2021 CANFOR SUSTAINABILITY DATA PACK

Canfor's 2021 Sustainability Data Pack summarizes the performance data for the reporting year ending December 31, 2021, unless otherwise stated. Where possible, historic data has also been summarized based on information reported in our 2020 Sustainability Report.

The scope of this data pack covers Canfor Corporation and Canfor Pulp Products Inc. (Canfor Pulp), including all consolidated subsidiaries (hereinafter referred to as "Canfor" or "the Company"). This data pack also includes data of controlled subsidiaries on a 100% ownership basis (e.g., for a 51%-owned entity, we report 100% of the data) for the reporting period.

However, unless otherwise stated, the data pack excludes:

- Canfor's 70%-owned subsidiary Vida group (Vida); instead, see Vida's 2021 Sustainability Report
- Canfor's 60% interest in Houston Pellet, Inc. (HPLP)
- Millar Western Forest Product Ltd.'s solid wood operations and related data, as the acquisition was completed on March 1, 2022
- Canfor's associates or investments

Certain comparative amounts for prior years have been reclassified or restated to conform with updated reporting criteria. If prior years' data is restated, it will be indicated within this document as footnotes.

Data is reported using the metric system and in Canadian dollars unless otherwise stated.

The figures are unaudited and subject to restatement in future years as methodology changes or as more accurate data becomes available.

This Sustainability Data Pack is supplementary to our full 2021 Sustainability Report which can be found at https://sustainability.canfor.com/. Past sustainability reports, are available on our website.

The 2021 Sustainability Report is part of Canfor's annual reporting suite, which includes the following documents:

Canfor	**Canfor Pulp**
2021 Annual Report	2021 Annual Report
Annual Information Form	Annual Information Form
Information Circular	Information Circular

As we continue our sustainability journey, we welcome your feedback and suggestions at info@canfor.com.

Last updated: June 30, 2022

SAFETY, HEALTH & WELLNESS

Performance

Year over Year Comparison of Safety Metrics

	2021	2020	2019	2018
Total Recordable Indicent Frequencies (TRIF)	**1.42**	1.62	1.54	1.42
Total Recordable Indicents	**88**	93	93	94
Total Fatalities	**1**	-	-	-
Total Hours Worked	**12,408,932**	11,503,262	12,086,627	13,240,986

Total Recordable Incident Frequencies (TRIF)[a]

Business unit	2021	2020	2019	2018
Wood Products Operations: Canada	**1.52**	1.76	1.64	1.67
Wood Products Operations: U.S.	**1.13**	1.60	1.39	1.48
Pulp Operations	**1.83**	1.36	1.59	0.71
Total	**1.42**	**1.62**	**1.54**	**1.42**

[a]Our targeted improvement is calculated on a three-year rolling average. To calculate TRIF, Canfor uses 200,000 hours worked. Incidents include work-related injuries. Our 2021 three-year average is based on average of 2018, 2019 and 2020 results. Canfor defines recordable incidents based on Manufacturing Advisory Group guidelines.

Total Recordable Incidents[b]

Business unit	2021	2020	2019	2018
Wood Products Operations: Canada	**37**	40	43	52
Wood Products Operations: U.S.	**29**	37	31	33
Pulp Operations	**22**	16	19	9
Total	**88**	**93**	**93**	**94**

[b]Current definitions for recordable incidents are calculated on the basis of the Manufacturing Advisory Group guidelines. Recordable incidents are defined as an injury to an employee on the job that results in receiving medical treatment (treatment beyond first aid and medical treatment administered by a physician or by a registered medical professional), lost time (any incident in which an employee loses one or more days of work due to occupational injury or illness) or medical treatment with work restrictions (incident that keeps an employee from performing one or more of the routine functions of their job for an extended period of time). For future reporting years, all Canfor operations will be aligning work-related injury definitions to reflect OSHA's Recordable Work-Related Injuries methodology, which may increase the number of recordable incidents.

