



Georgia-Pacific

Progress with Purpose

2022 Stewardship Report



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INTRODUCTION

Sustainable outcomes that benefit society

A message from John Mulcahy, Vice President, Stewardship



At Georgia-Pacific (GP), stewardship encompasses the responsible management of our actions and the resources entrusted to our care in a manner that respects the rights of others. These resources include the natural environment, which we rely upon for our raw materials, the processes we manage to transform them into goods and services, and the relationships we have with our employees and communities. We seek mutually beneficial outcomes across environmental, social, and governance (ESG) priorities with customers, employees, suppliers, communities, and other key constituencies.

GP has been helping people improve their lives through mutual benefit for almost a century, providing solutions that create shelter, improve hygiene, offer convenience, extend shelf life, and protect goods in transit. We have been and

continue to be an important part of the communities in which we operate, providing good jobs and contributing to prosperity through our economic activity and the engagement of our company and employees in civic and philanthropic activities. Our focus is to make progress daily, improving performance by living a principle of stewardship, embracing creative destruction, improving efficiencies, eliminating waste, finding new ways of meeting needs, and driving conservation activities that leave more resources available to satisfy other needs in society.

At Georgia-Pacific, we strive to be a preferred partner and drive continuous improvement to create sustainable outcomes that benefit society.

Learn more about how GP manages ecosystems from John Mulcahy.



Our Priorities for Progress

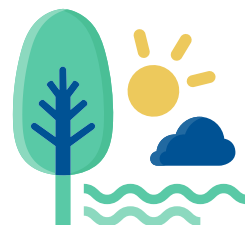
These priorities guide our behavior as we work to help people improve their lives. Dive deeper into each one to discover the specific ways in which that impact comes to life.



CONSERVE

Natural Resources Conservation

Work responsibly as future-focused stewards of forests, air, water, and biodiversity.



CONTROL

Emissions

Keep outputs in check through the reduction of emissions.



CONNECT

Breaking Down Barriers

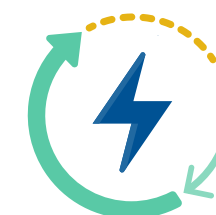
Seek mutual benefit with customers, employees, suppliers, communities, and other key constituencies.



CHALLENGE

Efficient Resource Use

Innovate responsible use of all resources.



CONTRIBUTE

Sustainable Products

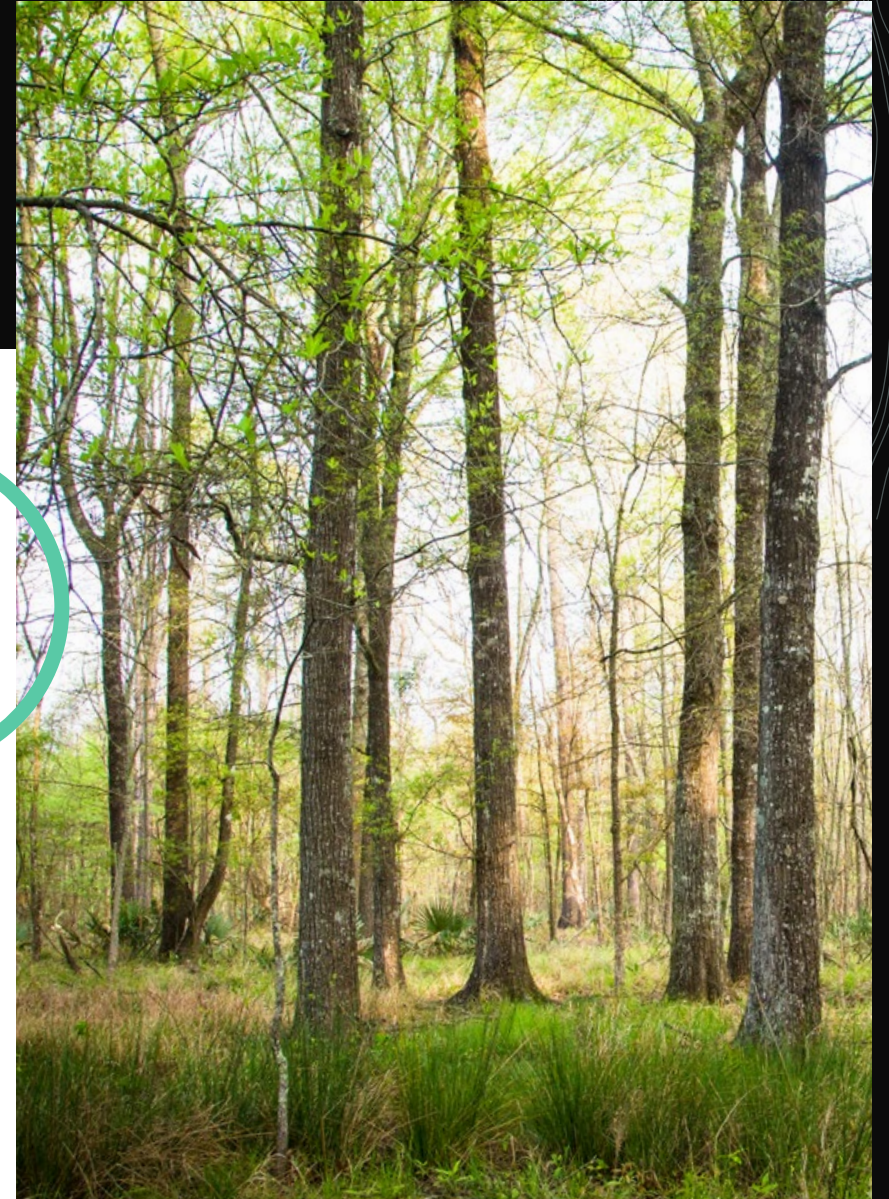
Make goods and services that help people improve their lives.

