

MAC Member Facility Energy Use (GJ) 2001-2015

Sector	Company	Facility	Base Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Base Metals	ArcelorMittal Mines Canada	Mont-Wright	5,446,000	3,744,000	4,159,000	4,602,000	4,745,000	4,189,000	4,860,000	3,708,000	4,077,000	NA	NA	4,055,634	4,055,634	6,013,140	6,732,774	16,672,975	
		Port-Cartier	8,373,000	6,992,000	7,689,000	8,894,000	9,387,000	8,211,000	9,599,000	9,841,000	9,339,000	NA	NA	10,720,076	10,720,076	11,466,578	6,043,880		
		<b>Total</b>	<b>13,819,000</b>	<b>10,736,000</b>	<b>11,848,000</b>	<b>13,496,000</b>	<b>14,132,000</b>	<b>12,400,000</b>	<b>14,459,000</b>	<b>13,549,000</b>	<b>13,416,000</b>	<b>11,708,806</b>	<b>14,393,083</b>	<b>15,246,609</b>	<b>14,775,710</b>	<b>17,479,718</b>	<b>12,776,654</b>	<b>16,672,975</b>	
	HudBay Minerals Inc.	Hudson Bay Mining and Smelting Co., Limited	NA	NA	NA	NA	NA	NA	NA	NA	5,993,000	6,082,000	5,494,458	4,869,666	4,227,430	3,870,000	3,863,900	4,223,290	4,098,784
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,993,000</b>	<b>6,082,000</b>	<b>5,494,458</b>	<b>4,869,666</b>	<b>4,227,430</b>	<b>3,870,000</b>	<b>3,863,900</b>	<b>4,223,290</b>	<b>4,098,784</b>
		Çayeli Mine	NA	NA	NA	296,000	288,000	283,000	311,000	330,000	343,000	324,368	323,513	341,765	344,423	356,750	279,315	273,337	
	First Quantum Minerals	Cobre Las Cruces	NA	NA	NA	NA	NA	NA	213,000	826,000	861,000	519,565	922,739	1,067,056	1,532,583	1,564,521	979,578	NA	
		Cobre Panama	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60,315	83,206	202,335	185,563	1,182	NA	
		Copper Range Company (closed)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	814	397	257	13,196	1,804	823	361
		Norbec (closed)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	3,067	2,224	2,688	2,964	3,321	2,905	2,621
		Pyhäsalmi Mine	NA	NA	NA	336,000	320,000	309,000	322,000	320,000	329,000	319,720	328,380	24,563,451	329,358	303,309	283,612	279,914	
		Samatosum (closed)	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,427	1,291	1,265	1,316	1,448	948	989	
		Sturgeon Lake (closed)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36,296	1,730	2,387	1,984	0	0
		Winston Lake (closed)	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,895	3,695	3,889	3,805	3,269	2,833	3,043	
		Closed Properties	0	0	0	0	0	0	0	0	0	9,202	43,902	9,829	23,668	11,826	7,509	7,014	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>632,000</b>	<b>1,542,000</b>	<b>5,424,000</b>	<b>5,018,000</b>	<b>5,468,000</b>	<b>5,310,000</b>	<b>1,172,855</b>	<b>1,678,849</b>	<b>26,065,308</b>	<b>2,432,367</b>	<b>2,421,969</b>	<b>1,551,196</b>	<b>282,972</b>	
	Imperial Metals	Mount Polley	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,425,205	634,382,149	573,811
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,425,205</b>	<b>634,382,149</b>	<b>573,811</b>
	Iron Ore Company of Canada	Labrador City	NA	NA	13,067,000	17,384,000	14,213,000	17,252,000	16,687,000	16,922,000	19,882,000	13,046,720	16,239,665	13,818,554	15,107,821	NA	14,345,760	NA	
		Sept-Iles	NA	NA	1,643,000	1,756,000	1,444,000	1,722,000	1,651,000	1,468,000	1,555,000	1,087,059	1,255,597	1,924,530	1,947,466	NA	1,454,639	NA	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>14,710,000</b>	<b>19,140,000</b>	<b>15,657,000</b>	<b>18,974,000</b>	<b>18,338,000</b>	<b>18,390,000</b>	<b>21,437,000</b>	<b>14,133,779</b>	<b>17,495,262</b>	<b>15,743,085</b>	<b>17,055,287</b>	<b>NA</b>	<b>15,800,399</b>	<b>NA</b>		
	KGHM International	Morrison	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	503,547	NA	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>503,547</b>	<b>NA</b>	
