

DETAILS ON ECONOMIC INPUT-OUTPUT ASSESSMENT

Non-rechargeable batteries:

Global Warming Potential:

<u>Sector</u>	<u>GWP</u> <u>MTCO2E</u>	<u>CO2</u> <u>MTCO2E</u>	<u>CH4</u> <u>MTCO2E</u>	<u>N2O</u> <u>MTCO2E</u>	<u>CFCs</u> <u>MTCO2E</u>
<i>Total for all sectors</i>	582.	505.	47.7	9.16	20.2
Power generation and supply	176.0	173.0	0	0	2.11
Iron and steel mills	54.7	54.7	0	0	0
Truck transportation	43.1	42.4	0.066	0.592	0
Other basic inorganic chemical manufacturing	33.2	33.2	0	0	0
Primary battery manufacturing	24.2	24.2	0	0	0

Toxic Releases:

<u>Sector</u>	<u>Non-Point</u> <u>Air</u> <u>kg</u>	<u>Point</u> <u>Air</u> <u>kg</u>	<u>Tot. Air</u> <u>Rele</u> <u>ases</u> <u>kg</u>	<u>Water</u> <u>Relea</u> <u>ses</u> <u>kg</u>	<u>Land</u> <u>Releas</u> <u>es</u> <u>kg</u>	<u>U'grou</u> <u>nd</u> <u>Releas</u> <u>es</u> <u>kg</u>	<u>Total</u> <u>Releas</u> <u>es</u> <u>kg</u>	<u>POTW</u> <u>Transf</u> <u>ers</u> <u>kg</u>	<u>Offsite</u> <u>Transf</u> <u>ers</u> <u>kg</u>	<u>Total</u> <u>Rel/Tra</u> <u>ns</u> <u>kg</u>
<i>Total for all sectors</i>	42.6	151.	194.	46.3	1630	69.2	1940	66.8	409.	2410
335912 Primary battery manufacturing	10.0	8.24	18.2	0.248	0.009	0	18.5	0.051	247.0	265.0
325180 Other basic inorganic chemical manufacturing	5.06	17.2	22.3	6.98	14.0	20.0	63.3	11.0	8.31	82.6
326290 Other rubber product manufacturing	1.85	4.93	6.78	0.004	0.232	0	7.01	1.71	4.07	12.8
331492 Secondary	1.83	2.78	4.61	0.523	2.78	0.002	7.91	10.6	24.6	43.1

	<u>Sector</u>	<u>Non-Point Air kg</u>	<u>Point Air kg</u>	<u>Tot. Air Releases kg</u>	<u>Water Releases kg</u>	<u>Land Releases kg</u>	<u>U'ground Releases kg</u>	<u>Total Releases kg</u>	<u>POTW Transfers kg</u>	<u>Offsite Transfers kg</u>	<u>Total Rel/Trans kg</u>
	processing of other nonferrous										
325190	Other basic organic chemical manufacturing	1.77	3.02	4.79	1.80	0.104	5.11	11.8	4.08	1.52	17.4

Energy consumption:

	<u>Sector</u>	<u>Total TJ</u>	<u>Elec MkWh</u>	<u>Coal TJ</u>	<u>NatGas TJ</u>	<u>LPG TJ</u>	<u>MotGas TJ</u>	<u>Distillate TJ</u>	<u>Kero TJ</u>	<u>JetFuel TJ</u>	<u>Residual TJ</u>
	<i>Total for all sectors</i>	7.59	0.452	1.88	3.71	0.232	0.220	0.661	0.000	0.175	0.200
221100	Power generation and supply	2.08	0.000	1.65	0.369	0.000	0.000	0.000	0	0	0.063
325180	Other basic inorganic chemical manufacturing	0.750	0.067	0	0.628	0.037	0.007	0.002	0	0	0.002
331111	Iron and steel mills	0.693	0.034	0.033	0.589	0.001	0.005	0.004	0	0.000	0.023
335912	Primary battery manufacturing	0.617	0.115	0	0.459	0.000	0.005	0.026	0	0	0
484000	Truck transportation	0.309	0.001	0	0.006	0.001	0.045	0.255	0	0	0

Dyno Torch:

Global Warming Potential:

	<u>Sector</u>	<u>Total Economic \$mill</u>	<u>Value Added \$mill</u>	<u>Direct Economic \$mill</u>	<u>Direct Economic %</u>	<u>GWP MTCO2E</u>	<u>CO2 MTCO2E</u>	<u>CH4 MTCO2E</u>	<u>N2O MTCO2E</u>	<u>CFCs MTCO2E</u>
	<i>Total for all sectors</i>	2.72	0.970	1.80	66.2	2030	1550	408.	34.5	35.1