Total Fatalities

Business unit	2021	2020	2019	2018
Wood Products Operations: Canada	**-**	-	-	-
Wood Products Operations: U.S.	**1**	-	-	-
Pulp Operations	**-**	-	-	-
Total	**1**	**-**	**-**	**-**

Total Hours Worked

Business unit	2021	2020	2019	2018
Wood Products Operations: Canada	**4,870,817**	4,542,551	5,245,833	6,251,549
Wood Products Operations: U.S.	**5,137,684**	4,611,475	4,457,742	4,445,151
Pulp Operations	**2,400,431**	2,349,236	2,383,052	2,544,286
Total	**12,408,932**	**11,503,262**	**12,086,627**	**13,240,986**

INCLUSION & DIVERSITY

Performance

Metric	2021
Under-represented groups* in executive leadership positions	17%
Under-represented groups in all other senior leadership positions	19%
Under-represented groups for new hires annually	24%
Completion of Inclusion & Diversity (I&D) awareness training for salaried employees across North America	94%
Completion of Indigenous Cultural Awareness and Understanding (ICAU) training for Canadian salaried employees	97%

* Under-represented groups include women, non-binary people, Indigenous Peoples, visible minorities, people living with disabilities, LGBTQ2S+ individuals and veterans.

2021 Workforce by Employment Type and Region[a]

Region	Hourly	Salaried	Temporary / Casual	Total
Canada	2,611	1,136	172	3,919
U.S.	1,741	363	1	2,105
Asia	-	17	-	17
Total	**4,352**	**1,516**	**173**	**6,041**

[a]Excludes Vida; includes casual/temporary employees.

Workforce by Employment Type and Gender[b]

Employment Type	2021			2020[c]			2019		
	Men	Women	Total	Men	Women	Total	Men	Women	Total
Full-Time Hourly	4,032	315	**4,347**	4,008	277	**4,285**	3,961	275	**4,236**
Full-Time Salaried	1,101	405	**1,506**	1,151	379	**1,530**	1,020	356	**1,376**
Part-Time Hourly	3	2	**5**	4	1	**5**	5	1	**6**
Part-Time Salaried	3	7	**10**	2	8	**10**	3	9	**12**
Temporary	94	79	**173**	78	50	**128**	85	47	**132**
Total	**5,233**	**808**	**6,041**	**5,243**	**715**	**5,958**	**5,074**	**688**	**5,762**

[b]Excludes Vida; includes casual/temporary employees.

[c]Prior year figures have been restated due to reclassification between employment types.

Total New Hires by Region, Age Group and Gender

2021[d]

Region	Women	Men	Total
Canada	**121**	**422**	**543**
Under 30	50	187	237
30-50	60	180	240
Over 50	11	55	66
U.S.	**68**	**834**	**902**
Under 30	19	311	330
30-50	35	382	417
Over 50	14	141	155
Total	**189**	**1,256**	**1,445**

[d]Excludes Vida, temporary and casual employees.

2020[e]

Region	Women	Men	Total
Canada	**60**	**257**	**317**
Under 30	32	123	155
30-50	19	99	118
Over 50	9	35	44
U.S.	**33**	**491**	**524**
Under 30	9	186	195
30-50	20	222	242
Over 50	4	83	87
Total	**93**	**748**	**841**

[e]Excludes Vida, temporary and casual employees.

Employees by Age Group and Gender as a %

2021[f]

Age	Women	Men	Total
Under 30	2.2%	13.1%	15.3%
30-50	5.9%	39.2%	45.1%
Over 50	4.3%	35.3%	39.6%
Total	**12.4%**	**87.6%**	**100%**

[f]Excludes Vida and casual/temporary employees.

2020[g]

Age	Women	Men	Total
Under 30	2.0%	13.0%	15.0%
30-50	5.3%	39.1%	44.4%
Over 50	4.1%	36.5%	40.6%
Total	**11.4%**	**88.6%**	**100%**

[g]Excludes Vida and casual/temporary employees.

Employees by Gender and Job Category as a %

2021[h]

Job Category	Women	Men	Total
Operations	5.5%	70.1%	75.6%
Operations Management	1.1%	8.8%	9.9%
Business Support	1.4%	0.4%	1.8%
Professional	3.0%	5.2%	8.2%
Professional Management	1.0%	1.0%	2.0%
Executives and Senior Management	0.4%	2.1%	2.5%
Total	**12.4%**	**87.6%**	**100%**

[h]Excludes Vida and casual/temporary employees.

2020[i]

Job Category	Women	Men	Total
Operations	5.0%	70.1%	75.1%
Operations Management	1.1%	9.7%	10.8%
Business Support	1.6%	0.5%	2.1%
Professional	2.7%	5.1%	7.8%
Professional Management	0.8%	0.9%	1.7%
Executives and Senior Management	0.4%	2.1%	2.5%
Total	**11.6%**	**88.4%**	**100%**

[i]Excludes Vida and casual/temporary employees.