	Nyrstar	Nyrstar Myra Falls	NA	NA	NA	NA	NA	402,000	548,000	NA	NA	NA	324,046	243,531	99,659	113,363	NA	524,039	NA
		Langlois	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	295,984	100,447	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>402,000</b>	<b>548,000</b>	<b>0</b>	<b>0</b>	<b>324,046</b>	<b>243,531</b>	<b>99,659</b>	<b>113,363</b>	<b>0</b>	<b>820,023</b>	<b>100,447</b>	
	Teck Resources Limited	Duck Pond Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	357,794	366,592	370,647	373,494	390,848	373,700	NA
Highland Valley Copper		NA	4,428,000	4,476,000	4,739,000	4,467,000	4,639,000	4,773,000	4,973,000	5,487,000	5,383,427	5,886,742	5,727,978	5,572,986	5,524,431	5,946,091	6,110,874		
Trail Smelter		11,378,000	10,286,000	9,812,000	10,474,000	10,973,000	8,309,000	11,279,000	10,653,000	17,287,000	5,679,781	10,899,619	11,292,314	11,290,849	11,122,592	10,745,400	10,682,856		
<b>Total</b>	<b>11,378,000</b>	<b>14,714,000</b>	<b>14,288,000</b>	<b>15,213,000</b>	<b>15,440,000</b>	<b>12,948,000</b>	<b>16,052,000</b>	<b>15,626,000</b>	<b>22,774,000</b>	<b>11,421,002</b>	<b>17,152,953</b>	<b>17,390,939</b>	<b>17,237,328</b>	<b>17,037,871</b>	<b>17,065,190</b>	<b>16,793,730</b>			
Vale	Manitoba Operations	NA	NA	NA	NA	4,119,000	NA	4,028,000	4,646,000	4,331,000	4,160,733	3,914,433	4,072,519	4,041,732	4,376,561	3,516,642	4,412,035		
	Ontario Operations - Port Colborne Refinery and Sudbury**	NA	NA	NA	NA	14,795,000	14,224,000	13,419,000	13,897,000	14,563,000	9,621,209	9,498,562	NA	13,539,752	14,289,297	14,244,984	13,307,089		
	VNL Labrador Operations	NA	NA	NA	NA	NA	NA	NA	1,218,000	1,170,000	856,483	938,144	1,229,970	1,178,597	1,227,307	1,181,786	1,218,830		
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>18,914,000</b>	<b>14,224,000</b>	<b>17,447,000</b>	<b>19,761,000</b>	<b>20,064,000</b>	<b>14,638,425</b>	<b>14,351,139</b>	<b>5,302,489</b>	<b>18,760,081</b>	<b>19,893,165</b>	<b>18,943,412</b>	<b>18,937,954</b>		
Glencore (Copper)	CCR Refinery	2,944,000	2,115,000	1,917,000	1,890,000	1,937,000	1,936,000	NA	NA	NA	1,807,934	1,696,008	1,574,419	3,045,063	1,737,719	1,776,402	1,727,631		
	Horne Smelter	3,393,000	3,165,000	2,590,000	2,147,000	2,450,000	2,372,000	NA	NA	NA	2,241,308	2,201,892	NA	2,137,045	2,118,018	2,198,555	2,147,811		
	<b>Total</b>	<b>6,337,000</b>	<b>5,280,000</b>	<b>4,507,000</b>	<b>4,037,000</b>	<b>4,387,000</b>	<b>4,308,000</b>	<b>12,403,000</b>	<b>11,615,000</b>	<b>11,416,000</b>	<b>4,049,242</b>	<b>3,897,900</b>	<b>1,574,419</b>	<b>5,182,108</b>	<b>3,855,737</b>	<b>3,974,957</b>	<b>3,875,442</b>		
Glencore (Nickel)	Raglan Mine	1,483,000	1,662,000	1,647,000	1,683,000	1,751,000	1,778,000	1,878,000	2,055,000	2,121,000	1,952,292	1,942,077	2,159,968	2,376,865	2,624,123	2,386,593	2,170,998		
	Sudbury Operations	3,911,000	4,198,000	4,657,000	4,266,000	4,264,000	4,492,000	4,335,000	3,789,000	3,814,000	3,099,027	3,125,686	3,263,487	3,264,369	3,490,666	3,766,758	3,476,048		
	<b>Total</b>	<b>5,394,000</b>	<b>5,860,000</b>	<b>6,304,000</b>	<b>5,949,000</b>	<b>6,015,000</b>	<b>6,270,000</b>	<b>6,213,000</b>	<b>5,844,000</b>	<b>5,935,000</b>	<b>5,051,319</b>	<b>5,067,763</b>	<b>5,423,455</b>	<b>5,641,234</b>	<b>6,114,789</b>	<b>6,153,351</b>	<b>5,647,046</b>		
	Brunswick Mine	2,420,000	2,384,000	2,324,000	2,349,000	2,299,000	2,295,000	2,296,000	2,166,000	2,073,000	1,993,264	NA	NA	NA	NA	NA	NA	NA	

Glencore (Zinc)	Brunswick Smelter	2,599,000	1,964,000	1,928,000	1,337,000	2,081,000	2,163,000	2,457,000	1,953,000	2,268,000	NA	2,456,039	2,436,628	2,414,895	1,623,908	1,534,035	1,650,924	
