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CleanTech Innovations

# 2019 PULP, PAPER & BIOECONOMY MAP

# PULP & PAPER CANADA

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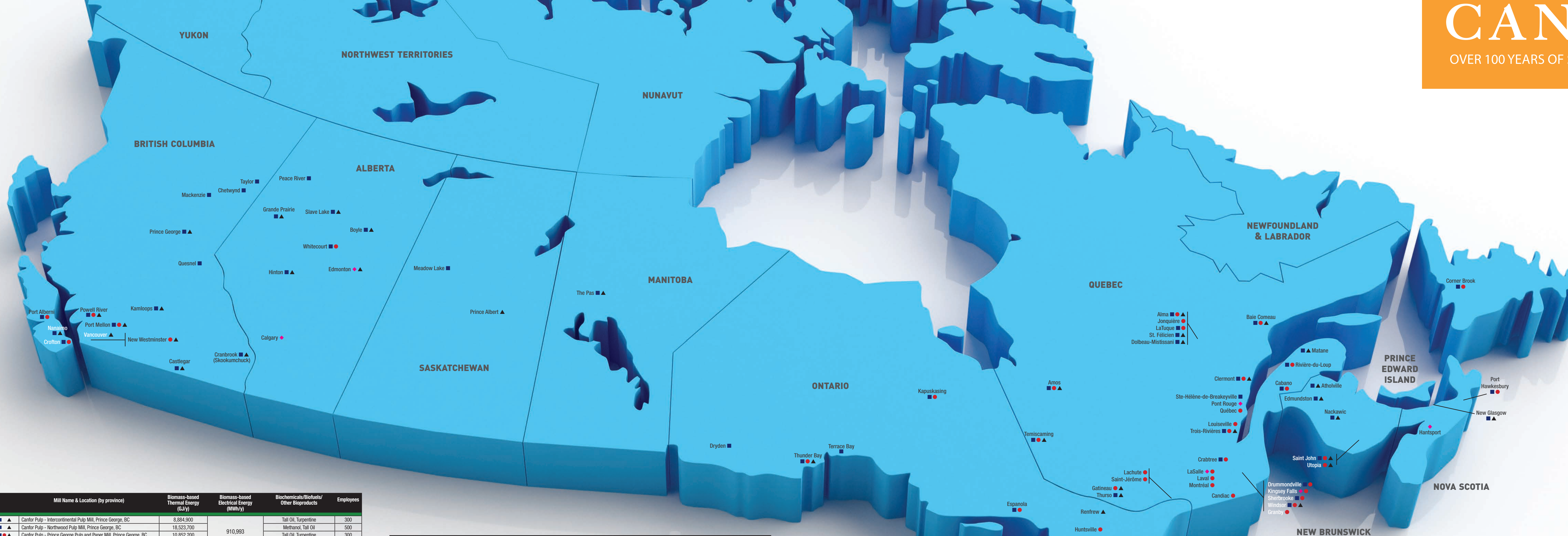
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Mill Name & Location (by province)	Biomass-based Thermal Energy (GJ/y)	Biomass-based Electrical Energy (MWh/y)	Biochemicals/Biofuels/Other Bioproducts	Employees
▲ Carlor Pulp - Intercontinental Pulp Mill, Prince George, BC	8,884,900		Tall Oil, Turpentine	300
▲ Carlor Pulp - Northwood Pulp Mill, Prince George, BC	18,523,700	910,993	Methanol, Tall Oil	500
▲ Carlor Pulp - Prince George Pulp and Paper Mill, Prince George, BC	10,852,200		Tall Oil, Turpentine	300
▲ Carlor Pulp - Taylor Pulp Mill, Taylor, BC	12,236,300	211,389	Tall Oil, Turpentine	110
▲ Cariboo Pulp & Paper Company, Quamichan, BC	4,800,000	81,000		308
▲ Catalyst Paper Corp. - Alberta Specialties Division, Fort Albert, BC	15,000,000	314,000		602
▲ Catalyst Paper Corp. - Powell River Division, Powell River, BC	7,200,000	220,000		434
▲ Cheyenne Mechanical Pulp Inc., Cheyenne, BC	1.13 x 10 <sup>13</sup> BTU/y	500,000	Turpentine	420
▲ Dorrer Corp. - Kamloops, Kamloops, BC	12,747,321	383,042	Syngas	410
▲ Howe Sound Pulp and Paper Corporation, Port Mellon, BC	351,570			256
▲ Kruger Products Ltd., New Westminster, BC	1.36 x 10 <sup>13</sup> kJ/y	520,000		425
▲ Mercer International Inc. - Mercer Cedar, Castlegar, BC	25 MW			425
▲ Nanaimo Forest Products - Hemlock Pacific Mill, Nanaimo, BC	25 MW			290
▲ Queen's River Pulp Company, Quamichan, BC				290
▲ Skookumchuck Pulp, Cranbrook, BC				290
▲ University of British Columbia, Vancouver, BC	15,300			
▲ Alberta Innovates Technology Futures, Edmonton, AB			Cellulose Nanocrystals	189
▲ Alberta Investment Company, Whitecourt, AB				210
▲ Alberta-Pacific Forest Industries Inc., Boyle AB	18,157,340	502,773	Bio-methanol (1019 l/y)	380
▲ Building Products of Canada Corp. - Edmonton Plant, Edmonton, AB				300
▲ IWO Industries Ltd. - Calgary Plant, Calgary, AB	100,000		Soil Amendment	114
▲ Mercer International Inc. - Mercer Prairie River Pulp, Peace River, AB				342
▲ Miller Western Forest Products Ltd. - Whitecourt, Whitecourt, AB	4.7 MW		Lignin	410
▲ West Fraser Timber Co. Ltd. - Slave Lake Pulp, Slave Lake, AB	140 MW		Biogas	334
▲ International Paper - Global Cellulose Fibers, Grande Prairie, AB				158
▲ Meadow Lake Mechanical Pulp Inc., Meadow Lake, SK				280
▲ Prince Albert Pulp, Prince Albert, SK (idle)	3,497,333	67,689		380
▲ Canadian Kraft Paper, The Pas, MB	9,007 T J/y	89,704	Biogas	300
▲ Aditya Birla Group - Air Terrace Bay Inc., Terrace Bay, ON				310
▲ Atlantic Packaging Products Ltd. - New Forest Paper Mill, Scarborough, ON				335
▲ Atlantic Packaging Products Ltd., Scarborough, ON				108
▲ Atlantic Packaging Products Ltd., Mississauga, ON				142
▲ Cascades Containerboard Packaging, Trenton, ON				330
▲ Dorrer Corp. - Dryden Mill, Dryden, ON				540
▲ Dorrer Corp. - Espanola Mill, Espanola, ON				
▲ Dunn Paper Inc. - St. Catharines, ON			RTP liquid (glycolis oil)	
▲ Enjay, Renfrew, ON			Lignin (pilot plant)	
▲ Fibromatex, Thunder Bay, ON				
▲ Georgia-Pacific Canada Inc., Thorold, ON (idle)				
▲ Hartmann Canada Inc., Bradford, ON				
▲ IWO Industries Ltd. - Brampton Plant, Brampton, ON				
▲ J.D. Irving Tissue Corp. - Irving Tissue Mill, Toronto Mill, York, ON				
▲ Kimberly-Clark Inc., Hurville, ON				
▲ Kruger Inc. - Containerboard and Packaging - Brampton, ON				
▲ MFI - Southview Paper, Niagara, ON				
▲ Rayonier Advanced Materials, Kapuskasing, ON				
▲ Resolute Forest Products - Thorold Division, Thorold, ON (idle)				
▲ Resolute Forest Products - Thorold Dry Operations, Thorold Bay, ON	8,300,000	116 MW	Turpentine, Tall Oil	448
▲ Sonoco Canada Corporation - Brantford Mill, Brantford, ON				69
▲ Sonoco Canada Corporation - Trent Valley Mill, Trenton, ON				