Executives by Age Group and Gender as a %

2021

Age	Women	Men	Total
Under 30	0%	0%	0%
30-50	11.1%	5.6%	16.7%
Over 50	0%	83.3%	83.3%
Total	**11.1%**	**88.9%**	**100%**

2020

Age	Women	Men	Total
Under 30	0%	0%	0%
30-50	6.3%	31.2%	37.5%
Over 50	0%	62.5%	62.5%
Total	**6.3%**	**93.7%**	**100%**

Board of Directors by Company, Age Group and Gender as a %

2021

Company	Women	Men	Total
Canfor			
Under 30	0%	0%	0%
30-50	0.0%	7.7%	7.7%
Over 50	15.4%	76.9%	92.3%
Canfor Total	**15.4%**	**84.6%**	**100%**
Canfor Pulp			
Under 30	0%	0%	0%
30-50	0%	0%	0%
Over 50	14.3%	85.7%	100%
Canfor Pulp Total	**14.3%**	**85.7%**	**100%**

2020

Company	Women	Men	Total
Canfor			
Under 30	0%	0%	0%
30-50	0%	8.3%	8.3%
Over 50	16.7%	75.0%	91.7%
Canfor Total	**16.7%**	**83.3%**	**100%**
Canfor Pulp			
Under 30	0%	0%	0%
30-50	0%	0%	0%
Over 50	0%	100%	100%
Canfor Pulp Total	**0%**	**100%**	**100%**

INDIGENOUS RELATIONS

Performance

Metric	2021
Operating area covered by agreements with willing Nations	41%
Participation in Indigenous Cultural Awareness and Understanding (ICAU) training for Canadian salaried employees	97%
Total spend for Canadian wood products operations with Indigenous vendors	3.4%

COMMUNITY ENGAGEMENT

Performance

	In Canadian dollars (rounded)	Number of organizations supported
	2021	
Donations from Good Things Come From Trees	$ 1,800,000	310
Other Donations	$ 442,000	30

SUSTAINABLE FORESTRY

Performance

Metric	2021
Canada	
Percentage of Canfor-managed forests certified to SFI or FSC Forest Management Standards	100%
United States	
Percentage of certification to SFI Fibre Sourcing Standard for all sourced wood	100%
Percentage of willing land and woodlot owners that have SFI Forest Management Standard or American Tree Farm System certification	12%

Number of IUCN Red List Species and National Conservation List Species in Canfor-Managed Lands in Canada

Category	2021	2020
Extinct	**0**	0
Extinct in the Wild	**0**	0
Critically Endangered	**2** **- Suckley's cuckoo bumble bee,** **- alkaline wing-nerved moss**	2 - Suckley's cuckoo bumble bee, - alkaline wing-nerved moss
Endangered	**2** **- little brown bat** **- whitebark pine**	2 - little brown bat - whitebark pine
Vulnerable	**9**	11
Near Threatened	**8**	7
Least Concern[a]	**21**	23
Data Deficient[b]	**1**	1
Schedule 1 *Species at Risk Act (SARA)* Only[c]	**9**	Not reported for 2020

[a]For category "Least Concern", we disclosed only species that were found on both IUCN and Schedule 1 for national Species at Risk Act (SARA).

[b]The gypsy cuckoo bumble bee is considered 'Data Deficient' by IUCN and has not yet been assigned a ranking.

[c]An additional nine species with no assigned IUCN status are monitored by Canfor because they are on the Schedule 1 for SARA.

Number of U.S Fish & Wildlife Service Endangered Species in U.S Procurement Areas[d]

Category	2021
Endangered	**39**
Threatened	**26**
Candidate	**3**

[d]The listed data only implies that these endangered species are known to occur within each area's procurement region. It does not imply that the listed endangered species necessarily are found on any given tract that Canfor or its suppliers, are harvesting timber.

CLIMATE CHANGE

Performance

Year over Year Comparison of Overall GHG Emissions (tonnes of CO_2e)

	2021	2020
Scope 1	**790,461**	657,236
Scope 2 (location-based)	**86,368**	107,500
Scope 2 (market-based)	**498,389**	348,022
Scope 1 + 2 (location-based, non-biogenic emissions)	**876,829**	**764,736**
Scope 1 + 2 (market-based, non-biogenic emissions)	**1,288,850**	**1,005,258**
Biogenic emissions	5,517,034	4,060,866