	CEZinc	3,682,000	4,934,000	5,007,000	5,184,000	5,136,000	4,907,000	4,810,000	4,981,000	5,099,000	4,720,904	5,166,668	5,139,750	5,110,747	5,142,252	5,147,159	5,124,788	
	Kidd Operations *	7,336,000	7,444,000	8,336,000	6,843,000	7,087,000	7,232,000	NA	NA	NA	6,533,129	4,208,601	1,990,899	1,911,853	1,918,004	1,785,955	1,665,856	
	<b>Total</b>	<b>8,701,000</b>	<b>9,282,000</b>	<b>9,259,000</b>	<b>8,870,000</b>	<b>9,516,000</b>	<b>9,365,000</b>	<b>9,563,000</b>	<b>9,100,000</b>	<b>9,440,000</b>	<b>6,714,168</b>	<b>7,622,707</b>	<b>7,576,378</b>	<b>7,525,642</b>	<b>6,766,160</b>	<b>6,681,194</b>	<b>6,775,712</b>	
Coal	Teck Resources Limited	Teck Coal - Cardinal River Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,092,806	1,495,181	1,572,804	1,633,108	1,516,367	1,313,055	1,091,143
		Teck Coal - Coal Mountain Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,424,127	1,421,354	1,887,957	1,809,733	1,628,620	1,445,040	1,242,759
		Teck Coal - Elkview Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,368,303	3,913,092	3,586,916	4,646,931	4,845,901	5,037,364	4,989,930
		Teck Coal - Fording River Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,289,821	5,397,546	5,528,433	5,424,005	5,378,044	5,569,406	4,752,427
		Teck Coal - Greenhills Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,381,438	3,006,291	3,696,081	4,631,785	4,168,510	4,331,455	4,277,066
		Teck Coal - Line Creek Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,225,069	1,564,854	1,840,460	1,805,510	1,780,092	1,868,994	1,743,128
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,781,564</b>	<b>16,798,318</b>	<b>18,112,651</b>	<b>19,951,073</b>	<b>19,317,534</b>	<b>19,565,314</b>	<b>18,096,452</b>
Diamonds	Dominion Diamond	EKATI Diamond Mine	2,154,000	2,202,000	2,968,000	3,187,000	2,767,000	3,418,000	2,615,000	2,668,000	2,619,000	2,321,752	2,131,758	2,152,978	2,426,678	2,703,691	2,770,926	2,889,246
		<b>Total</b>	<b>2,154,000</b>	<b>2,202,000</b>	<b>2,968,000</b>	<b>3,187,000</b>	<b>2,767,000</b>	<b>3,418,000</b>	<b>2,615,000</b>	<b>2,668,000</b>	<b>2,619,000</b>	<b>2,321,752</b>	<b>2,131,758</b>	<b>2,152,978</b>	<b>2,426,678</b>	<b>2,703,691</b>	<b>2,770,926</b>	<b>2,889,246</b>
	De Beers Canada Inc.	Snap Lake Mine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,201,558	1,311,096	NA	1,510,174	NA
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>673,870</b>	<b>0</b>	<b>787,009</b>	<b>792,096</b>	<b>816,232</b>	<b>852,773</b>	<b>NA</b>
	Diavik Diamond Mines Inc.	Diavik Diamond Mine	1,474,000	910,000	1,942,000	1,474,000	2,009,000	2,121,000	2,210,000	2,704,000	2,850,000	2,353,186	2,628,793	NA	NA	NA	2,542,903	NA
		<b>Total</b>	<b>1,474,000</b>	<b>910,000</b>	<b>1,942,000</b>	<b>1,474,000</b>	<b>2,009,000</b>	<b>2,121,000</b>	<b>2,210,000</b>	<b>2,704,000</b>	<b>2,850,000</b>	<b>2,353,186</b>	<b>2,628,793</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,542,903</b>	<b>NA</b>
Gold	Agnico-Eagle Mines	Goldex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	665,081	
		Kittila	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	811,000
		Lapa	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	315,348
		LaRonde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,935,938
		Mascota/Pinos Altos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,121,374
		Meadowbank	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,133,823
		La India	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	595,839
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,578,403</b>	
	Barrick Gold Corporation	Hemlo	634,000	729,000	795,000	791,000	789,000	765,000	717,000	691,000	649,000	2,625,988	1,229,996	1,280,667	1,302,002	1,367,472	1,267,936	1,212,722
