



J.D. IRVING, LIMITED

2024

ISO 14068-1

Carbon Neutrality Report
For Irving Tissue Products

EXECUTIVE SUMMARY



ISO 14068-1 CARBON NEUTRALITY EXECUTIVE SUMMARY

This executive summary report (**“Executive Summary”**) provides an overview of the ISO 14068-1 Carbon Neutrality Report for Irving Tissue Products (**“Full Report”**), which may be referenced at www.jdirvingsustainability.com.

SCOPE AND BOUNDARY OF THE SUBJECT

This Executive Summary is being issued by J.D. Irving, Limited (“Irving”) to describe the cradle-to-grave carbon footprint of all bathroom tissue, household towel, facial tissue, and napkin products collectively referred to as **“Tissue Products”**, including Royale®, Scotties®, and private label branded tissue products for the “at-home” use market manufactured by Irving’s affiliates Irving Consumer Products Limited (**“ICPL”**) and Irving Consumer Products Inc. (**“ICPI”**). This Executive Summary provides an overview of the carbon footprint of Tissue Products, including greenhouse gas (**“GHG”**) emissions and removals from material acquisition & pre-processing, production, distribution & storage, use, and end-of-life phases. More detailed information can be viewed in the Full Report at www.jdirvingsustainability.com.

ICPL and ICPI are part of the Irving affiliated corporations included within the **“Forest Supply Chain”**¹ referred to throughout this Executive Summary.

Further details regarding the activities of the Forest Supply Chain and its organizational carbon footprint can be found in the Climate, Conservation & Community Impact report and Technical Supplement to Carbon Footprint Disclosure for the Forest Supply Chain which are both available at www.jdirvingsustainability.com.

1] Includes operations wholly or partially in various Irving entities, including J.D. Irving, Limited, Irving Pulp & Paper, Limited, Irving Paper Limited, Irving Consumer Products Limited, Irving Consumer Products, Inc., The New Brunswick Railway Company, Rothesay Paper Holdings Ltd., St. George Pulp & Paper Limited, St. George Power LP, Charlotte Pulp and Paper Co. Ltd., Miramichi Timber Holdings Limited, Allagash Timberlands LLC, Aroostook Timberlands LLC, Maine Woodlands Realty Company, and Irving Forest Products, Inc.

CARBON FOOTPRINT OF A PRODUCT REPORT

Table 1: Carbon Footprint of a Product Executive Summary Table

CFP Requirement	Description
Functional unit and reference flow	Kg CO ₂ e/ tonne (Tissue Product sales)
List of GHG accounted for	CO ₂ , CH ₄ , N ₂ O
Timing of GHG emissions and removals	January 2024 to December 2024 for the GHG emissions and removals in the Material Acquisition & Pre-Processing, Production, Distribution & Storage and Use stages. End-of-Life emissions extend beyond the reporting period but relate to products sold between January 2024 and December 2024.
Methodology	ISO 14067:2018 Greenhouse gases – Carbon footprint of products – Requirements and guidelines for quantification.
Treatment of electricity use	Location-based approach
Allocation procedures	Mass balance of primary forest products and semi-finished wood products that flow through the supply chain to Tissue Products
Time period Carbon Footprint of a Product “CFP” is representative	CFP accounting and verification is for the previous years' emissions and removals and is considered representative for two years after the year of verification with the assumption that there are no material changes in production over the two-year period following verification.
Materiality Criteria (cutoffs)	Emissions or removals greater than 1% representing 95% of total emissions or removals
Limitations	The CFP is limited by its focus on climate change and the inherent uncertainty in reporting GHG emissions and removals, which is affected by the methodologies, including limitations of the CBM-CFS3 forest carbon model, US EPA WARM model, assumptions, data quality, and exclusions. Refer to the “Uncertainty” section of the Full Report for assessment of how data quality affects the CFP.
Carbon footprint offset with credits	Not applicable
Type of credits purchased and retired to achieve carbon neutrality	Not applicable
Double counting	Double counting has been avoided with strong internal controls by Irving.
Carbon Neutrality verified at a limited level of assurance by:	KPMG Performance Registrar Inc.
Verification date:	October 17, 2025
Link to the full ISO14068-1 Carbon Neutrality Report for Irving Tissue Products – 2024	www.jdirvingsustainability.com

2] The methodology for calculating removals changed in 2024 to a 5-year rolling average. Please refer to Methodology Change Section in full report.

