



Our operations
and processes
are driven by
**environmental
responsibility**
and **respect** for
our communities.

Foundation of Our Commitment

Our environmental platform is built around a solid infrastructure and continued reinvestment into our business.

Environmental sustainability plays an important role in our operations and processes.

We have established the supporting framework to bolster our belief in rigor, continuous improvement and transparency, aggressively tackling initiatives that push us to the forefront of environmental responsibility in our manufacturing.

- Meets comprehensive program standards for:
 - ISO 14001 Environmental Management System (EMS)
 - Sustainable Forestry Initiative® (SFI®)
 - Forest Stewardship Council® (FSC®) certified by Rainforest Alliance
- Increased beneficial reuse rate by diverting solid process waste into energy production, composting and other value-added raw materials
- Expanded production of renewable thermal energy while reducing electrical consumption
- Reuse of water saves a million gallons a day (enough to fill one and a half Olympic-size swimming pool)
- Partnered with community to implement odor reduction technology

Aggressive Energy Initiatives

Optimization of energy usage is our priority, pushing towards self-sufficiency and the reduction of fossil fuel utilization.

Minimizing waste and conserving our resources is a priority. Our cogeneration plant and recovery boiler primarily use carbon-neutral biomass and liquor to generate steam to power our mills. As a result, we continue to reduce greenhouse gas emissions annually.

Our operations teams work to reduce the production of solid waste and the usage of water and electricity, and seek innovative ways to recover heat and energy.

- Operate our boilers oil-free during normal production
- Derive 82% of our energy from carbon-neutral sources, up from 73% in 2006
- Divert 96% of our solid process waste from landfills, utilizing for energy production, composting, and to augment crop farming
- 64% GHG reduction since 2006

Sustainable Paper Portfolio

It is critical to deliver paper product options engineered with responsibly sourced materials.

Customers can buy with confidence knowing our papers provide choices in fiber certification and recycled content. All of our products are certified to third party program standards, ensuring they are sourced responsibly throughout the supply chain.

We continue to expand our use of recycled fiber as we increase the amount of post-consumer waste we can process — up to 100% as our customers demand. And, once we make the product, our responsibility isn't finished.

- Procure fiber from controlled or certified wood sources
- Utilize environmentally-safe Elementally Chlorine Free (ECF) technology to bleach pulp
- All of Twin Rivers' papers, pulp and lumber operations are certified to Sustainable Forestry Initiative® (SFI®) fiber sourcing program standards
- Forest Stewardship Council® (FSC®) chain of custody (FSC®) certified papers are available upon request
- Produce papers with up to 100% post-consumer waste upon request
- Ability to manufacture products using unbleached fiber
- Fluorochemical-free packaging paper options available

Sustainability is critical. We work continuously to **optimize our operations**, pursue **energy self-sufficiency** and offer **responsible product options**.

We are committed to remaining **reliable partners** with our customers and **stewards of our environment**.

GREENHOUSE GAS (GHG) EMISSIONS

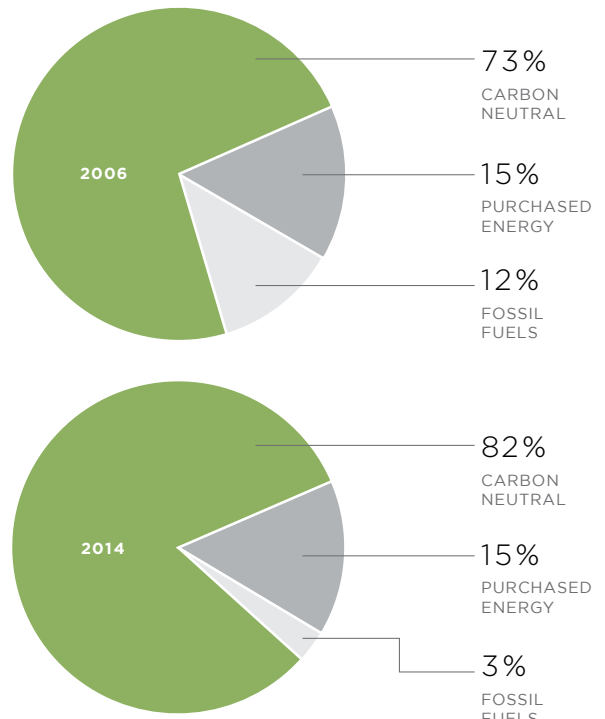
The decreased usage of fossil fuels has led to a significant reduction in greenhouse gases and our overall carbon footprint.