2021 Scope 1 and 2 GHG Emissions[a,b,c,d,e,f] (tonnes of CO_2e)

	Pulp Operations	Wood Products Operations: Canada	Wood Products Operations: U.S.	Total
Scope 1	616,158	91,866	82,437	790,461
Scope 2 (location-based)	4,757	3,309	78,302	86,368
Scope 2 (market-based)	416,778	3,309	78,302	498,389
Scope 1 + 2 (location-based, non-biogenic emissions)	**620,915**	**95,175**	**160,739**	**876,829**
Scope 1 + 2 (market-based, non-biogenic emissions)	**1,032,936**	**95,175**	**160,739**	**1,288,850**
Biogenic emissions[g]	3,147,497	1,380,506	989,031	5,517,034

[a]Excludes Vida and Houston Pellet Limited Partnership (HPLP). Emissions associated with corporate offices are included in their corresponding business units. Woodlands emissions are included in Wood Products Operations - Canada.

[b]Scope 1 (direct) greenhouse gas emissions are emissions from energy sources that are owned or controlled by the company.

[c]Scope 2 (indirect) greenhouse gas emissions are emissions from the generation of purchased electricity consumed by the company. Scope 2 emissions physically occur at the facility where electricity is generated. Location-based Scope 2 reflects average emissions intensity of grids on which energy consumption occurs. Market-based Scope 2 reflects emission factors from contractual instruments, which includes power purchase agreements and any energy attribute certificates bought or sold. Canfor sells renewable energy certificates (RECs) and adds the equivalent amount of emissions based on the electrical grid where RECs are sold.

[d]Canfor's quantification methodology for our Scope 1 and Scope 2 emissions is aligned with the Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard.

[e]Emissions are stated in metric tonnes on a CO_2e basis, which is inclusive of greenhouse gases such as carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O) and hydrofluorocarbons (HFCs). It was determined that perfluorochemicals (PFCs), sulfur hexafluoride (SF_6) and nitrogen trifluoride (NF_3)

[f]Greenhouse gases were converted from individual gases into CO_2e using the IPCC Sixth Assessment Report (AR6) global warming potential values (GWP).

[g]Biogenic emissions increased from 2020 due to a change in methodology for estimating the amount of woodwaste for 2021 and use of the latest emission factors.

2020 Scope 1 and 2 GHG Emissions (tonnes of CO_2e)[h]

	Pulp Operations	Wood Products Operations: Canada	Wood Products Operations: U.S.	Total
Scope 1	497,470	92,522	67,244	657,236
Scope 2 (location-based)	5,775	4,368	97,357	107,500
Scope 2 (market-based)	246,297	4,368	97,357	348,022
Scope 1 + 2 (location-based, non-biogenic emissions)	**503,245**	**96,890**	**164,601**	**764,736**
Scope 1 + 2 (market-based, non-biogenic emissions)	**743,767**	**96,890**	**164,601**	**1,005,258**
Biogenic emissions	2,901,541	505,267	654,058	4,060,866

[h] Our prior year figures have been restated due to the review and refinement of our calculation methodology and assumptions, and to ensure consistency with current year comparatives. Market-based scope 2 values were not calculated for the Canadian and the U.S. wood products operations so they are stated to be the same as the location-based scope 2 emissions. The difference between scope 2 market-based and location-based emissions relates to the corresponding amount of renewable energy certificates sold to third parties.

Carbon Stored in Wood Products

Business Unit	2021 Stored Carbon[i]	2020 Stored Carbon
Wood Products Operations: Canada	**1,110,252 tonne C** **4,070,925 tonne CO_2e**	1,100,766 tonne C 4,036,144 tonne CO_2e
Wood Products Operations: U.S.	**725,000 tonne C** **2,658,332 tonne CO_2e**	684,297 tonne C 2,509,091 tonne CO_2e
Total	**1,835,252 tonne C** **6,729,257 tonne CO_2e**	1,785,063 tonne C 6,545,235 tonne CO_2e

[i] Tonnes of carbon is calculated based on the total quantity of lumber produced by our Canadian and U.S. operations only (excludes other wood products, pulp and paper, pellets) (in MMbfm) converted to density per the NCASI Carbon Storage Tool for softwood lumber. The carbon content of wood is 50% by weight. Conversion from carbon to CO_2e is calculated using the molecular weight ratio between CO_2 and C of 44/12.