SYSTEM BOUNDARY – CRADLE-TO-GRAVE

The cradle-to-grave boundary of Tissue Products has been determined in accordance with ISO14067:2018. A description of each phase, methodology, assumptions, exclusions, data quality, uncertainty, and references are detailed the Full Report.

TISSUE PRODUCT BOUNDARY - CRADLE-TO-GRAVE LIFE CYCLE

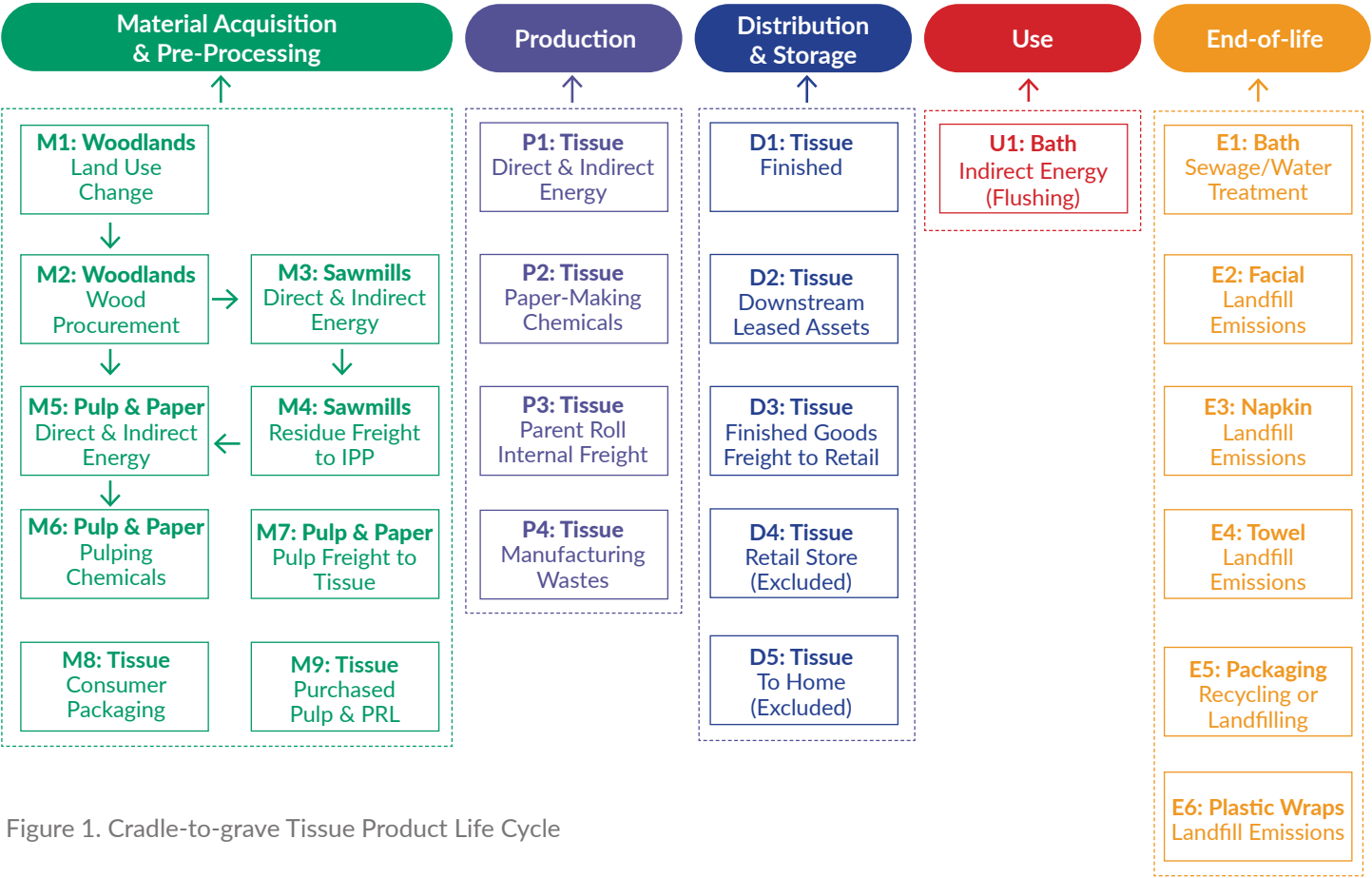


Figure 1. Cradle-to-grave Tissue Product Life Cycle



GREENHOUSE GAS EMISSIONS AND REMOVALS

Source	Tonnes CO ₂ e	Kg CO ₂ e /tonne	%
Material Acquisition & Pre-Processing	282,136	755	29%
Production	482,695	1,292	50%
Distribution & Storage	68,224	183	7%
Use	2,732	18	0%
End-of-Life	131,029	351	14%
Aircraft Transportation	0	0	0%
Net Fossil Fuel Emissions & Removals	966,816	2,599	100%
Land Use	(1,130,975)	(3,027)	
Direct Land Use Change (dLUC)	0	0	0%
Carbon Footprint of the Product	(164,159)	(439)	

Table 2: Greenhouse Gas Emissions and Removals by Life Cycle Stage

CARBON NEUTRALITY MANAGEMENT PLAN

The organizational Carbon Neutrality Management plan has a high level of ambition extending beyond the carbon neutrality of Tissue Products with a commitment to maintain carbon neutrality for the entire Irving Forest Supply Chain. Organizational Carbon neutrality is achieved from forest removals from Irving private forest lands and the transfer of carbon from living trees into harvested wood products.

Organizational carbon neutrality will be maintained by continuing with:

- Responsible, long-term management of the forest in a way that ensures that growth exceeds harvest and carbon removal exceeds emissions. This includes efficient harvesting and processing of wood products which transfers carbon from living biomass into harvested wood products that store carbon for an additional period. Responsible long-term forest management includes forest inventory, forest growth and yield modeling, control of annual harvest levels, production of genetically improved and well adapted local seedlings, reforestation activities such as tree planting and tending, and forest protection activities.
- Continuous improvement initiatives focused on productivity and energy efficiency in manufacturing and transportation.
- Major capital investments to reduce energy costs and GHG emissions.