CONSERVE

Natural resources conservation

Forests for the future

Forests protect air and water quality, serve as habitat for wildlife, provide recreational, spiritual and cultural uses, deliver carbon benefits, and offer natural resources to make products people want and need. At Georgia-Pacific, we work to use these resources efficiently, source responsibly, protect endangered areas, and support wildlife conservation and biodiversity. It is all part of our commitment to helping maintain healthy forests for generations ahead.





Leaf River, MS

Responsible sourcing

Georgia-Pacific only partners with sustainable, legal, and responsible sources.



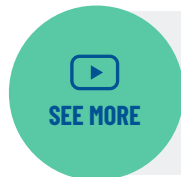
More than 90% of the fresh fiber in our products is grown in the United States, where landowners employ best management practices to act as proper stewards of the forests, water, and biodiversity.



The majority of our fiber is grown by private and family forest owners who have helped the U.S. now grow more wood, in the form of living trees, than in the last 60 years.*



We take additional steps to help ensure all the fiber we receive is legal, sustainable, and respects social values.



Take a virtual walk through a working forest, experience responsible harvesting methods, and learn about our sustainable forestry practices.

* The Forest Inventory and Analysis (FIA) Program of the U.S. Forest Service

Monitoring resources

In regions where we purchase wood and fiber in the United States, we actively map endangered forests and special areas using scientific criteria and modeling that assesses high conservation values. GP doesn't buy wood from these areas except in unique situations when active forest management is needed to improve habitat for endangered, rare, and/or vulnerable species. As part of this process, we have:

- Partnered with Natureserve to provide the latest scientific modeling and mapping behind up-to-date high-conservation-value areas in all of our U.S. fiber procurement basins.
- Engaged Planet, a satellite imagery platform, to provide monthly images of our endangered forest areas and developed a GIS algorithm to identify changes in areas over time for monitoring purposes.
- Developed a new online platform for suppliers to easily access the latest endangered forest maps.

We believe in going beyond certification in our sourcing practices so that all people who rely on forests for income can participate in wood markets, but do so responsibly and in a manner that conserves our world's resources.

Learn more about how
Georgia-Pacific promotes
biodiversity.

[WATCH VIDEO](#)

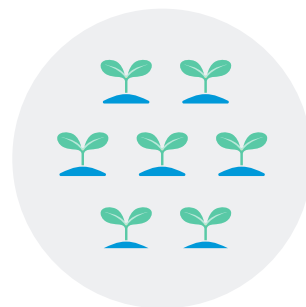
Support wildlife conservation and biodiversity

Georgia-Pacific works with others in the forestry and environmental community to support wildlife and forest enhancement projects in areas near GP operations.



1:1 PHILOSOPHY

For every tree we use, at least one tree is regrown.



5 MILLION

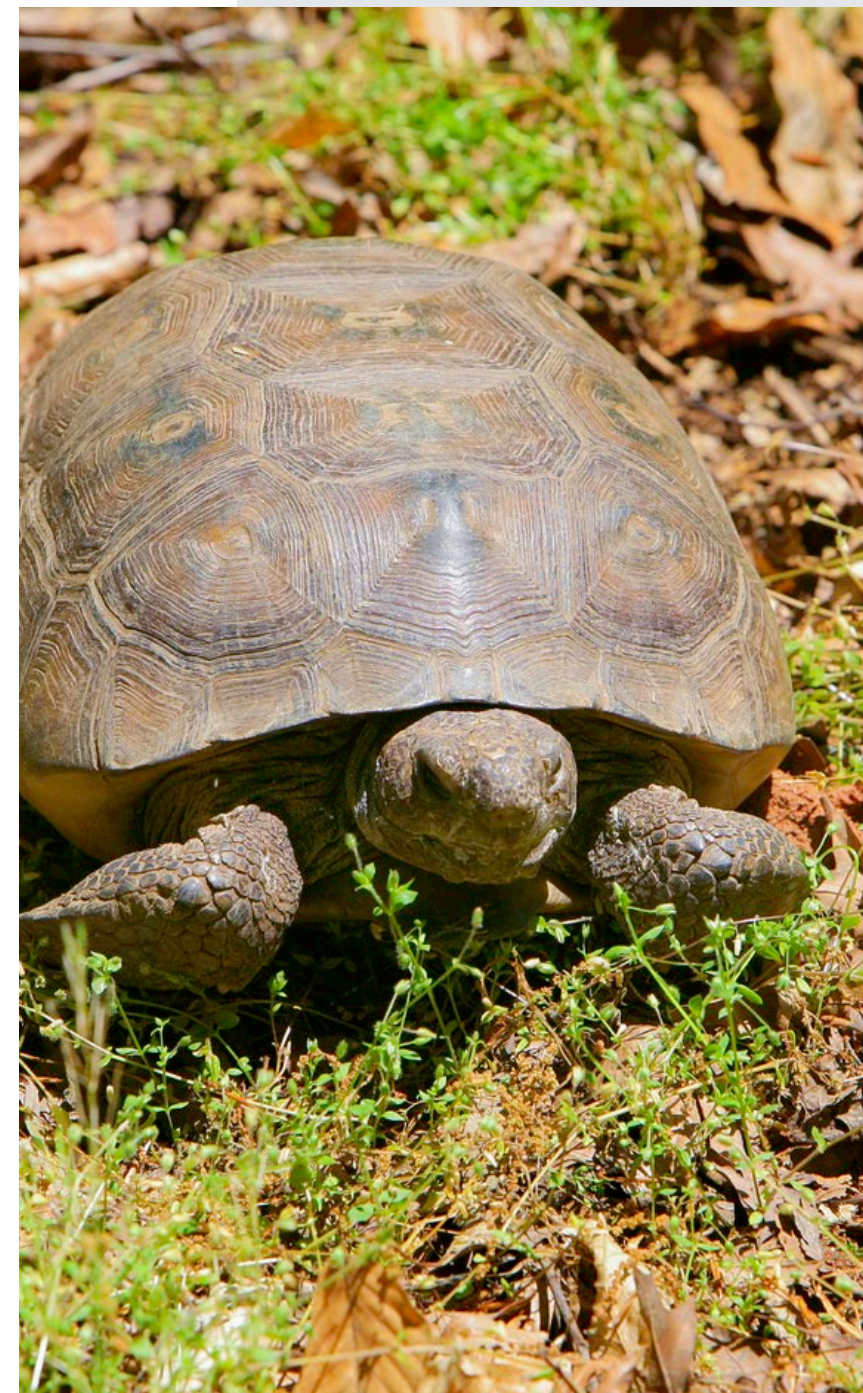
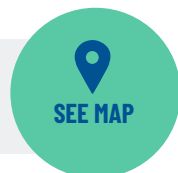
In addition to the new trees planted in our sourcing basins, we have planted more than 5 million seedlings since 2018 in restoration and reforestation projects.