Estimated Scope 3 Emissions[j]

Total Greenhouse Gas Emissions	
Scope 1	7%
Scope 2 (Location-Based)	1%
Scope 3 Category 1	17%
Scope 3 Category 9	11%
Scope 3 Cateogry 10	31%
Scope 3 Cateogry 12	26%
All Other Scope 3 Categories	7%

[j] Based on guidance from the Greenhouse Gas Protocol and resources from the National Council for Air and Stream Improvement (NCASI), we considered 15 categories of emissions that cover upstream and downstream activities. The estimation methodology made use of emission factors based on current literature and industry standards; some emissions were calculated as a function of production when actual data could not be collected by Canfor. In line with best practices, an uncertainty factor was applied when Canfor's own data could not be used, so the resulting scope 3 emissions may be an overestimation in some categories. For more details about our Scope 3 estimation, see page 109 of our Sustainability Report.

AIR QUALITY

Performance

Year over Year comparison of Air Emissions by Substance (tonnes)

Substance	2021	2020
Nitorgen Oxides (NO_x)	**3,160**	3,140
Sulphur Oxides ($SO_{x)}$	**3,314**	3,189
Particulate Matter	**2,326**	2,382

2021 Air Emissions by Business Units by Type (tonnes)[a,b,c]

Business Unit	Substance		
	NO_x	SO_x	PM
Wood Products Operations: Canada	656	33	602
Wood Products Operations: U.S.	614	72	553
Pulp Operations	1,890	3,209	1,171
Total	**3,160**	**3,314**	**2,326**

[a]Particulate matter emissions exclude road dust particulate emissions.

[b]We estimate NO_x and SO_x emissions based on the National Pollutant Release Inventory (NPRI) requirements for our pulp and wood products operations in Canada, and based on direct measurements as required by U.S. Environmental Protection Agency (US EPA) Title V guidelines for our operations in the U.S. The NPRI and US EPA have different reporting requirements and calculation methods. Information in this table may not reflect exactly the contents of NPRI and/or US EPA reports, due to different reporting definitions. Some air emissions are not directly measured but are monitored to maintain permitted levels using an estimation methodology informed by actual production quantities. We also monitor other air emissions, which vary based on permitted emissions for each location.

[c]Additional air emissions (such as volatile organic compounds (VOCs) and carbon monoxide (CO)) are reported separately through regulatory reporting.

2020 Air Emissions by Business Units by Type (tonnes)[d,e,f]

Business Unit	Substance		
	NO_x	SO_x	PM
Wood Products Operations: Canada	641	32	470
Wood Products Operations: U.S.	613	73	763
Pulp Operations	1,886	3,084	1,149
Total	**3,140**	**3,189**	**2,382**

[d]Particulate matter emissions exclude road dust particulate emissions.

[e]We estimate NO_x and SO_x emissions based on the National Pollutant Release Inventory (NPRI) requirements for our pulp and wood products operations in Canada, and based on direct measurements as required by U.S. Environmental Protection Agency (US EPA) Title V guidelines for our operations in the U.S. The NPRI and US EPA have different reporting requirements and calculation methods. Information in this table may not reflect exactly the contents of NPRI and/or US EPA reports, due to different reporting definitions. Some air emissions are not directly measured but are monitored to maintain permitted levels using an estimation methodology informed by actual production quantities. We also monitor other air emissions, which vary based on permitted emissions for each location.

[f]Additional air emissions (such as volatile organic compounds (VOCs) and carbon monoxide (CO)) are reported separately through regulatory reporting.

WATER MANAGEMENT

Performance

2021 Water Withdrawn (megalitres)[a]

Business Unit	Surface Water	Groundwater	Total
Wood Products Operations: Canada	167	260	**427**
Wood Products Operations: U.S.[b]	Not available	Not available	**Not available**
Pulp Operations	99,202	547	**99,749**
Total by source	**99,369**	**807**	**100,176**

[a]Data not available for all operations for water discharged and consumed. Water withdrawn data is not currently available for our U.S. wood products operations, our two Canadian pellet plants and one Canadian sawmill. We have estimated water withdrawn based on water permits, invoiced estimates or utility metre readings where available. We are working on improving our data collection by installing flow metres for future reporting.

[b]Water withdrawn for our Pulp Operations is based on utility meter readings, but for one pulp mill, volumes have been estimated based on last year's water intensity per unit of production, as metre data was not available.

2020 Water Withdrawn (megalitres)[c]

Business Unit	Surface Water	Groundwater	Total
Wood Products Operations: Canada	**Not available**	**Not available**	**Not available**
Wood Products Operations: U.S.[b]	**Not available**	**Not available**	**Not available**
Pulp Operations	**80,934**	**11,329**	**92,263**
Total by source	**80,934**	**11,329**	**92,263**

[c]This data was included in text in our 2020 sustainability report and not in table format. Data has been reformatted for year over year comparisons in the future.