CARBON NEUTRALITY PATHWAY

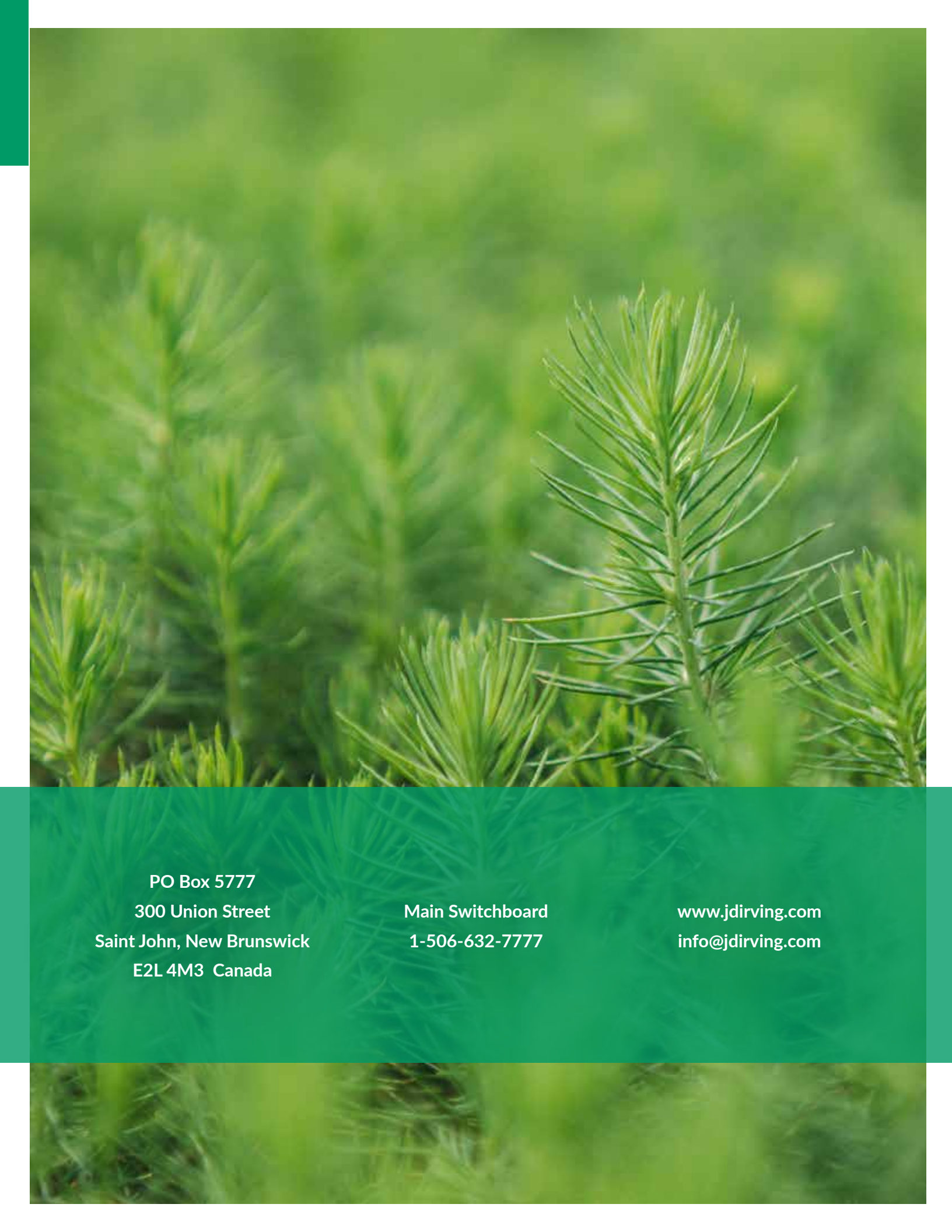
To be the most useful for the intended end users, the organizational Carbon Neutrality Management Plan results in a Carbon Neutrality Pathway for the organization that maintains carbon neutrality and has been forecasted until 2030. This commitment to carbon neutrality is expected to continue beyond 2030 due to the organization's long-term focus on increasing forest growth above the rate of harvest.

The demand for forest products from responsibly managed forests continues to grow with population. Major capital investments will slow the rate of absolute increases in fossil fuel emissions associated with manufacturing and distribution, however absolute emissions are expected to continue to increase with business growth. Therefore, both absolute and intensity-based tracking are used to ensure that energy use efficiency and productivity gains are captured on an emissions per tonne basis.

The Carbon Neutrality Pathway is based on maintaining organizational carbon neutrality and reducing GHG emissions on an emissions intensity basis (Kg CO₂e per tonne of output). The forecasted emissions intensity is compared to an internationally recognized pathway of less than 2°C warming following the IPCC AR6 WG3 methodology. This pathway requires a 2.5% emissions reduction per year.

For more information on the organizational Carbon Neutrality Management Plan and the Carbon Neutrality Pathway, please reference the Full Report.





PO Box 5777
300 Union Street
Saint John, New Brunswick
E2L 4M3 Canada

Main Switchboard
1-506-632-7777

www.jdirving.com
info@jdirving.com