

Sustainability at PPG



At PPG, we continue to enhance and strengthen our sustainable operations and bring life to our purpose and promise: **WE PROTECT AND BEAUTIFY THE WORLD™**.

Our sustainability goals serve as a guide for our businesses and locations to embed sustainability into their day-to-day operations and measure their progress.

Goal	2018 Progress
40 percent of sales from products and processes that have improved sustainability over products being replaced by 2025.	32 percent
25 percent reduction in total waste disposal intensity by 2025 from a 2017 baseline.	5.6 percent reduction from 2017
Achieve zero landfill status from process waste at 35 percent of PPG manufacturing and research and development locations by 2025.	29 percent of locations achieved zero landfill status
Reduce energy consumption intensity by 15 percent by 2025 from a 2017 baseline.	2.2 percent reduction from 2017
Increase renewable energy to 25 percent of total electricity usage exclusive of greenhouse gas (GHG) reductions by 2025.	16.3 percent renewable energy
Reduce GHG emissions intensity by 15 percent measured in total tons discharged by 2025 from a 2017 baseline.	4.3 percent reduction from 2017
On our path to eliminating spills, ensure that we achieve at least a 65 percent improvement in our spills and releases rate by 2025 from a 2017 baseline.	28.3 percent improvement from 2017
20 percent reduction in water intensity by 2025 from a 2017 baseline.	7.3 percent reduction from 2017
Zero injuries. On our path to zero injuries, ensure that we achieve an improvement of at least 5 percent per year in our injury and illness rate.	Rate of 0.26 was 10.3 percent below the 2017 rate — a record low for the number of injury cases across the company
Active wellness programs at 100 percent of PPG facilities globally by 2025.	58 percent of our locations with 50 or more employees had a wellness program in 2018
Implement the community engagement framework globally by 2025.	70 percent of our facilities met the framework requirements in 2018
Invest at least \$10 million by 2025 through the COLORFUL COMMUNITIES® initiative.	\$3.7 million invested through 2018
Eliminate lead from remaining non-consumer coatings formulations by 2020.	By the end of 2018, eliminated 91 percent of the remaining non-consumer products

To view the 2018 PPG Sustainability Report, visit sustainability.ppg.com.



Recent sustainable innovations



Low-cure paint technology revs up sustainability

Before we introduced our new low-cure paint technology in 2018, approximately 70 percent of total energy consumption at an automotive assembly facility took place in the paint shop. The new technology uses up to 39 percent less energy through a next-generation clearcoat that cures at about 175° F (80° C) compared to nearly 285° F (140° C) for current systems. Added benefits include a simplified manufacturing process and smaller paint shop footprint. An exclusive Italian sportscar original equipment manufacturer was the first to adopt the technology for low-volume applications.



A formula for customer success

When THE HOME DEPOT® asked for our help in meeting its commitment to sell only interior and exterior water-based wall paints in the U.S. and Canada that help maintain healthier air quality and exclude chemicals of concern, we acted. We are on target to revise 273 PPG paint products sold by the home improvement retailer by the December 2019 deadline. All of the products will conform to the South Coast Air Quality Management District volatile organic compound (VOC) limits, which are considered to be the most stringent in the world, and the interior wall coatings will undergo indoor air quality assessment.



PPG, customers benefit from chrome-free products

Our efforts to remove hexavalent chromium from various products benefit both PPG and our customers by eliminating special handling and disposal requirements and potential employee exposure to a known carcinogen. In 2018, we introduced a pretreatment technology free of hexavalent chromium that improves coating adhesion and corrosion protection on aircraft. It was the first product of its kind to be included on the U.S. Navy's qualified products list.



Is that a plant in my paint?

A partnership with a PPG customer and supplier resulted in the first bio-based paint to receive a KOMO Quality certificate from SKH, an auditing company that certifies products mainly for the Dutch market. Although the new paint is produced from plants, it is chemically the same as oil-based paints and has no loss of quality. The paint is designed for use on exterior industrial wood.



Reformulated paint brings enduring sustainability

How do you make a market-leading interior paint better? By updating its formula to be low-VOC and free of alkylphenol ethoxylates (APEOs). In 2018, we relaunched our TAUBMANS™ Endure Interior paint into the Australian and New Zealand markets. The reformulated product reduces odor and has VOC levels of 1.4 ounces per square foot (15 grams per liter). Its high serviceability and anti-bacterial and anti-mold properties mean fewer repaints and lower consumption of non-renewable resources over the lifetime of the product.



Powder coating extends spring life, increases recyclability

PPG ENVIROCRON™ Extreme Protection powder coating is formulated without fiberglass, making it easy to reclaim and recycle compared to competitive products. The coating is formulated to provide superior chip resistance, offering a first line of defense against corrosion and extending the life of high-tensile automotive coil springs.

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