64%

GHG REDUCTION SINCE 2006!

USAGE OF CARBON-NEUTRAL ENERGY

We continue to increase the amount of energy derived from carbon-neutral energy sources such as biomass and liquor.



OPERATIONS ENVIRONMENTAL SUMMARY

Our environmental platform is thorough with sustainability initiatives woven through all aspects of our business.

| OPERATIONS | EMS | FIBER FROM CONTROLLED OR CERTIFIED SOURCES | BENEFICIALLY REUSED WASTE | FIBER CERTIFICATION | PRIMARY ENERGY SOURCE | RECYCLED CONTENT |
|--|--|--|---------------------------|---|---|----------------------------|
| PULP MILL: Edmundston, New Brunswick | ISO 14001:2004 | 100% | 92% | SFI [®] fiber sourcing procurement FSC [®] chain of custody | 82% carbon-neutral (biomass & liquor) | N/A |
| PAPER MILL: Madawaska, Maine | ISO 14001:2004 | 100% | 99% | SFI [®] fiber sourcing procurement FSC [®] chain of custody | 82% carbon-neutral (biomass & liquor) | up to 100% upon request |
| LUMBER MILL: Plaster Rock, New Brunswick | SFI [®] wood procurement and Heat Treating (HT) certifications | 100% | 94% | SFI [®] fiber sourcing procurement | 100% carbon-neutral (biomass) | N/A |



A Portfolio with Responsible Options

The need for sustainable papers is growing. Twin Rivers responds by continually **expanding** its **capability** and **offering**.

Sustainability Components

Fiber Bleaching

100% of our softwood pulp is manufactured using ECF bleaching process, recognized by the European Commission and U.S. Environmental Protection Agency as “Best Available Technology”.

Basis Weight

Using a lighter basis weight of paper decreases fiber volume, driving source reduction in packaging and printing applications.

Recycled Content

Manufacturing flexibility allows us to add 10%-100% post consumer waste fiber upon request, capitalizing on the volume of recovered paper in the waste stream.

Fiber Certification

Our operations follow rigorous program standards to attain third party fiber certification, ensuring our wood comes from sustainable sources.

Compostability & Recyclability

Our manufacturing process doesn't add anything that would impact the compostability or recyclability of our products, a key benefit of paper over other substrates.

Twin Rivers provides a line up of sustainable papers. Our capability includes papers made without the use of fluorochemicals; papers manufactured from natural pulp; and papers that are recyclable and compostable. All of Twin Rivers' papers are certified to Sustainable Forestry Initiative® (SFI®) fiber sourcing program standards. Forest Stewardship Council® (FSC®) chain of custody certified papers are available upon request.

Sustainable manufacturing is at the heart of our operations. We work continuously to optimize our mills, pursue energy self-sufficiency and reduce our carbon footprint.

Twin Rivers Certified and Recycled Papers

All of our papers are available with third-party fiber certification and recycled content ranging from 10%-100% upon request.

Publishing Papers

Border Brite®
 Bridge Supreme®
 Bridge Opaque®
 Custom Brite®
 Custom Plus®
 Custom Supreme®
 Enviro Kraft™ Envelope
 Frabrite® 72/76
 Frontier Opaque
 Frontier Supreme
 Hybrid Converting
 PharmBrite 92™
 Pharmopaque®
 Snowbrite Opaque®
 Snowbrite Pharm
 TR Converting
 Twin Rivers® Offset 100
 Twin Rivers Opaque®

Packaging Papers

Acadia®
 Acadia® Dairy Wrap
 Acadia® EcoBarrier
 Acadia® Extruding
 Acadia® Laminating
 Acadia® Lidding
 Acadia® MicroPop
 Acadia® Natural
 Acadia® Natural OGR
 Acadia® OGR
 Acadia® Waxing Base
 Bladepak®
 Bladepak® SR
 TR Specialty Bag

Label Papers

Alliance® Release
 Alliance® TT



The mark of responsible forestry



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