Mill Name & Location (by province)	Biomass-based Thermal Energy (GJ/y)	Biomass-based Electrical Energy (MWh/y)	Biochemicals/Biofuels/Other Bioproducts	Employees
▲ Building Products of Canada Corp. - Peat Rouge Plant, Peat Rouge, QC				36
▲ Building Products of Canada Corp., LaSalle, QC				45
▲ Cascades Canada LLC - Forma-Pak, Kingsley Falls, QC				43
▲ Cascades Canada LLC - Paper Kingsley Falls Inc., Kingsley Falls, QC				196
▲ Cascades Tissue Group - Candiac, Candiac, QC				160
▲ Cascades Tissue Group - Kingsley Falls Division, Kingsley Falls, QC				131
▲ Cascades Tissue Group - Lachute, Lachute, QC				65
▲ Cascades Tissue Group - Lével, Lével, QC				178
▲ Cellulose, Windsor, QC (idle)			Cellulose Nanocrystal	820
▲ Dorrer Corp. - Windsor Mill, Windsor, QC	262950	18 MW	Nanocrystalline Cellulose (NCC) (demonstration scale)	320
▲ Fortress Specialty Cellulose, Thurso, QC	6,050 GJ/day	24 MW		88
▲ Gossier Canada Inc., Québec, QC				23 MW
▲ Kruger Inc. - Brongnois Mill, Sherbrooke, QC				480
▲ Kruger Inc. - Containerboard and Packaging, LaSalle, QC				660
▲ Kruger Inc. - Containerboard and Packaging, Montbéliard, QC				50
▲ Kruger Inc. - Trois Rivières Mill, Trois Rivières, QC				480
▲ Kruger Products L.P., Gatineau, QC			Cellulose Flament	660
▲ Kruger Products L.P., Sherbrooke, QC				50
▲ Kruger Management Inc., Trois Rivières, QC				
▲ Matinac Specialties, Louiseville, Louiseville, QC				141
▲ Cascades Containerboard Packaging, Cabano, QC				66
▲ Cascades Containerboard Packaging, Kingsley Falls, QC				343
▲ Resolute Forest Products - Alma Division, Alma, QC	250,000			156
▲ Resolute Forest Products - Amos Division, Amos, QC	1,250,000			253
▲ Resolute Forest Products - Bas-Comeau Division, Bas-Comeau, QC	1,420,000			152
▲ Resolute Forest Products - Champlain Division, Champlain, QC	315,000			139
▲ Resolute Forest Products - Dolbeau, Dolbeau-Metissari, QC	3,130,000	28 MW		114
▲ Resolute Forest Products - Gatineau Division, Gatineau, QC	1,400,000	15		127
▲ Resolute Forest Products - Koroogong Mill, Joliette, QC				231
▲ Resolute Forest Products - Saint-Félicien, Saint-Félicien, QC	8,000,000	43 MW		300
▲ Roland Enterprises Inc. - Saint-Jérôme, QC				50
▲ Roland Enterprises Inc. - Ste-Hélène-de-Breakville, QC				127
▲ Rayonier Advanced Materials - Chemical Group - Temiscaming, Temiscaming, QC			Lignosulfonates	
▲ Rayonier Advanced Materials - High Yield Pulp Division - Temisc - Temiscaming, Temiscaming, QC			Biogas	
▲ Rayonier Advanced Materials - Resin Group, Temiscaming, QC				300
▲ Rayonier Advanced Materials - Specialty Cellulose - Temiscaming, Temiscaming, QC				142
▲ Rayonier Advanced Materials - Paperboard Group - Temiscaming, Temiscaming, QC				
▲ Rayonier Advanced Materials - Paperboard Group - Temiscaming, Temiscaming, QC				
▲ White Birch Paper - La Tuque Mill, La Tuque, QC				
▲ White Birch Paper - F.F. Poirer, Rivière-du-Loop, QC				
▲ White Birch Paper - Paper Mission Lake, Mission Lake, QC				
▲ White Birch Paper - Shatoona, Shatoona, QC				