PROJECTS IN 23 STATES AND CANADA

We protect endangered species, restore forest ecosystems, and promote wildlife diversity.

See our conservation project map to explore our efforts across the U.S.



CHALLENGE

Resource efficiency

Innovating responsive solutions

Georgia-Pacific continuously evaluates and transforms how we use resources. From fiber efficiency to energy choices and bleaching technologies, we operate responsibly to better serve our partners, consumers, and communities.



Monticello, MS



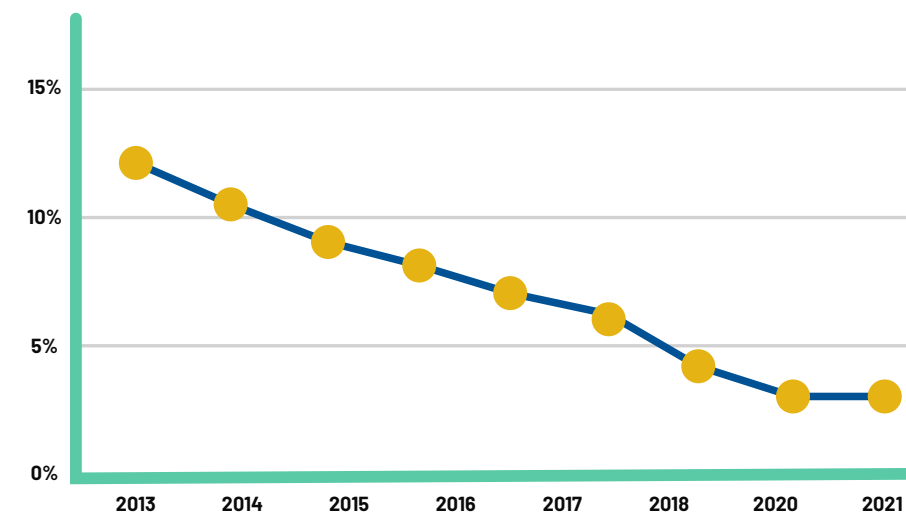
Since 2013, we have made capital investments that resulted in the closure of eight solid fossil fuel (coal and petroleum coke) power boilers and replaced this energy demand with either natural gas or biomass.

Taylorsville, MS

Solid fossil fuels

We operate economically and efficiently, decreasing our reliance on solid fossil fuels by 79% since 2013. Shifting to natural gas and biomass has also resulted in a decrease in our greenhouse gas emissions.