WASTE MANAGEMENT

Performance

2021 - Total Waste Generated, Diverted from Disposal and Directed to Disposal - Wood Products Operations (tonnes) [a]

2021 Total Waste Generated - Wood Products Operations[b]

Waste Composition	Waste Diverted from Disposal	Waste Directed to Disposal	Total Waste Generated
Non-hazardous	4,678,418	875,278	**5,553,696**
Hazardous	-	662	**662**
Total	**4,678,418**	**875,940**	**5,554,358**

[a]All waste data is collected in either oven-dried tonnes or tonnes. For the purposes of reporting, we have conservatively reported all amounts in tonnes. For Canadian wood products operations, waste data includes a blend of estimate and actuals.

[b]Data for waste generated by our U.S. wood products operations is incomplete at this time and only includes amounts related to residuals recovered for value-added products and biomass incinerated for energy recovery. It does not include hazardous and non-hazardous waste that is landfilled, recycled or recovered for beneficial use.

2021 Waste Diverted from Disposal - Wood Products Operations

Waste Composition	Recovery Type	On-site	Offsite	Total
Non-Hazardous	Other Recovery Operations: Residuals Recovered for Value-added Products[c]	3,828,736	807,129	**4,635,865**
	Recovered in Beneficial Use Programs[d]	34,732	6,187	**40,919**
	Recycling	-	1,634	**1,634**
Total Waste Diverted from Disposal		**3,863,468**	**814,950**	**4,678,418**

[c]Residuals recovered for value-added product are shavings, trim block, sawdust, chips and wood waste. They are generated by the lumber manufacturing process and recovered for use in manufacturing pulp or as fuel in our pulp operations, or they are diverted from disposal for use in other beneficial ways. See more in our Residuals Management section.

[d]Log yard debris, gravel and ash that is recovered for beneficial use through Canfor's beneficial use programs on-site and offsite. It does not include fines that were recovered as part of the beneficial use programs that have not been landfilled or processed. Fines are currently stored on site as we explore recovery options.

2021 Waste Directed to Disposal - Wood Products Operations

Waste Composition	Disposal operation	On-site	Offsite	Total
Non-Hazardous	Landfilled	25,717	2,835	**28,552**
	Incinerated (with Energy Recovery)[e]	846,726	-	**846,726**
Total Non-hazardous Waste Directed to Disposal		**872,443**	**2,835**	**875,278**
Hazardous	Disposed[f]	-	662	**662**
Total Waste Directed to Disposal		**872,443**	**3,497**	**875,940**

[e]Residuals incinerated represents bark and hog recovered for energy. See more in our Residuals Management section.

[f]Hazardous waste consists of small amounts of waste oil that is transported to licensed third parties for proper and safe disposal.

2021 - Total Waste Generated, Diverted from Disposal and Directed to Disposal - Pulp Operations (tonnes) [g]

2021 Total Waste Generated - Pulp Operations

Waste Composition	Waste Diverted from Disposal	Waste Directed to Disposal	Total Waste Generated
Non-hazardous	18,534	421,674	**440,208**
Hazardous	-	197	**197**
Total	**18,534**	**421,871**	**440,405**

[g]All waste data is collected in either oven-dried tonnes or tonnes. For the purposes of reporting, we have conservatively reported all amounts in tonnes. Waste data includes a blend of estimate and actuals.

2021 Waste Diverted from Disposal - Pulp Operations

Waste Composition	Recovery Type	On-site	Offsite	Total
Non-hazardous	Other Recovery Operations: Residuals Recovered for Value-added Product[h]	-	18,507	**18,507**
	Recycling	-	27	**27**
Total Waste Diverted from Disposal		**-**	**18,534**	**18,534**

[h]Residuals recovered for value-added product includes sludge collected from our operations and sold to external third parties. See more in our Residuals Management section.

2021 Waste Directed to Disposal - Pulp Operations

Waste Composition	Disposal Operation	On-site	Offsite	Total
Non-hazardous	Landfilled[i]	48,114	1,390	**49,504**
	Incinerated (with Energy recovery)[j]	372,170	-	**372,170**
Total Non-hazardous Waste Directed to Disposal		**420,284**	**1,390**	**421,674**
Hazardous	Disposed[k]	-	197	**197**
Total Waste Directed to Disposal		**420,284**	**1,587**	**421,871**

[i]Non-hazardous waste landfilled offsite excludes data from our Taylor Pulp Mill, as data was not available.