Mill Location (by Province)	Biomass-based Thermal Energy (GJ/y)	Biomass-based Electrical Energy (MWh/y)	Biochemicals/Biofuels/Other Bioproducts	Employees
▲ Aditya Birla Group - Air Terrace Bay Inc., Terrace Bay, ON	2,750 T J/y	109,200	Lignosulfonates, biogas (85-75% methanol)	275
▲ Aditya Birla Group - Air Terrace Bay Inc., Terrace Bay, ON	4,018 T J/y	130,875		310
▲ Irving Pulp & Paper, Saint-John, NB	10,341,729	793,361 GJ/y	Soil Additive	335
▲ J.D. Irving Tissue Co., Saint-John, NB				145
▲ J.D. Irving Ltd. - Lake Umbagog Paper, Lake Umbagog, NB	977,000		Methane	140
▲ Twin Rivers Paper Company - Edmundston Pulp Division, Edmundston, NB	6,457,780 BTU/y	237,175		290
▲ ODF Inc., Hartport, NS				225
▲ Northern Pulp Nova Scotia Corporation, New Glasgow, NS	4,815,000 BTU	23 MW		60 MW
▲ Port Hawkesbury Paper, Port Hawkesbury, NS				500
▲ Kruger Inc. - Corner Brook Pulp & Paper Ltd., Corner Brook, NL				

Notes: List includes operating (and temporarily closed) pulp, paper and board mills, plus other producers of forest biomass-based electricity and chemicals. Figures are from survey respondents or published sources. Listed biomass-based energy and bioproducts may be for internal use or external sale.

## MAP LEGEND

- Pulp
- Paper, board and tissue
- ▲ Bioenergy and bioproducts
- ◆ Other

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Hyatt Regency, St. Louis at the Arch  
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