Percentage of GP's Energy Derived from Solid Fossil Fuels



An interconnected, circular story

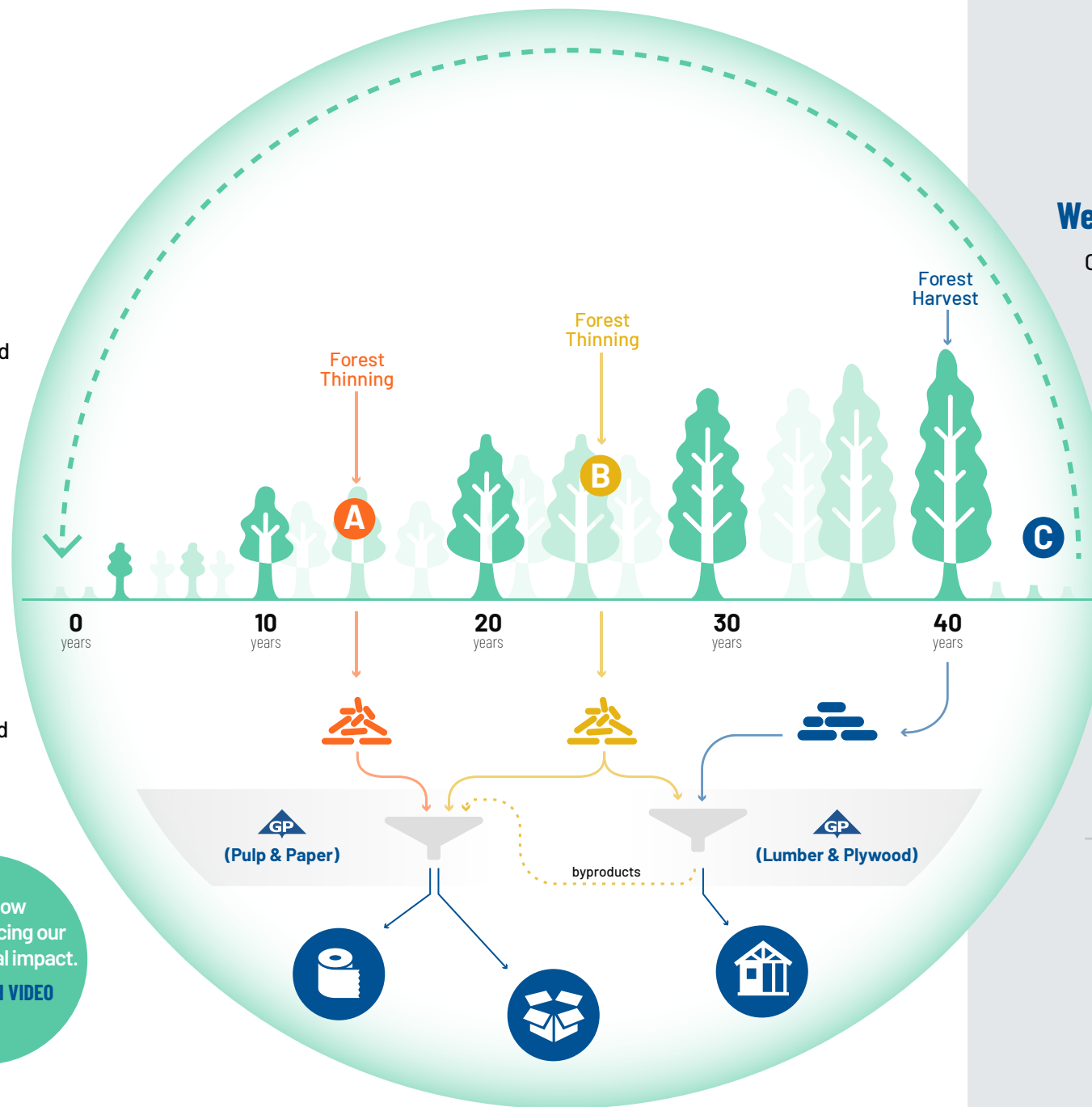
A To increase growth and reduce mortality, forests are thinned. The removed trees are too small for lumber, so they are used in GP pulp and paper mills.

B The forest is thinned again. Some of the wood is large enough to make lumber. Other trees and byproducts from making lumber will supply GP pulp and paper mills.

C All remaining trees are harvested and processed at GP plywood and sawmills. For every tree we use, at least one tree is grown. The circular process repeats.

Learn how we are reducing our environmental impact.

[WATCH VIDEO](#)



We use every part of the tree

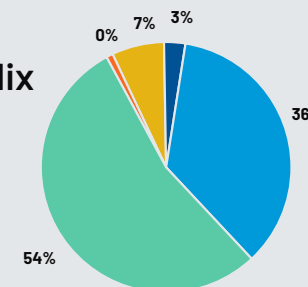
Cellulose from trees is the main building block for our pulp and paper products. But more than half of every tree consists of water, which we capture and process to use in our mills.

Most limbs, branches, leaves, and needles remain in the forest to promote nutrient cycling. The bark and other organic materials are used as biomass – the primary energy source for our manufacturing facilities.

Pine chemicals such as turpentine are recovered and sold. We also use a mix of recycled and fresh fibers to make our tissue, boxes, and other paper products.

GP's 2021 Fuel Mix

- Biomass
- Natural Gas
- Purchased Electricity
- Pet Coke/Coal
- Fuel Oil



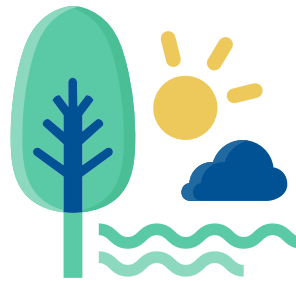
CONTROL

Emissions

Keeping output in check

We apply transformative solutions to help control our emissions.

Focus areas include air, waste, greenhouse gas, and water.



