

KRUGER PRODUCTS, L.P. SUSTAINABILITY KEY PERFORMANCE INDICATORS: OPERATIONS

<u>ENERGY CONSUMPTION¹</u>	<u>UNIT</u>	<u>2018*</u>	<u>2017*</u>	<u>2016*</u>	<u>2015</u>	<u>2009 Benchmark</u>
Natural Gas	Gigajoules	4,314,868	4,093,447	3,970,252	4,053,601	4,271,830
	% of Total	61	61	61	61	65
Grid-Supplied Electricity	Gigajoules	2,329,479	2,305,309	2,246,507	2,187,507	1,992,136
	% of Total	33	34	34	34	31
Biomass	Gigajoules	361,216	350,841	332,189	355,002	15,977
	% of Total	5	5	5	5	0
Other (Diesel, Oil, Propane)	Gigajoules	44,760	34,020	28,297	31,392	287,585
	% of Total	1	0	0	0	4
Total	Gigajoules	7,050,322	6,783,427	6,577,246	6,627,502	6,567,528
	GJ/MDMT Produced	19.65	19.81	19.53	20.67	21.72
Energy from Renewables	% of Total	27	27	29	27	26
 <u>GREENHOUSE GAS EMISSIONS¹</u>						
CO ₂ e Scope 1 (Direct)	Metric Tonnes CO ₂ e	218,365	207,015	201,963	206,732	236,712
	kg CO ₂ e/MDMT Produced	609	605	599	644	783
Location-Based CO ₂ e Scope 2 (Indirect)	Metric Tonnes CO ₂ e	119,240	121,355	132,443	142,432	63,843
	kg CO ₂ e/MDMT Produced	332	354	393	444	211
Total	Metric Tonnes CO ₂ e	337,239	328,371	334,407	320,613	300,545
	kg CO ₂ e/MDMT Produced	940	959	993	1060	994
 Market-Based						

CO ₂ e Scope 2 (Indirect)	Metric Tonnes CO ₂ e	78,102	82,879	94,135	N/A	N/A
<u>CAC EMISSIONS¹</u>	<u>UNIT</u>	<u>2018*</u>	<u>2017*</u>	<u>2016*</u>	2015	<u>2009 Benchmark</u>
NOx	Metric Tonnes	302.3	292.5	285.1	-	-
SOx	Metric Tonnes	109.3	108.1	104.8	-	-
TPM ²	Metric Tonnes	93.2	91.3	87.5	-	-
VOCs ³	Metric Tonnes	16.1	15.5	15.2	-	-
CO	Metric Tonnes	296.4	286.4	276	-	-
<u>WATER¹</u>						
Effluent Hydraulic Flow	m ³	19,606,335	18,895,035	20,114,475	20,471,496	22,983,464
	M ³ /MDMT Produced	55	55	60	64	76
<u>EFFLUENT DISCHARGES¹</u>						
BOD	Metric Tonnes	873	1654	1473	1693	-
Suspended Solids	Metric Tonnes	3492	2901	2956	4800	-
COD ⁴	Metric Tonnes	5253	5588	5988	-	-
AOX ⁵	Metric Tonnes	10	9	11	10	-
P ⁶	Metric Tonnes	3	4	4	4	-
<u>SOLID WASTE¹</u>						
Generated	Metric Tonnes	48,658	50,349	47,671	45,390	-
Recovered	Metric Tonnes	42,915	41,514	41,216	40,711	-
	% of Total	88	82	86	90	-
To Landfill	Metric Tonnes	5,743	8,835	6,455	4,679	-
	% of Total	12	18	14	10	-

KRUGER PRODUCTS, L.P. SUSTAINABILITY KEY PERFORMANCE INDICATORS: PRODUCTS

<u>FIBRE CONSUMED</u>	<u>UNIT</u>	<u>2018*</u>	<u>2017*</u>	<u>2016*</u>	<u>2015</u>	<u>2009 Benchmark</u>
Purchased Recycled	Air Dried MT	4,547	5,500	4,829	6,264	7,026
	% of Total	1	2	1	2	3
Produced Recycled	Air Dried MT	82,301	74,866	85,454	77,066	78,921
	% of Total	23	22	25	24	27
Purchased Virgin	Air Dried MT	269,765	262,939	248,803	236,917	181,091
	% of Total	76	76	73	74	64
Produced Virgin	Air Dried MT	-	-	-	-	16,833
	% of Total	0	-	-	-	6
Total	Air Dried MT	356,613	343,355	339,086	320,247	283,871
FSC® Mix Certified	% of Total	31	34	32	33	0
FSC® Recycled Certified	% of Total	24	22	25	24	0
Non-Controversial Sources	% of Total	45	44	43	43	0
<u>CERTIFIED PRODUCTS</u>						
UL ECOLOGO (UL 175)	No. of Products	58	55	55	55	93
Forest Stewardship Council®	No. of Products	110	107	127	126	0
Green Seal	No. of Products	1	1	1	1	1
<u>CERTIFIED PAPERMAKING</u>						
ISO 9001	% of Total Production	100	100	100	100	-
<u>PRODUCTION</u>						
Paper	MDMT	358,807	342,427	336,771	320,613	302,414

KRUGER PRODUCTS, L.P. SUSTAINABILITY KEY PERFORMANCE INDICATORS: SOCIAL

<u>HEALTH & SAFETY</u>	<u>UNIT</u>	<u>2018*</u>	<u>2017*</u>	<u>2016*</u>	<u>2015</u>	<u>2009 Benchmark</u>
OSHA	Total Incidence Rate	2.1	2.9	3.6	4.0	6.6
Lost Work Days	No. of Days	614	795	1,436	907	-
Fatalities	No. of Employees	0	0	0	0	0
<u>LEADERSHIP DIVERSITY</u>						
Women in Board Roles	Percentage	25	0	25	25	N/A
Women in Senior Leadership Roles	Percentage	20	10	10	10	10

*Includes Trenton and Scarborough, ON Converting Plants Data Manufacturing operations only.

²For certain emission sources, an emission factor for TPM (total particulate matter) was not available. In these instances, PM10 or Filterable PM is used to represent TPM.

³For certain emission sources, an emission factor for VOC (Volatile organic compound) was not available. In these instances, TOC (total organic carbon) or NMTOC (non-methane organic compound) is used to represent VOC.

⁴Does not include New Westminster, BC Plant.

⁵Only Gatineau and Crabtree, QC Plants included.

⁶Only Crabtree and Lennoxville (Sherbrooke), QC Plants included.

⁷Only Gatineau, Crabtree and Lennoxville (Sherbrooke), QC Plants included.

MDMT=Machine Dried Metric Tonnes