		<b>Total</b>	<b>634,000</b>	<b>729,000</b>	<b>795,000</b>	<b>791,000</b>	<b>789,000</b>	<b>765,000</b>	<b>717,000</b>	<b>691,000</b>	<b>649,000</b>	<b>2,625,988</b>	<b>1,229,996</b>	<b>1,280,667</b>	<b>1,302,002</b>	<b>1,367,472</b>	<b>1,267,936</b>	<b>1,212,722</b>
	IAMGOLD Corporation	Essakane	NA	NA	NA	NA	NA	NA	NA	NA	NA	493,793	1,036,915	1,893,829	2,321,538	2,562,923	3,681,934	3,923,015
		Mouska	NA	NA	NA	NA	NA	NA	62,000	70,000	70,000	76,664	79,552	84,056	85,744	83,982	33,968	NA
		Mupane	NA	NA	NA	NA	NA	NA	314,000	355,000	246,000	272,221	391,638	NA	NA	NA	NA	NA
		Rosebel Gold Mines N.V.	NA	NA	NA	NA	NA	NA	1,362,000	1,465,000	1,670,000	1,986,623	2,174,824	2,241,150	2,469,201	2,650,440	2,947,134	2,889,232
		Westwood Project	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	310,507	375,319	451,073	637,998	700,969	687,826
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,738,000</b>	<b>1,890,000</b>	<b>1,986,000</b>	<b>2,829,301</b>	<b>3,993,436</b>	<b>4,594,354</b>	<b>5,327,556</b>	<b>5,935,343</b>	<b>7,364,005</b>	<b>7,500,073</b>		
First Quantum Minerals	Troilus (closed)	NA	NA	NA	999,000	965,000	1,071,000	1,011,000	1,018,000	1,100,000	2,491,720	377,777	27,894	NA	NA	8,928	10,022	
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>999,000</b>	<b>965,000</b>	<b>1,071,000</b>	<b>1,011,000</b>	<b>1,018,000</b>	<b>1,100,000</b>	<b>2,491,720</b>	<b>377,777</b>	<b>27,894</b>	<b>0</b>	<b>0</b>	<b>8,928</b>	<b>10,022</b>		
New Gold	New Afton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	201,607	984,486	
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>201,607</b>	<b>984,486</b>		
Oil Sands	Shell Canada Energy	Shell Albian Sands	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
		<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	
	Suncor Energy Inc.	Oil Sands Facility	NA	NA	NA	94,611,000	104,604,000	91,976,000	113,528,000	116,354,000	114,790,000	110,944,137	111,673,225	111,829,256	70,930,826	NA	68,295,148	NA
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>94,611,000</b>	<b>104,604,000</b>	<b>91,976,000</b>	<b>113,528,000</b>	<b>116,354,000</b>	<b>114,790,000</b>	<b>110,944,137</b>	<b>111,673,225</b>	<b>111,829,256</b>	<b>70,930,826</b>	<b>0</b>	<b>68,295,148</b>	<b>NA</b>		
Syncrude Canada Ltd.	Syncrude Canada Ltd.	89,944,000	116,495,000	116,172,000	113,321,000	118,314,000	119,799,000	181,921,000	173,541,000	161,478,000	138,465,000	144,412,000	142,393,000	142,901,000	NA	139,000,000	133,676,000	
<b>Total</b>	<b>89,944,000</b>	<b>116,495,000</b>	<b>116,172,000</b>	<b>113,321,000</b>	<b>118,314,000</b>	<b>119,799,000</b>	<b>181,921,000</b>	<b>173,541,000</b>	<b>161,478,000</b>	<b>138,465,000</b>	<b>144,412,000</b>	<b>142,393,000</b>	<b>142,901,000</b>	<b>0</b>	<b>139,000,000</b>	<b>133,676,000</b>		
Uranium	Cameco Corporation	Key Lake Operation	NA	NA	NA	NA	NA	NA	786,632	835,005	817,721	825,739	869,080	964,190	892,310	881,122	814,053	
		McArthur River Operation	NA	NA	NA	NA	NA	NA	NA	662,216	723,141	762,583	743,057	821,354	891,015	931,285	982,495	787,797
		Rabbit Lake Operation	NA	NA	NA	NA	NA	NA	NA	802,396	948,698	1,001,305	892,641	990,458	964,830	1,000,728	1,025,404	995,890
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,251,244</b>	<b>2,506,844</b>	<b>2,581,609</b>	<b>2,461,437</b>	<b>2,680,892</b>	<b>2,820,035</b>	<b>2,824,323</b>	<b>2,889,021</b>	<b>2,597,740</b>

Note: NA = Data not available

**MAC Member Facility Total GHG Emissions (tonnes CO<sub>2</sub>e) 2001-2015**

Sector	Company	Facility	Base Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	