	<u>Sector</u>	<u>Total Economic Smill</u>	<u>Value Added Smill</u>	<u>Direct Economic Smill</u>	<u>Direct Economic %</u>	<u>GWP MTCO2E</u>	<u>CO2 MTCO2E</u>	<u>CH4 MTCO2E</u>	<u>N2O MTCO2E</u>	<u>CFCs MTCO2E</u>
4110	Petroleum refineries	0.506	0.049	0.463	91.5	353.0	351.0	1.95	0	0
5211	Plastics material and resin manufacturing	0.429	0.098	0.421	98.0	160	160	0	0	0
1000	Oil and gas extraction	0.363	0.145	0.241	66.3	339.0	56.8	282.0	0	0
1111	Iron and steel mills	0.140	0.033	0.124	88.7	177.0	177.0	0	0	0
0000	Wholesale trade	0.105	0.070	0.056	53.8	7.49	7.49	0	0	0

Supercapacitor:

Global Warming Potential:

	<u>Sector</u>	<u>GWP MTCO2E</u>	<u>CO2 MTCO2E</u>	<u>CH4 MTCO2E</u>	<u>N2O MTCO2E</u>	<u>CFCs MTCO2E</u>
	<i>Total for all sectors</i>	<i>568.</i>	<i>467.</i>	<i>49.5</i>	<i>7.09</i>	<i>44.3</i>
221100	Power generation and supply	190	187.0	0	0	2.28
331111	Iron and steel mills	62.9	62.9	0	0	0
484000	Truck transportation	31.3	30.8	0.048	0.430	0
562000	Waste management and remediation services	26.1	4.13	22.0	0.032	0
335312	Motor and generator manufacturing	16.3	16.3	0	0	0

Toxic Releases:

	<u>Sector</u>	<u>Non-Point Air</u> <u>kg</u>	<u>Point Air</u> <u>kg</u>	<u>Tot Air</u> <u>Release</u> <u>s</u> <u>kg</u>	<u>Water</u> <u>Release</u> <u>s</u> <u>kg</u>	<u>Land</u> <u>Release</u> <u>s</u> <u>kg</u>	<u>U'groun</u> <u>d</u> <u>Release</u> <u>s</u> <u>kg</u>	<u>Total</u> <u>Release</u> <u>s</u> <u>kg</u>	<u>POTW</u> <u>Transfe</u> <u>rs</u> <u>kg</u>	<u>Offsite</u> <u>Transfe</u> <u>rs</u> <u>kg</u>	<u>Total</u> <u>Rel/T</u> <u>rans</u> <u>kg</u>
	<i>Total for all sectors</i>	33.3	163.	196.	46.9	1660	43.1	1950	93.0	203.	2250
335312	Motor and generator manufacturing	5.29	24.2	29.4	0.002	0.056	0	29.5	0.023	9.13	38.7
33441A	All other electronic component manufacturing	3.50	9.07	12.6	4.53	1.13	0	18.2	47.6	25.5	91.3
331112	Ferroalloy and related product manufacturing	2.21	0.475	2.68	0.527	8.05	0	11.3	0.004	0.887	12.2
331111	Iron and steel mills	1.75	1.63	3.37	22.0	14.6	0.239	40.2	0.577	74.2	115.0
325211	Plastics material and resin manufacturing	1.74	3.77	5.51	0.411	0.022	2.01	7.96	3.27	0.483	11.7

Energy Consumption:

	<u>Sector</u>	<u>Total TJ</u>	<u>Elec MkWh</u>	<u>Coal TJ</u>	<u>NatGas TJ</u>	<u>LPG TJ</u>	<u>MotGas TJ</u>	<u>Distillate TJ</u>	<u>Kero TJ</u>	<u>JetFuel TJ</u>	<u>Residual TJ</u>
	<i>Total for all sectors</i>	6.71	0.450	1.96	2.78	0.153	0.308	0.615	0.000	0.219	0.168
221100	Power generation and supply	2.25	0.000	1.78	0.398	0.000	0.000	0.000	0	0	0.068
331111	Iron and steel mills	0.796	0.039	0.037	0.677	0.002	0.006	0.004	0	0.000	0.026
335312	Motor and generator manufacturing	0.379	0.070	0	0.212	0.000	0.057	0.028	0	0	0.003
33441A	All other electronic component manufacturing	0.304	0.069	0	0.165	0.006	0.040	0.015	0	0	0.002
484000	Truck transportation	0.224	0.000	0	0.005	0.000	0.033	0.186	0	0	0