigated, which has reduced total water use by 1.4 percent.

With the addition of a second primary packaging line and expansion of the QC lab in 2017, efforts were made to validate monthly energy consumption data and minimize increases where possible. To offset increased electrical load, Gilead installed heat recovery systems on exhaust streams to recover and reuse useful heat, which reduced total energy consumption by 7.4 percent compared with 2016.

In 2017, GSIUC received a "Distinction Award" from the National Irish Safety Organization for consistently maintaining high levels of occupational safety and health and safety management.

50 metric tons
of hazardous waste

29 MWh
of electricity

Starting waste is converted into energy