Base Metals	ArcelorMittal Mines Canada	Mont-Wright	260,400	179,900	197,500	218,200	224,600	204,700	234,600	162,500	177,800	151,746	158,764	155,627	153,885	248,758	244,853	1,033,265	
		Port-Cartier	765,300	635,800	759,200	800,700	861,700	765,900	872,600	989,800	903,900	724,610	991,215	976,705	493,896	265,212	265,992		
		<b>Total</b>	<b>1,025,700</b>	<b>815,700</b>	<b>956,700</b>	<b>1,018,900</b>	<b>1,086,300</b>	<b>970,600</b>	<b>1,107,200</b>	<b>1,152,300</b>	<b>1,081,700</b>	<b>876,356</b>	<b>1,149,979</b>	<b>1,132,332</b>	<b>647,781</b>	<b>513,970</b>	<b>510,845</b>	<b>1,033,265</b>	
	HudBay Minerals Inc.	Hudson Bay Mining and Smelting Co., Limited	NA	NA	NA	NA	NA	NA	NA	NA	214,200	217,700	201,886	140,372	67,217	74,114	54,235	69,951	59,965
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>214,200</b>	<b>217,700</b>	<b>201,886</b>	<b>140,372</b>	<b>67,217</b>	<b>74,114</b>	<b>54,235</b>	<b>69,951</b>	<b>59,965</b>
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,300</b>	<b>55,700</b>	<b>59,800</b>	<b>77,400</b>	<b>111,360</b>	<b>116,800</b>	<b>97,430</b>	<b>146,714</b>	<b>169,342</b>	<b>237,546</b>	<b>267,299</b>	<b>341,229</b>	<b>61,106</b>	
	First Quantum Minerals	Çayeli Mine	NA	NA	NA	4,700	36,800	41,000	44,700	48,300	50,700	48,057	48,089	50,957	51,006	52,750	42,500	41,971	
		Cobre Las Cruces	NA	NA	NA	NA	NA	NA	15,200	59,260	62,500	45,035	89,726	107,867	145,276	178,074	191,000	NA	
		Cobre Panama	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,305	6,024	14,649	13,047	81,400	NA	
		Pyhäsalmi Mine	NA	NA	NA	4,600	18,900	18,800	17,500	3,800	3,600	3,792	4,153	3,710	26,306	23,428	25,480	18,021	
		Closed Properties	NA	NA	NA	NA	NA	NA	NA	NA	NA	546	440	784	309	953	849	557	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,300</b>	<b>55,700</b>	<b>59,800</b>	<b>77,400</b>	<b>111,360</b>	<b>116,800</b>	<b>97,430</b>	<b>146,714</b>	<b>169,342</b>	<b>237,546</b>	<b>267,299</b>	<b>341,229</b>	<b>61,106</b>	
	Imperial Metals	Mount Polley	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47,486	53,633	47,688	23,294	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47,486</b>	<b>53,633</b>	<b>47,688</b>	<b>23,294</b>	
	Iron Ore Company of Canada	Labrador City	NA	NA	871,200	1,108,200	921,900	1,131,000	1,135,000	1,106,300	1,241,900	834,871	956,367	981,107	741,091		2,048,381	NA	
		Sept-Iles	NA	NA	93,700	106,000	83,700	94,400	91,800	82,600	89,300	72,105	88,216	97,982	99,128		303,162	NA	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>964,900</b>	<b>1,214,200</b>	<b>1,005,600</b>	<b>1,225,400</b>	<b>1,226,800</b>	<b>1,188,900</b>	<b>1,331,200</b>	<b>906,976</b>	<b>1,044,583</b>	<b>1,079,089</b>	<b>840,219</b>		<b>2,351,543</b>	<b>NA</b>	
	KGHM International	Morrison	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10,489	NA
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,489</b>	<b>NA</b>
	Nyrstar	Nyrstar Myra Falls	NA	NA	NA	NA	NA	26,100	23,400	NA	NA	8,393	6,509	6,934					
		Langlois	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,964	14,544	20,120	NA	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26,100</b>	<b>23,400</b>	<b>0</b>	<b>0</b>	<b>8,393</b>	<b>6,509</b>	<b>6,934</b>	<b>7,964</b>	<b>14,544</b>	<b>20,120</b>	<b>6,726</b>	<b>3,271</b>
	Teck Resources Limited	Duck Pond Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	10,071	8,994	9,108	9,257	10,239	9,896	NA	
		Highland Valley Copper	NA	91,000	94,400	108,300	87,600	97,200	114,900	131,600	163,200	160,450	195,460	193,380	185,508	191,079	205,321	221,297	
		Trail Smelter	353,600	238,300	336,600	359,800	378,500	280,900	416,300	368,400	380,200	368,577	409,047	430,737	443,135	431,381	407,037	400,882	
