

SUSTAINABILITY PERFORMANCE INDICATORS

DIRECT ECONOMIC VALUE CREATED BY OPERATIONS (million U.S. dollars) ¹⁾					
All Domtar Operations	2015	2016	2017	2018	2019
ECONOMIC VALUE GENERATED					
Sales Revenue	5,257	5,090	5,148	5,455	5,220
ECONOMIC VALUE DISTRIBUTED					
Materials and Services Purchased	3,471	3,407	3,445	3,612	3,668
Capital Investments in our Facilities	289	347	182	195	255
Research & Development	139	129	141	150	136
Salaries, Wages and Benefits Paid	938	954	993	978	925
Returns to Shareholders	150	112	104	108	329
Interest Paid to Debtholders	133	64	58	57	46
Taxes Paid	34	40	33	71	59

OUR WORKFORCE (% unless otherwise noted)					
All Domtar Operations	2015	2016 ²⁾	2017	2018	2019
Number of Employees as of December 31st each year	9,792	9,983	9,899	9,784	9,623
BY REGION					
Asia	<0.1%	<0.1%	<0.1%	<0.1%	0.1%
Europe	11%	11%	12%	12%	12%
North America	89%	89%	88%	88%	88%
BY GENDER					
Female	21%	22%	22%	22%	23%
Male	79%	78%	78%	78%	77%
BY AGE					
≤ 29	9%	10%	9%	12%	12%
30-39	17%	18%	17%	18%	19%
40-49	26%	26%	25%	25%	25%
50-59	35%	34%	33%	33%	32%
60-69	13%	12%	15%	12%	12%
≥ 70	<1%	<1%	1%	<1%	<1%
BY EMPLOYMENT TYPE					
Union	47%	48%	48%	44%	44%
Non-Union	53%	52%	52%	56%	56%
TURNOVER					
Voluntary Turnover Rate	3.4%	3.9%	3.6%	4.2%	5.0%

SAFETY INCIDENTS					
All Domtar Operations	2015	2016	2017	2018	2019
Total Frequency Rate (# recordable incidents/200,000 hours worked)	0.99	0.82	0.78	0.74	0.79
Lost Time Frequency Rate (# lost time recordable incidents/200,000 hours worked)	0.43	0.33	0.38	0.35	0.35
Lost Time Severity Rate (# lost days * 200,000)/# hours worked	25.18	32.44	16.87	18.63	12.96
Fatalities (number)	1 ³⁾	0	1 ⁴⁾	0	0

WOOD AND FIBER PURCHASES (thousand metric tons)					
Pulp and Paper Mills	2015	2016	2017	2018	2019
Wood Purchases (as received in chip equivalents) ⁵⁾	15,856	15,463	15,586	15,178	15,239
Virgin Pulp Purchases (air dry)	33	22	41	58	97
Recycled Pulp Purchases (air dry)	74	66	68	75	58

CERTIFIED WOOD (% of total wood deliveries)					
Pulp and Paper Mills	2015	2016	2017	2018	2019
TOTAL CERTIFIED WOOD	30%	34%	41%	38%	34%
Forest Stewardship Council (FSC)	18%	19%	22%	21%	18%
Programme for the Endorsement of Forest Certification (PEFC) ⁶⁾	12%	15%	19%	17%	16%

FOOTNOTES

¹⁾ Sales Revenue and Materials and Services Purchased, years 2015-2017, were adjusted to reflect the retrospective application of ASU 2014-09 "Revenue from contracts with customers," adopted on January 1, 2018.

²⁾ Includes acquisition of Home Delivery Incontinent Supplies Co. (HDIS).

³⁾ Ashdown, Arkansas mill, September 2015.

⁴⁾ Kamloops, British Columbia mill, June 2017.

⁵⁾ Includes roundwood and chips.

⁶⁾ Includes fiber inputs from the American Tree Farm System (ATFS), Canadian Standards Association (CSA) and Sustainable Forestry Initiative (SFI). PEFC endorses these and other national forest certification standards.