[j]Represents biomass and sludge burned on site by pulp power boilers for energy recovery. See more in our Residuals Management section.

[k]Hazardous waste includes waste oil, asbestos and lead paint that is transported to licensed third parties for proper and safe disposal.

2020 - Total Waste Generated, Diverted from Disposal and Directed to Disposal - Wood Products Operations (tonnes)

Not available for 2020

2020 - Total Waste Generated, Diverted from Disposal and Directed to Disposal - Pulp Operations (tonnes)

2020 Total Waste Generated - Pulp Operations

Waste Composition	Waste Diverted from Disposal[I]	Waste Directed to Disposal	Total Waste Generated
Non-hazardous	19,711	363,889	**383,600**
Hazardous	-	125	**125**
Total	**19,711**	**364,014**	**383,725**

[I]Our pulp mills either divert sludge from disposal or direct sludge to disposal through incineration. Our pulp mills also direct biomass to disposal through incineration. The total weight of these materials is measured in 'oven dried tonnes' (ODT). This is the total weight without the water content. Waste directed to landfill is measured in tonnes. For the purposes for reporting total waste generated, we have combined the units of tonnes and oven dried tonnes (ODT).

2020 Waste Diverted from Disposal - Pulp Operations[m,n]

Waste Composition	Recovery Type	On-site	Offsite	Total
Non-Hazardous	Other Recovery Operations: Residuals Recovered for Value-added Product[o]	-	19,711	**19,711**
	Recycling	-	-	**-**
Total Waste Diverted from Disposal		**-**	**19,711**	**19,711**

[m]Data has been reclassified based on revisions made to our calculation methodology.

[n]Our pulp mills either divert sludge from disposal or direct sludge to disposal through incineration. Our pulp mills also direct biomass to disposal through incineration. The weight of these materials is measured in oven dried tonnes (ODT). This is the total weight without the water content.

[o]Represents sludge collected onsite and diversted from disposal by being sold to external third parties.

2020 Waste Directed to Disposal - Pulp Operations

Waste Composition	Disposal Operation	On-site	Offsite	Total
Non-hazardous	Landfilled[p]	48,157	1,624	**49,781**
	Incinerated (with Energy recovery)[q]	314,108	-	**314,108**
Total Non-hazardous Waste Directed to Disposal		**362,265**	**1,624**	**363,889**
Hazardous	Disposed	-	125	**125**
Total Waste Directed to Disposal[r]		**362,265**	**1,749**	**364,014**

[p]Non-hazardous waste landfilled offsite and hazardous waste disposed offsite excludes data from our Taylor mill, as this metric is not currently tracked.

[q]Represents sludge burned onsite for pulp power boilers, and biomass directed to disposal through incineration. The weight of these materials is measured using oven dried tonnes (ODT) – the total weight without the water content.

[s]For the purposes of reporting total waste directed to disposal, we have combined the units of tonnes and ODT.

RESIDUALS MANAGEMENT

Performance

2021 Residuals Processed by Material (tonnes)[a,b]

North American Wood Products Operations

Material	Amount	% of Total
External sales		
Trim blocks	62,795	1.2%
Chips	2,293,328	41.8%
Bark	147,434	2.7%
Hog Fuel	259,415	4.7%
Sawdust	274,613	5.0%
Shavings	433,614	7.9%
Salvage	6,296	0.2%
Ash	4,144	0.1%
Internal Sales		
Hog Fuel	846,726	15.4%
Chips	878,696	16.0%
Sawdust	177,449	3.2%
Shavings	98,081	1.8%
Total Residuals Processed by Wood Products Operations	**5,482,591**	**100%**

[a]All residuals data is collected in either oven-dried tonnes or tonnes. For the purposes of reporting, we have conservatively reported all amounts in tonnes. For Canadian Wood Products Operations, data includes a blend of estimate and actuals.

[b]The data reported as residuals is also shown in the waste data tables in the "Incinerated (With Energy Recovery)" and "Residual Recovered for Value-added Products" categories. These categories are considered waste diverted from landfill. See more in our Waste Management section in our Sustainability Report.