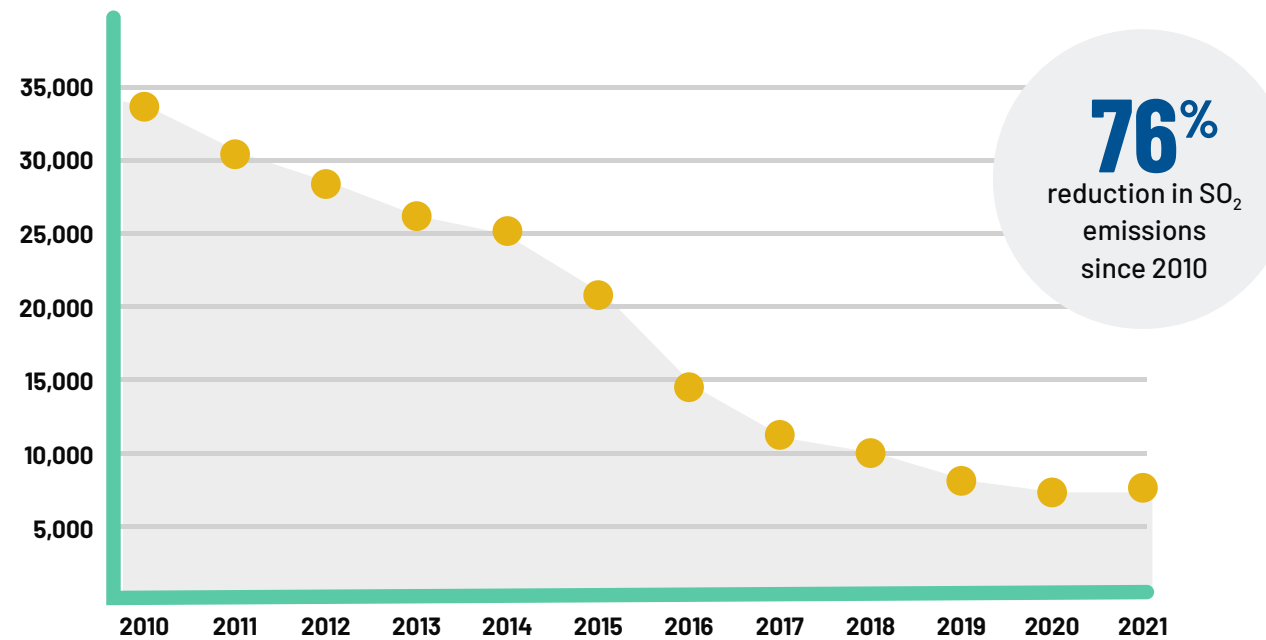


Green Bay, WI

Air

At our Broadway Mill in Green Bay, Wisconsin, we invested in improvements that generated immediate reductions of SO₂ emissions, which contribute to smog. By converting that facility's coal-fired boilers to natural gas, the mill dramatically reduced its sulfur-dioxide emissions by 95%, yet boosted its energy efficiency. In fact, GP's facilities have realized a 76% reduction in SO₂ emissions since 2010 – that's more than 26,000 tons – with even more reductions on the way.

SO₂ Emissions from Pulp and Paper Mills



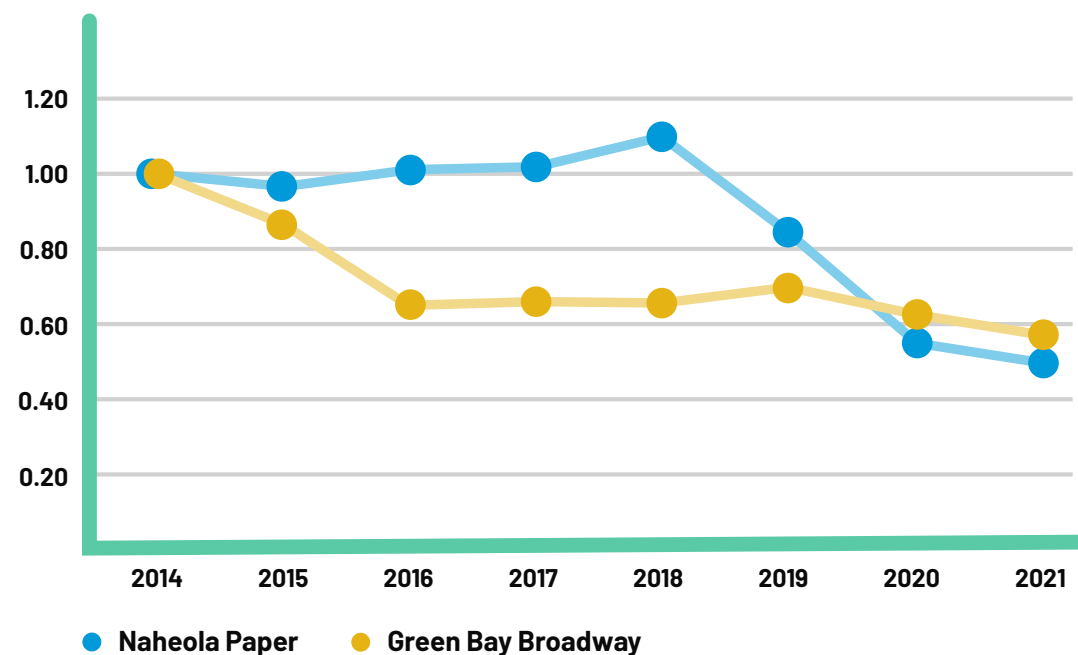
76%
reduction in SO₂
emissions
since 2010

Greenhouse gas

In addition to our investments that have reduced greenhouse gas emissions in Georgia-Pacific operations, we also work with customers who have established carbon reduction goals for their supply chain.

In 2019, approximately 55% of our energy needs were derived from renewable biomass sources.

GHG Intensity Trend for Green Bay Broadway and Naheola (Indexed to 2014)



GP's Naheola Mill eliminated coal use in August 2019 with the startup of a new biomass boiler and realized a reduction in GHG emissions intensity of 50% from 2018 to 2020.

The Green Bay Broadway Mill's emission intensity has been reduced by nearly 40% from 2014 to 2020, a trend that continued in 2021, with the removal of the last coal-fired boiler in late 2020.