		<b>Total</b>	<b>353,600</b>	<b>329,300</b>	<b>431,000</b>	<b>468,100</b>	<b>466,100</b>	<b>378,100</b>	<b>531,200</b>	<b>500,000</b>	<b>543,400</b>	<b>539,099</b>	<b>613,501</b>	<b>633,225</b>	<b>637,900</b>	<b>839,003</b>	<b>622,255</b>	<b>622,179</b>	
	Vale	Manitoba Operations	NA	NA	NA	NA	69,500	NA	68,300	77,500	54,151	60,990	61,558	68,371	70,388	50,855	79,504	84,047	
		Ontario Operations - Port Colborne Refinery and Sudbury Operations **	NA	NA	NA	NA	1,009,800	850,900	725,700	813,500	834,700	806,217	535,630	633,760	709,235	700,175	600,526	731,031	
		VINL Labrador Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	60,497	67,193	88,033	84,463	87,973	84,668	87,604	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,079,300</b>	<b>850,900</b>	<b>794,000</b>	<b>891,000</b>	<b>888,851</b>	<b>927,704</b>	<b>664,381</b>	<b>790,164</b>	<b>864,086</b>	<b>176,911</b>	<b>764,698</b>	<b>902,682</b>	
Glencore (Copper)	CCR Refinery	123,400	79,400	70,300	80,200	88,100	83,200	73,500	71,400	65,400	62,124	58,102	54,250	53,901	59,177	60,875	56,947		
	Horne Smelter	143,800	111,500	88,000	61,500	75,400	71,900	94,300	88,800	72,800	115,197	116,716	122,504	118,159	117,734	117,884	103,644		
	<b>Total</b>	<b>267,200</b>	<b>190,900</b>	<b>158,300</b>	<b>141,700</b>	<b>163,500</b>	<b>155,100</b>	<b>167,800</b>	<b>160,200</b>	<b>138,200</b>	<b>177,321</b>	<b>174,818</b>	<b>176,754</b>	<b>172,060</b>	<b>176,911</b>	<b>178,758</b>	<b>160,591</b>		
Glencore (Nickel)	Raglan Mine	108,900	121,400	120,400	122,900	129,200	132,600	140,900	159,000	158,600	153,056	149,713	165,813	180,069	192,253	174,833	159,653		
	Sudbury Operations	291,000	316,500	350,700	321,700	322,500	343,200	290,300	359,000	350,200	210,789	234,677	238,952	238,823	236,047	206,769	193,031		
	<b>Total</b>	<b>399,900</b>	<b>437,900</b>	<b>471,100</b>	<b>444,600</b>	<b>451,700</b>	<b>475,800</b>	<b>431,200</b>	<b>518,000</b>	<b>508,800</b>	<b>363,845</b>	<b>384,390</b>	<b>404,765</b>	<b>418,892</b>	<b>309,499</b>	<b>381,602</b>	<b>352,684</b>		
Glencore (Zinc)	Brunswick Smelter	216,600	174,900	168,700	120,200	178,100	186,200	215,700	203,900	238,600	213,926	199,067	178,601	190,298	272,259	248,030	200,351		
	CEZinc	48,900	49,400	47,000	54,500	45,600	44,700	36,500	47,300	46,200	48,105	31,817	31,151	28,916	37,240	57,508	38,283		
	Kidd Operations*	518,900	530,900	599,800	484,800	509,100	518,700	496,500	525,900	473,700	209,732	209,199	99,763	95,577	95,922	89,563	83,651		
	<b>Total</b>	<b>537,800</b>	<b>501,000</b>	<b>484,900</b>	<b>445,500</b>	<b>489,600</b>	<b>507,100</b>	<b>465,100</b>	<b>450,900</b>	<b>477,000</b>	<b>447,685</b>	<b>230,884</b>	<b>209,752</b>	<b>219,214</b>	<b>309,499</b>	<b>305,537</b>	<b>322,285</b>		
<b>Sector Total</b>		<b>2,584,200</b>	<b>2,274,800</b>	<b>3,466,900</b>	<b>3,742,300</b>	<b>4,797,800</b>	<b>4,648,900</b>	<b>4,833,800</b>	<b>5,197,980</b>	<b>5,316,851</b>	<b>4,563,623</b>	<b>4,564,432</b>	<b>4,679,035</b>	<b>4,131,814</b>	<b>2,672,769</b>	<b>5,613,601</b>	<b>3,541,322</b>		
Coal	Teck Resources Limited	Teck Coal - Cardinal River Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	122,709	167,315	164,970	172,097	164,482	152,640	134,428	
		Teck Coal - Coal Mountain Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	141,047	139,703	165,219	176,127	155,863	140,165	131,339	
		Teck Coal - Elkview Operations	NA	NA	NA	NA	NA	NA	225,300	375,200	327,500	291,994	331,516	287,422	363,642	369,933	395,239	383,484	

MAC Member Facility Total GHG Emissions (tonnes CO2e) 2001-2015

		Teck Coal - Fording River Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	400,858	494,949	483,196	481,561	481,458	492,904	415,068	