ENERGY USE (million gigajoules unless otherwise noted)					
All Manufacturing Facilities	2015	2016	2017	2018	2019
TOTAL ENERGY USE FOR MANUFACTURING	170.98	164.51	169.06	165.83	158.71
Biomass (black liquor, bark, wood residuals and biofuels)	76.8%	76.9%	77.0%	74.7%	74.3%
Natural gas	14.7%	15.6%	16.9%	19.1%	19.2%
Purchased Electricity (net)	3.5%	3.6%	3.7%	3.6%	4.2%
Coal	3.6%	2.5%	1.0%	1.1%	1.0%
Purchased Steam (net)	0.7%	0.6%	0.7%	0.7%	0.7%
Other (hydropower, oil, pet coke, propane, tire-derived fuel)	0.7%	0.8%	0.7%	0.8%	0.6%
TOTAL ENERGY USE FOR ON-SITE MOBILE EQUIPMENT	0.35	0.34	0.32	0.33	0.31
Diesel	64.3%	66.5%	66.7%	66.4%	66.7%
Propane	25.6%	23.9%	23.7%	23.3%	22.7%
Gasoline	10.1%	9.6%	9.6%	10.2%	10.6%

AIR EMISSIONS (metric tons)					
Pulp and Paper Mills	2015	2016	2017	2018	2019
Nitrogen Oxides (NOx)	12,776	12,038	11,706	11,260	10,628
Sulfur Dioxide (SO ₂)	3,617	3,150	3,203	2,896	3,264
Total Particulate Matter (PM)	3,415	3,158	3,140	2,877	2,406
Volatile Organic Compounds (VOC)	5,596	4,435	4,612	4,741	4,537

GREENHOUSE GAS EMISSIONS (million metric tons CO ₂ e)					
All Manufacturing Facilities	2015	2016	2017	2018	2019
TOTAL GREENHOUSE GAS EMISSIONS	3.28	3.17	3.03	3.15	3.00
Direct Emissions (Scope 1)	2.03	1.85	1.77	1.94	1.85
Indirect Emissions from Purchased Electricity and Steam (Scope 2)	0.67	0.67	0.60	0.59	0.69
Indirect Emissions from Sale of Renewable Electricity Attributes (Scope 2)	0.58	0.65	0.66	0.62	0.46

WATER USE AND DISCHARGES					
Pulp and Paper Mills	2015	2016	2017	2018	2019
TOTAL WATER USE (million cubic meters) ⁷⁾	405.9	405.5	410.4	406.8	366.7
Process Water Use	367.9	363.3	365.9	361.1	344.4
Non-contact Cooling Water Use	38.0	42.2	44.5	45.7	22.3
WATER SOURCES (%)					
Surface Water	93%	94%	94%	94%	92%
Groundwater	7%	6%	6%	6%	8%
DISCHARGES TO WATER (metric tons)					
Adsorbable Organic Halides (AOX)	830	766	749	670	645
Biochemical Oxygen Demand (BOD)	10,045	8,570	8,990	9,435	8,428
Total Suspended Solids (TSS)	11,823	11,981	11,483	12,729	12,170

MANAGEMENT OF MANUFACTURING BYPRODUCTS (dry metric tons unless otherwise noted)					
Pulp and Paper Mills and Personal Care Facilities	2015	2016	2017	2018	2019
TOTAL BYPRODUCTS GENERATED	493,690	470,872	475,527	493,700	492,133
To Landfill	137,337	119,998	113,874	147,548	157,236
To Beneficial Use or Recycling	356,353	350,874	361,653	346,152	334,897
Beneficial Use and Recycling Rate	72%	75%	76%	70%	68%

HAZARDOUS WASTE (metric tons)					
Pulp and Paper Mills and Personal Care Facilities	2015	2016	2017	2018	2019
Total Hazardous Waste Manifested ⁸⁾	385	457	501	370	846

FOOTNOTES

⁷⁾ Measured as water volume discharged.

⁸⁾ Reported according to national jurisdictional regulations and requirements. In 2019, the increase was primarily due to groundwater reclamation at one of our sites from legacy operations (413 metric tons).

GENERAL NOTE

Some of the data contained in these tables may be slightly different than what has been previously reported. This is due to adjustments resulting from additional data verification, ongoing efforts to standardize and improve performance indicators across the company, and changes to reporting methods.