Camas, WA

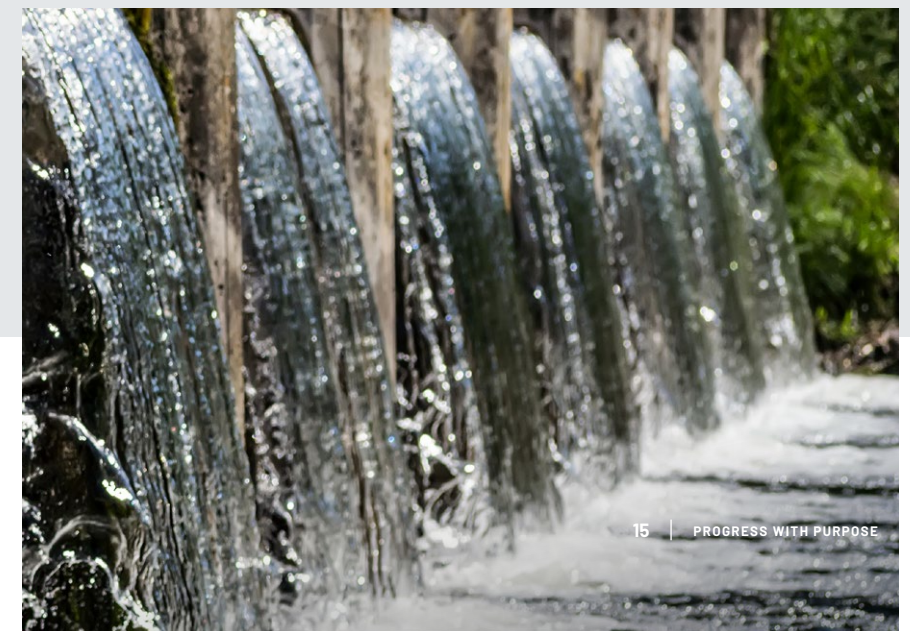
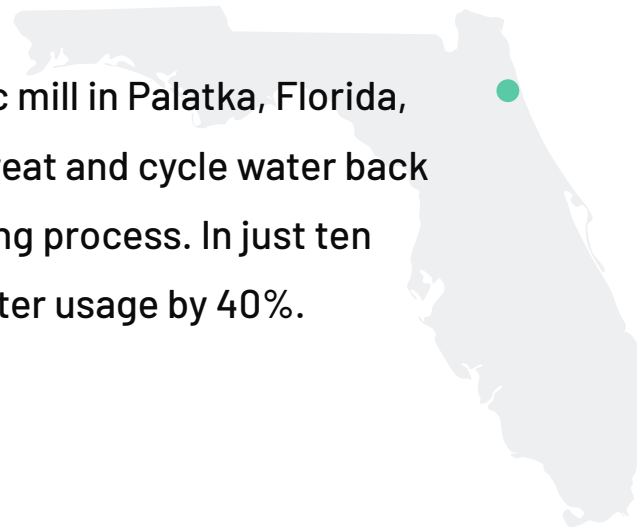
Water

Only about 12% of the water at our mills is consumed during the pulp and papermaking process. Most is recycled, treated to remove contaminants, and returned to its original source. We conduct wastewater discharges in compliance with U.S. Environmental Protection Agency and state standards.



DID YOU KNOW?

The Georgia-Pacific mill in Palatka, Florida, built a solution to treat and cycle water back into the papermaking process. In just ten days, it reduced water usage by 40%.