		Teck Coal - Greenhills Operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	304,587	298,833	314,800	416,894	343,660	382,128	336,880	
		Teck Coal - Line Creek Operations	NA	NA	NA	NA	NA	NA	225,300	375,200	327,500	103,523	1,563,261	1,571,201	162,446	164,100	161,655	152,945	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450,600</b>	<b>750,400</b>	<b>655,000</b>	<b>1,364,717</b>	<b>2,995,577</b>	<b>2,986,808</b>	<b>1,772,767</b>	<b>1,679,496</b>	<b>1,724,731</b>	<b>1,554,145</b>	
		<b>Sector Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>450,600</b>	<b>750,400</b>	<b>655,000</b>	<b>1,364,717</b>	<b>2,995,577</b>	<b>2,986,808</b>	<b>1,772,767</b>	<b>1,679,496</b>	<b>1,724,731</b>	<b>1,554,145</b>	
Diamonds	Dominion Diamonds	EKATI Diamond Mine	158,700	162,600	219,200	235,400	204,900	253,000	193,400	192,400	188,600	165,593	150,995	172,644	172,644	192,665	200,110	208,533	
		<b>Total</b>	<b>158,700</b>	<b>162,600</b>	<b>219,200</b>	<b>235,400</b>	<b>204,900</b>	<b>253,000</b>	<b>193,400</b>	<b>192,400</b>	<b>188,600</b>	<b>165,593</b>	<b>150,995</b>	<b>172,644</b>	<b>172,644</b>	<b>192,665</b>	<b>200,110</b>	<b>208,533</b>	
	De Beers Canada Inc.	Snap Lake Mine	NA	NA	NA	NA	NA	NA	NA	NA	NA	70,887	74,377	88,634	96,523	NA	111,139	NA	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>116,291</b>	<b>101,875</b>	<b>141,471</b>	<b>149,235</b>	<b>138,208</b>	<b>168,246</b>	<b>NA</b>	
	Diavik Diamond Mines Inc.	Diavik Diamond Mine	107,500	65,000	141,600	107,500	148,300	155,500	162,000	198,709	209,710	172,992	188,746	191,583	NA	NA	182,427	NA	
		<b>Total</b>	<b>107,500</b>	<b>65,000</b>	<b>141,600</b>	<b>107,500</b>	<b>148,300</b>	<b>155,500</b>	<b>162,000</b>	<b>198,709</b>	<b>209,710</b>	<b>172,992</b>	<b>188,746</b>	<b>191,583</b>	<b>NA</b>	<b>NA</b>	<b>182,427</b>	<b>NA</b>	
	<b>Sector Total</b>	<b>266,200</b>	<b>227,600</b>	<b>360,800</b>	<b>342,900</b>	<b>353,200</b>	<b>408,500</b>	<b>355,400</b>	<b>391,109</b>	<b>398,310</b>	<b>454,876</b>	<b>441,616</b>	<b>505,698</b>	<b>321,879</b>	<b>330,873</b>	<b>550,783</b>	<b>208,533</b>		
Gold	Agnico Eagle Mines	Goldex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11,545	
		Kittila	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,229
		Lapa	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,988
		LaRonde	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29,452
		Mascota/Pinos Altos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50,243
		<b>Total</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>336,043</b>
	Barrick Gold Corporation	Hemlo	38,900	56,900	62,200	64,200	62,700	NA	48,400	44,000	41,400	76,477	78,695	81,407	82,563	86,953	70,930	66,912	
		<b>Total</b>	<b>38,900</b>	<b>56,900</b>	<b>62,200</b>	<b>64,200</b>	<b>62,700</b>	<b>0</b>	<b>48,400</b>	<b>44,000</b>	<b>41,400</b>	<b>76,477</b>	<b>78,695</b>	<b>81,407</b>	<b>82,563</b>	<b>86,953</b>	<b>70,930</b>	<b>66,912</b>	
	IAMGOLD Corporation	Essakane	NA	NA	NA	NA	NA	NA	NA	NA	NA	35,205	75,972	140,416	172,051	200,133	287,428	307,944	
		Mouska	NA	NA	NA	NA	NA	NA	700	910	810	1,052	1,011	1,246	1,409	1,173	620		
		Mupane	NA	NA	NA	NA	NA	NA	40,400	56,700	51,600	45,121	61,548	NA	NA	NA	NA		
		Rosebel Gold Mines N.V.	NA	NA	NA	NA	NA	NA	83,800	88,100	101,600	118,917	121,574	123,394	148,079	147,622	161,029	158,423	
		Westwood Project	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	4,780	6,466	8,480	11,266	13,104	12,926	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>124,900</b>	<b>145,710</b>	<b>154,010</b>	<b>200,295</b>	<b>264,885</b>	<b>271,522</b>	<b>330,019</b>	<b>360,194</b>	<b>462,181</b>	<b>479,293</b>		