Pulp Operations

Material	Amount	% of Total
Hog Fuel	368,319	94.3%
Sludge used for energy	3,851	1.0%
Sludge applied to land or for agricultural use	18,507	4.7%
Total Residuals Processed by Pulp Operations	**390,677**	**100%**

Total Residuals Processed by Pulp and Wood Products Operations	**5,873,268**

Wood Products Operations

Total Residuals Processed (by Waste Recovery Type) (tonnes) [c]	**5,482,591**
Residuals recovered for value-added products:	4,635,865
Woodwaste recovered for energy:	846,726

[c]The data reported as residuals is also shown in the waste data tables in the "Incinerated (With Energy Recovery)" and "Residual Recovered for Value-added Products" categories. These categories are considered waste diverted from landfill. See more in our Waste Management section in our Sustainability Report.

Pulp Operations

Total Residuals Processed (by Waste Recovery Type) (tonnes) [d]	**390,677**
Residuals recovered for value-added products:	18,507
Woodwaste recovered for energy:	372,170

[d]The data reported as residuals is also shown in the waste data tables in the "Incinerated (With Energy Recovery)" and "Residual Recovered for Value-added Products" categories. These categories are considered waste diverted from landfill. See more in our Waste Management section in our Sustainability Report.

ENERGY MANAGEMENT

Performance

Year over Year Comparison of Energy Consumption Within Organization (gigajoules, GJ)

		2021	2020
Source	**Fuel Type**	**Total**	**Total**
Non-Renewable Sources	Diesel	1,047,392	992,496
	Gasoline	25,229	18,250
	Natural Gas	9,978,179	9,086,818
	Propane	54,106	54,818
	Subtotal	**11,104,906**	**10,152,382**
Renewable Sources	Crude Tall Oil	27,315	44,202
	NCGs	41,626	52,465
	Pulping Liquor	25,496,797	24,052,168
	Wood waste / Hog Fuel	16,679,880	17,808,877
	Subtotal	**42,245,618**	**41,957,712**
Fuel Consumption	**Subtotal**	**53,350,524**	**52,110,094**
Electricity Purchased for Consumption	Non-renewable	831,089	n/a[a]
	Renewable	2,854,660	n/a[a]
	Subtotal	**3,685,749**	**4,320,006**
Electricity Sold	**Subtotal**	**-864,973**	**-876,788**
Total Energy Consumption Within Organization		**56,171,300**	**55,553,312**

[a]Information was not available to allocate electricity purchased for consumption between renewable and non-renewable sources.

Total Energy Consumption Within Organization (gigajoules, GJ)[b,c]

		2021					2020
Source	**Fuel Type**	**Pulp Operations**	**Wood Products Operations: Canada**	**Wood Products Operations: U.S.**	**Corporate Offices and Other Locations**	**Total**	**Total**
Non-Renewable Sources	Diesel	107,131	336,481	603,780	0	1,047,392	992,496
	Gasoline	6,768	10,137	8,198	126	25,229	18,250
	Natural Gas	8,569,062	796,399	563,603	49,115	9,978,179	9,086,818
	Propane	35,194	18,878	34	0	54,106	54,818
	Subtotal	**8,718,155**	**1,161,895**	**1,175,615**	**49,241**	**11,104,906**	**10,152,382**
Renewable Sources	Crude Tall Oil	27,315	0	0	0	27,315	44,202
	NCGs	41,626	0	0	0	41,626	52,465
	Pulping Liquor	25,496,797	0	0	0	25,496,797	24,052,168
	Wood waste / Hog Fuel	4,511,397	7,244,637	4,923,846	0	16,679,880	17,808,877
	Subtotal	**30,077,135**	**7,244,637**	**4,923,846**	**0**	**42,245,618**	**41,957,712**
Fuel Consumption	**Subtotal**	**38,795,290**	**8,406,532**	**6,099,461**	**49,241**	**53,350,524**	**52,110,094**
Electricity Purchased for Consumption	Non-renewable	37,060	24,533	767,714	1,782	831,089	n/a[d]
	Renewable	1,727,723	1,046,308	75,831	4,798	2,854,660	n/a[d]
	Subtotal	**1,764,783**	**1,070,841**	**843,545**	**6,580**	**3,685,749**	**4,320,006**
Electricity Sold	**Subtotal**	**-685,805**	**-179,168**	**0**	**0**	**-864,973**	**-876,788**
Total Energy Consumption Within		**39,874,268**	**9,298,205**	**6,943,006**	**55,821**	**56,171,300**	**55,553,312**

[b]Our prior year figures have been restated due to the review and refinement of our calculation methodology and assumptions and to ensure consistency with current year comparatives.

[c]Data excludes Vida and Houston Pellet Limited Partnership (HPLP).

[d]Information was not available to allocate electricity purchased for consumption between renewable and non-renewable sources.