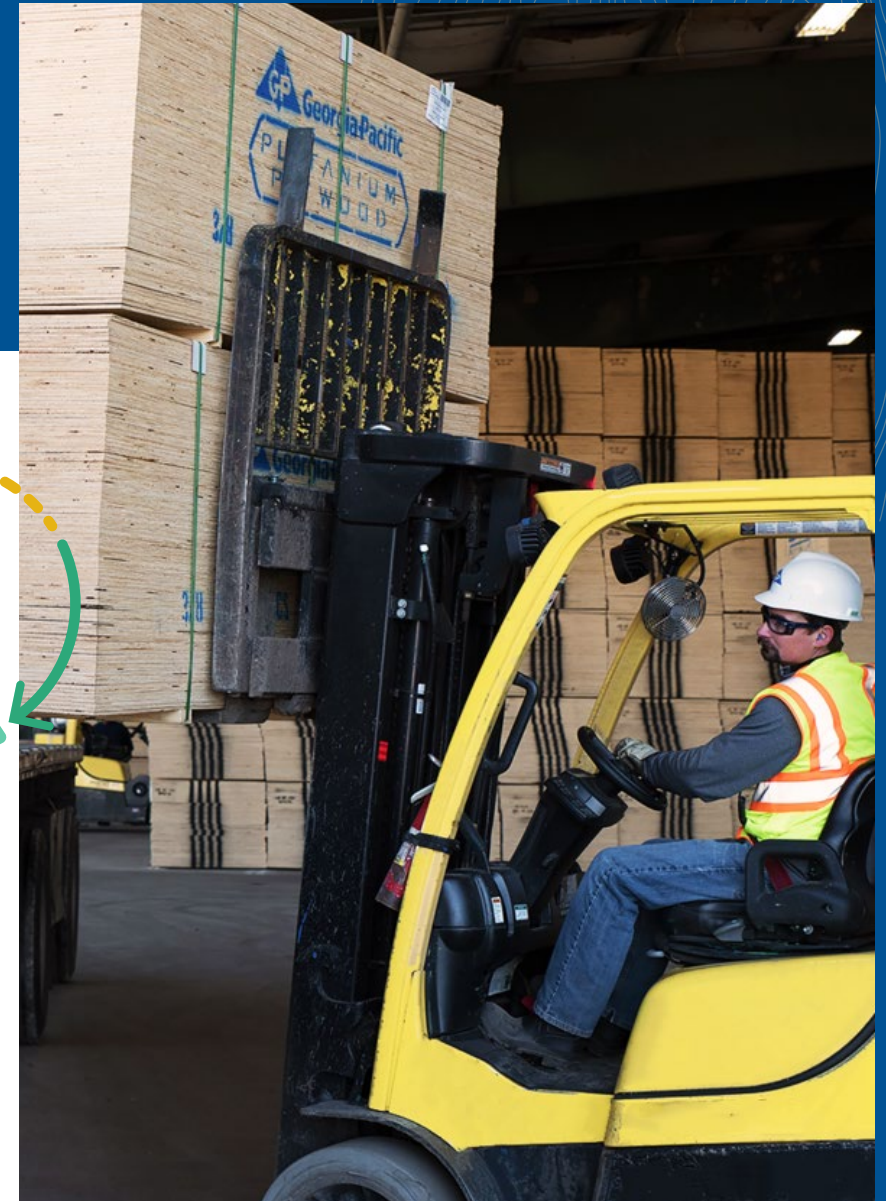


CONTRIBUTE

Sustainable products

Making a difference

Georgia-Pacific contributes products to society that people depend on each day. We choose materials responsibly and minimize the impact of our products in use. This includes building in options for recycling and composting. Our approach is to offer sustainable products for everyone.



Societal benefits

Our philosophy of mutual benefit helps generate breakthrough innovations to improve lives, deliver better products, and consume fewer resources.



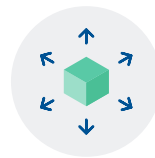
SHELTER

Building products essential to homes and workplaces.



HYGIENE

Bath tissue, paper towels, and ingredients used for diapers and other hygiene products.



CONVENIENCE

Quick transfer of goods for foodservice and other industries.



PRODUCT PROTECTION

Paper-based packaging transports goods to stores and homes, supporting the economy.

Brand stewardship

In 2018, we launched Aria®, a premium bath tissue brand that combines quality and sustainability. With a proprietary technology, we efficiently recycle water and remove a portion of it before drying. The process helps us offset the GHG emissions from purchased electricity used during manufacturing with renewable energy credits. According to an assessment conducted in 2017, this technology is less energy-intensive on a per usage basis when compared to through-air-dried technology.



Environmental impact indicators as defined by the International Standards Organization*:

21% less primary energy demand

12% lower global warming potential

* Compared to other premium 2-ply tissue papermaking technologies



GP Recycling

One of the largest pure traders of recycled fiber in the world.

INNOVATIONS

Paper-padded mailers

Our curbside recyclable padded-paper mailers, popular for e-commerce, are an alternative to nonrecyclable dual-material packaging.

Curbside recycling

Georgia-Pacific is working to increase paper cup recycling by investing in recycling infrastructure and partnering with municipalities and the Foodservice Packaging Institute to improve participation.

Ecosmart™

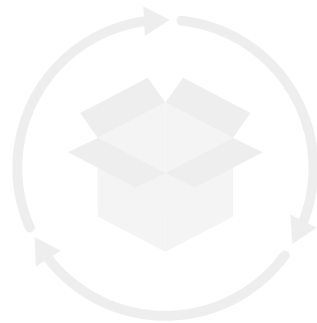
This Dixie® line of paper cups, plates, and bowls is made from fibers of old corrugated containers and is recyclable after use.

Maximize resource value

Paper fibers are recyclable, and we continue to explore new ways to efficiently use recovered fiber.

Circular success

Corrugated containers have the highest recovery rate for recycling of any paper-based commodity. According to the American Forest & Paper Association, the corrugated containers recovered for recycling during the past three years was more than 92% of the total produced during that time.



Recycling the Right Way



MIXED PAPER

Our ability to process mixed paper for consumer products has **increased by 50%**.



RECYCLED FIBER

GP Recycling is one of the world's largest buyers and sellers of recycled fiber. Annually shipping approximately 5 million tons of wastepaper, post-industrial/consumer resins, and other recyclables.



Juno Waste Diversion Solutions

In an effort to divert paper waste from landfills and capture more fiber for reuse, Georgia-Pacific developed a recycling innovation. Juno® Technology sanitizes commercial waste, recovering paper, plastics, and metals. The first unit at our Toledo, Oregon, paper mill is expected to process 70,000 tons of waste annually.

UP TO 90% of waste processed by Juno® Technology is recovered and recycled.

ONE TON of waste processed at Juno facility represents a net reduction of up to one ton of CO₂ emissions.



CONNECT

Breaking Down Barriers

Our work goes beyond business

We believe in people and seek a system of equal rights and mutual benefit, where individuals succeed by helping others succeed. That's why we have deep, long-standing relationships with numerous organizations and communities to remove barriers that hold people back.



Social responsibility

We contribute to philanthropic and societal goals by engaging in and supporting volunteerism as well as responsible and ethical practices. Our aim is to celebrate the uniqueness of each individual and create an environment where all people have the opportunity to develop their talents and abilities. We strive to treat everyone with dignity and respect, encourage and foster networking, and sponsor activities that are inclusive and focus on shared interests.

Public spaces

Providing equitable access to public spaces helps people participate in shared experiences and build community. From ballfields and butterfly sanctuaries to parks and playgrounds, we provide areas across the U.S. where people can gather together.

[Learn more.](#)

Mattie Freeland Park

Completed in summer 2021 and funded in part by GP, this previously abandoned lot near downtown Atlanta is now revitalized as a public multiuse playing field, picnic, and grilling area.

Learn more about how
Georgia-Pacific supports
green spaces.

 WATCH VIDEO



Mattie Freeland Park



Education

Every child should have equal access to a quality education. We help narrow the opportunity gap in America's underserved communities, focusing on STEM programs, technical/trade programs, and getting teachers the right resources. That's why we partner with Kids in Need to help nearly 205,000 teachers and more than 5 million students across the country each year. [See our support.](#)

205,000
Teachers

5 Million
Students

Learn more about how Georgia-Pacific supports education.