First Quantum Minerals	Troilus	NA	NA	NA	36,000	33,800	37,100	32,400	32,500	37,400	17,431	6,376	305	220	NA	NA	166		
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36,000</b>	<b>33,800</b>	<b>37,100</b>	<b>32,400</b>	<b>32,500</b>	<b>37,400</b>	<b>17,431</b>	<b>6,376</b>	<b>305</b>	<b>220</b>	<b>0</b>	<b>0</b>	<b>166</b>			
New Gold	New Afton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13,661	13,029	15,670			
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13,661</b>	<b>13,029</b>	<b>15,670</b>			
	<b>Sector Total</b>	<b>38,900</b>	<b>56,900</b>	<b>62,200</b>	<b>100,200</b>	<b>96,500</b>	<b>37,100</b>	<b>205,700</b>	<b>222,210</b>	<b>232,810</b>	<b>294,203</b>	<b>349,956</b>	<b>353,234</b>	<b>412,802</b>	<b>447,147</b>	<b>546,140</b>	<b>561,875</b>		
Oil Sands	Shell Canada Energy	Shell Albian Sands	NA	NA	NA	136,200	3,185,265	3,268,618	3,240,357	3,457,200	3,529,100	3,657,675	4,044,433	6,011,041	6,338,700	6,462,085	6,446,831	5,889,534	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>172,200</b>	<b>3,185,265</b>	<b>3,268,618</b>	<b>3,240,357</b>	<b>3,457,200</b>	<b>3,529,100</b>	<b>3,657,675</b>	<b>4,044,433</b>	<b>6,011,041</b>	<b>6,338,700</b>	<b>6,462,085</b>	<b>6,446,831</b>	<b>5,889,534</b>	
	Suncor Energy Inc.	Oil Sands Facility	3,703,500	6,584,600	7,928,500	272,400	8,635,200	7,752,100	9,040,100	9,552,000	9,056,300	9,202,464	8,565,579	8,528,337	7,242,615	NA	7,820,277	NA	
		<b>Total</b>	<b>3,703,500</b>	<b>6,584,600</b>	<b>7,928,500</b>	<b>408,600</b>	<b>8,635,200</b>	<b>7,752,100</b>	<b>9,040,100</b>	<b>9,552,000</b>	<b>9,056,300</b>	<b>9,202,464</b>	<b>8,565,579</b>	<b>8,528,337</b>	<b>7,242,615</b>	<b>0</b>	<b>7,820,277</b>	<b>NA</b>	
Syncrude Canada Ltd.	Syncrude Canada Ltd.	7,900,000	8,700,000	9,300,000	580,800	10,367,000	10,357,300	13,490,900	13,005,800	11,775,000	11,666,000	12,721,000	12,873,000	12,366,000	NA	11,900,000	11,470,000		
	<b>Total</b>	<b>7,900,000</b>	<b>8,700,000</b>	<b>9,300,000</b>	<b>853,200</b>	<b>10,367,000</b>	<b>10,357,300</b>	<b>13,490,900</b>	<b>13,005,800</b>	<b>11,775,000</b>	<b>11,666,000</b>	<b>12,721,000</b>	<b>12,860,275</b>	<b>12,366,000</b>	<b>0</b>	<b>11,900,000</b>	<b>11,470,000</b>		
	<b>Sector Total</b>	<b>11,603,500</b>	<b>15,284,600</b>	<b>17,228,500</b>	<b>1,434,000</b>	<b>22,187,465</b>	<b>21,378,018</b>	<b>25,771,357</b>	<b>26,015,000</b>	<b>24,360,400</b>	<b>24,526,139</b>	<b>25,331,012</b>	<b>27,399,653</b>	<b>25,947,315</b>	<b>6,462,085</b>	<b>26,167,108</b>	<b>17,359,534</b>		
Uranium	Cameco Corporation	Key Lake Operation	NA	NA	NA	NA	NA	NA	NA	81,291	86,954	89,873	87,219	90,631	92,594	83,464	84,605	79,280	
		McArthur River Operation	NA	NA	NA	NA	NA	NA	NA	77,912	83,993	94,729	93,032	97,589	103,125	104,768	109,867	92,270	
		Rabbit Lake Operation	NA	NA	NA	NA	NA	NA	NA	Rabbit Lake	92,154	98,728	110,434	102,990	108,051	104,567	106,527	106,978	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>159,203</b>	<b>263,101</b>	<b>283,330</b>	<b>290,685</b>	<b>291,210</b>	<b>303,770</b>	<b>292,799</b>	<b>300,999</b>	<b>278,528</b>		
	<b>Sector Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>159,203</b>	<b>263,101</b>	<b>283,330</b>	<b>290,685</b>	<b>291,210</b>	<b>303,770</b>	<b>292,799</b>	<b>300,999</b>	<b>278,528</b>			

Note: NA = Data not available

\* Reported GHG emissions and energy use data for Glencore Kidd Operations from 2010-2014 was revised in 2016 due to a calculation error in previous reports.

\*\* Reported GHG emissions and energy use data for Vale Sudbury Operations was revised in 2016 due to a calculation error in the 2014 report.

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