HELPING IMPROVE QUALITY OF LIFE

GEORGIA-PACIFIC SUSTAINABILITY HIGHLIGHTS
At Georgia-Pacific, we believe the role of business in society is to help people improve their lives by providing products and services they prefer, while using fewer resources over time. We do this by incorporating sustainability into our company culture and business decisions.
SUSTAINABILITY IN ACTION

INNOVATING RESPONSIBLE SOLUTIONS

Built-In Protection

Georgia-Pacific’s ForceField® air and water barrier system helps builders reduce construction time while protecting homes from the elements. ForceField® combines wood sheathing panels and a weather barrier in one product. By eliminating the extra step of applying the weather barrier, builders can save up to 37 percent on their installation time, which results in lower labor and installation costs. The proprietary overlay on the wood sheathing panels — sealed with ForceField seam tape — helps keep moisture out and helps prevent air from getting in, translating to a better protected and more energy-efficient home.

Reducing Waste — One Napkin at a Time

Often the most effective way to reduce waste is to avoid creating it in the first place. GP PRO’s Dixie Ultra® SmartStock® Automated Napkin System for limited-service restaurants shows how. The system is designed to cut napkin usage rates by 40 percent* by controlling the number of napkins dispensed. In addition, the napkins themselves take up less space than a full-fold napkin, so restaurant operators need less room to store them. The size of the napkin and the dense pack design mean more cases can fit on a truck. Because the equipment drives lower usage, the result is the same number of customers can be served by 45 percent fewer truckloads of napkins.** A bonus — since there’s no need to touch other napkins or grab the machine when used, it helps reduce the spread of germs.

On a Mission to Make a Better Toilet Paper

In 2017, Georgia-Pacific’s consumer products business set out to develop a premium toilet paper that did more for the environment. Aria™ is a new generation of toilet paper that combines premium quality with sustainability. From materials to manufacturing, we held ourselves to a higher standard to give consumers the high-quality performance they require while giving back to the planet.

Aria tissue is made at GP’s Port Hudson, La., mill using a proprietary manufacturing technology that creates soft and thick toilet paper while being energy- and water-efficient, with all energy used coming from 100 percent renewable biomass power. For its materials, the Aria brand not only plants three trees for every one used, but it also uses locally and sustainably sourced trees and plant-based packaging (51 percent bio-based materials) to reduce its environmental footprint.

Building Better Boxes

Georgia-Pacific’s packaging business is a major supplier of corrugated boxes used in e-commerce. A major challenge is designing boxes to fit specific products efficiently without wasted space and materials that add to shipping costs. To help develop responsible packaging for e-commerce and other customers, GP’s Innovation Institute created CubeLogic™, an algorithm that analyzes a customer’s order data and distribution capabilities to determine the best numbers and sizes of inventory boxes, saving both money and resources.

*When switching from a 13x12 full-fold napkin to a SmartStock® napkin in a limited-service restaurant

**Distribution model assumes full truckloads of prior and new napkin
INVESTING IN OUR COMMUNITIES

In 2017, Georgia-Pacific invested more than $10.5 million in our communities, including in-kind donations of our products.

GP Bucket Brigade

For more than a decade, Georgia-Pacific has been providing support to fire departments that serve our facility communities across the country. In 2017, Georgia-Pacific awarded nearly $190,000 in grants for critical fire safety equipment to 40 fire departments. Since 2006, we have given more than $2.2 million in cash and educational materials to 287 fire departments nationwide.

Convoy of Hope

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 2017, GP provided nearly 40 truckloads of products to help hurricane, earthquake and wildfire victims.

MANAGING RESOURCES WISELY

Recycling by the Numbers

GP Harmon Recycling, a Georgia-Pacific subsidiary, plays an important part in keeping paper and other materials out of landfills. GP Harmon purchases more than 6 million tons of recovered paper annually. About 2 million tons goes to Georgia-Pacific mills where it’s made into tissue and towel products, office paper, containerboard and corrugated boxes. The rest is sold to other manufacturers in the United States and worldwide. GP Harmon Recycling collects other recyclables as well, managing more than 130,000 tons of non-paper recyclable material annually, including pill bottles, x-ray film, shrink wrap, plastic garment hangars, and metals such as aluminum and steel.

Putting Waste to Work

Georgia-Pacific strives to reduce the amount of waste generated by our manufacturing processes. For residual waste that can’t be eliminated, we look for ways to put it to good use. GP facilities have worked with manufacturers and other third parties to turn residual pulp fiber into animal bedding and molded coffee cup trays; and wood waste into garden mulch, topsoil and soil amendments. In 2015, GP beneficially used twice as much waste as we sent to landfills.
GP PERFORMANCE

SAFETY

Total Case Incidence Rate (TCIR)
TCIR is the number of recordable incidents per 100 full-time employees during a given time period.

- **2015**: 1.63
- **2016**: 1.89
- **2017**: 1.96

ENVIROMENTAL

This diagram shows changes in Georgia-Pacific's environmental performance in key areas from 2009 to 2015.

ENERGY

Energy Management: Our Goal
GP strives to be a leader in managing its energy use and continuing its use of renewable energy in its complex manufacturing processes. GP is committed to using energy economically and decreasing the intensity of purchased energy (non-biomass) and associated greenhouse gas emissions in its operations.

Energy Use by Source
*(as a percentage of total energy consumption)*
Georgia-Pacific's largest energy source is biomass — wood fiber, bark and other organic materials. We have used these materials for many years to help power our wood and paper manufacturing facilities.

<table>
<thead>
<tr>
<th>Year</th>
<th>Biomass</th>
<th>Fossil Fuel</th>
<th>Purchased Electricity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>56%</td>
<td>38%</td>
<td>6%</td>
</tr>
<tr>
<td>2012</td>
<td>61%</td>
<td>33%</td>
<td>6%</td>
</tr>
<tr>
<td>2015</td>
<td>58%</td>
<td>35%</td>
<td>7%</td>
</tr>
</tbody>
</table>
SUSTAINING OUR FORESTS

Although Georgia-Pacific doesn’t own any timberlands, we take steps to assure our customers and consumers that we are responsibly sourcing wood and fiber for our operations. This includes building relationships with our suppliers and knowing, down to the county level, where they are sourcing fiber. We incorporate our responsible sourcing expectations into the contracts we use to purchase wood and fiber.

We also support sustainable forestry practices such as fiber sourcing and chain of custody certifications and controlled wood risk assessments.

Another part of our commitment to sustainable forestry includes working to protect forests with high conservation value (including endangered forests and special areas) and maintaining natural hardwood forests, which can be vulnerable to conversion to pine forests.

WHERE WE’RE GOING

Goals for a Sustainable Future

As a member of the American Forest & Paper Association, Georgia-Pacific participates in the association’s Better Practices, Better Planet 2020 initiative. This initiative includes one of the most extensive and quantifiable sets of sustainability goals of any major manufacturing industry in the United States. Goals include increasing paper recovery for recycling; improving energy efficiency; reducing greenhouse gas emissions; increasing the amount of certified fiber procured; improving our safety incident rate with a vision of zero injuries; and reducing water use.

For more information about Georgia-Pacific and sustainability, please visit www.gp.com/sustainability