 **WATCH VIDEO**

Philanthropy

We provide opportunities that enable employees to make a positive difference in their communities based on what is important to them.

First responders and disaster relief

Georgia-Pacific partners with Convoy of Hope, an international humanitarian organization, to supply products such as bath tissue, paper towels, and tableware in places affected by natural disasters.

In 2006, we launched our Bucket Brigade program to help support local fire departments and the brave men and women who keep our communities safe.



MORE THAN \$2.7 MILLION

contributed to purchase coats, boots, safety gear, and equipment for fire departments within 30 miles of GP facilities.

Health

We work with organizations that reduce disparities to health equity. Our team also raises awareness and participates in fundraising opportunities to support Susan G. Komen and breast cancer research. Georgia-Pacific has contributed more than \$6 million since 2006.



Breaking barriers

Georgia-Pacific embraces equal rights as values critical to the success of our business and communities. We are doing our part to help break down barriers in racial justice, our criminal justice system, and small business licensing.

We have a long history of supporting the civil rights movement. Among others, our partnerships include The King Center, National Center for Civil and Human Rights, The National Council of Negro Women, and 100 Black Men of America. We support their focus on STEM, financial literacy, economic stability, entrepreneurship, youth leadership mentoring programs, and social justice initiatives.

All Georgia-Pacific employees have been invited to participate in our "Starting the Conversation" series and related training sessions to discuss important topics like unconscious bias, criminal justice reform, mental health, social injustice, the opioid crisis, LGBTQ+ community, and women's history.

Housing

Georgia-Pacific provides funds and products that support individuals and their families in need of shelter. We also team up with Habitat for Humanity to construct homes and provide resources for qualified, hardworking families.

Learn more about Georgia-Pacific's Diversity & Inclusion efforts.

[WATCH VIDEO](#)



National Center for Civil and Human Rights in Atlanta, GA



Awards and recognition

We appreciate the recognition we've received from local and federal government agencies, non-governmental organizations and customers, and are especially proud of the Georgia-Pacific employees who helped make these awards possible.

LRC Energy Star



The Leaf River cellulose mill in New Augusta, Mississippi, became the first U.S. pulp mill to earn the EPA's ENERGY STAR® certification in 2020, signifying the manufacturing facility performed in the top 25% of similar facilities

nationwide for energy efficiency this year. The Georgia-Pacific mill in Brewton, Alabama, also earned the award in 2022.

EPA SmartWay



For the fourth year in a row, GP and KBX Logistics were awarded the EPA SmartWay Excellence Award for their innovations in streamlined shipping efficiency. The two companies continue to collaborate on improving practices

in intermodal shipping, load capacity, and backhauls.

American Forest & Paper Association



Georgia-Pacific was recognized by the American Forest & Paper Association with Sustainability Award winners:

Energy Efficiency - for Quilted Northern Ultra Soft & Strong®, which saves 30% more water and uses 30% less

energy by using efficient manufacturing technology to squeeze more water from tissue paper before drying.

Innovation - Partnering with a major online retailer, GP developed a paper-based mailer that is curbside recyclable. The company also introduced Dixie® ecosmart® 100% Recycled Fiber Hot Cups - America's first hot cup made from 100% post-consumer recycled fiber. GP is also working to increase paper cup recycling by investing in recycling infrastructure and working with municipalities to increase acceptance of paper cups to curbside recycling programs.

Certifications

Many Georgia-Pacific products and facilities are recognized and/or certified by these third-party groups:



FSC Chain of Custody



SFI Certified Sourcing



SFI Chain of Custody



PEFC Chain of Custody



LEED



ECOLOGO



Green Seal



BPI Compostable



USDA BioPreferred Program



Wildlife Habitat Council



UL Responsible Sourcing



GreenGuard



Certified Recycled Content SCS Global Services



International Sustainability and Carbon Certification



Juno™ Fiber Certified

U.S. Environmental Protection Agency Honors

2 CERTIFIED PLANTS



The energy performance of industrial facilities is compared nationally to similar operations. Only the top 25% become certified.

5 TOP PROJECTS



Business initiatives that demonstrate leadership and commitment to reducing emissions and meeting EPA energy design criteria are eligible for ENERGY STAR® recognition.

7 CHALLENGE AWARDS



ENERGY STAR® Challenge for Industry is a global initiative for industrial sites to reduce their energy intensity by 10% within five years.

Words from our leadership team



“Georgia-Pacific comes together as one company: a wide-ranging and evolving community of people working together. Diversity in experience, thought, and perspective makes GP a more innovative place. Ensuring everyone brings their uniqueness to the company is critical to our success. Many different people, but we are one GP.”

Julie Brehm,
SVP, Human Resources



“Georgia-Pacific products are part of everyday life. And while they fill a diverse range of home, commercial, and industrial needs, they have one thing in common: They’re all made to high standards of quality and safety. Our 30,000 employees around the world are always looking for better ways of doing things.”

Dawn Wurst,
SVP, Health & Safety



CLOSING THOUGHTS

Responsibility is our highest priority



A message from Christian Fischer, CEO

Every day, we work to create more value, using fewer resources than the day before. We do it by managing our resources in a way that benefits our customers, employees, partners, community members, and society, with a philosophy of mutual benefit. With more than 180 locations, we're one of America's largest manufacturers. To stay in business for the long term, we must constantly improve and innovate – both in the products we make and how we make them. We look forward to what the future holds.

