

# NATIONAL BENCHMARKS

## 2008 SUSTAINABLE DEVELOPMENT AT A GLANCE

The Environmental Commitment and Responsibility (ECR) Program began in 1997 as an industry-wide environmental initiative of the electric utility members of the Canadian Electricity Association (CEA). The program demonstrated an industry commitment to environmental performance improvement and the implementation of an Environmental Management System (EMS) at member utilities. NB Power has been an active and engaged participant in the program and participated in the transformation of this program into the CEA's Sustainable Electricity Program.

The launch of the Sustainable Electricity Program is the start of a long-term transformation on how the electricity sector does business. The industry considers sustainable development to be so important that participation in this program is a condition of membership at CEA. With sustainable electricity, the electricity sector has now made a commitment to our stakeholders, to continue to improve our overall sustainable development performance and report our progress in a transparent and timely manner.

<b>Environment</b>	<b>CEA</b>	<b>NB Power</b>
Total Gross Annual SO <sub>2</sub> Emission (tonnes)	422,112	21,780
Mass Gross SO <sub>2</sub> Emitted Per Unit of Net Fossil Generation (g/kWh)	4.04	3.06
Total Gross Annual NO <sub>x</sub> Emission (tonnes)	185,552	12,330
Mass Gross NO <sub>x</sub> Emitted Per Unit of Net Fossil Generation (g/kWh)	1.76	1.73
Total Gross Annual PM <sub>10</sub> Emissions (tonnes)	10,542	609.4
Total Gross Annual PM <sub>2.5</sub> Emissions (tonnes)	5,253	513.4
Total Gross Annual Mercury Emission (kilograms)	1,736	44
Mass Gross Mercury Emitted Per Unit of Net Fossil Generation (kg/TWh)	16.60	6.18
Total dollar amount of fines in reporting year (\$)	0	0
Number of Priority Spills	67	0
Total Gross Annual Direct CO <sub>2</sub> eq Emissions from Fossil Generation (tonnes)	98,896,801	6,170,000
Mass Gross CO <sub>2</sub> eq Emitted Per Unit of Net Fossil Generation (kg/kWh)	0.94	0.867
Mass Gross CO <sub>2</sub> eq Emitted Per Unit of Net System Generation (kg/kWh)	0.29	0.532
Total kg of SF <sub>6</sub> Used for Maintenance Purposes (topping up)	6,859	31.5
Total inventory of high level PCB material in storage (tonnes)	20	0
Total inventory of low level PCB material in storage (tonnes)	1,144	0
Companies with an ISO consistent EMS (%)	88	100 (8 of 8 EMS within NB Power Group)

<b>Society</b>	<b>CEA</b>	<b>NB Power</b>
All injury/illness frequency rate (injuries per 200,000 hours)	2.88	0.92
Lost time injury/illness frequency rate (lost time injuries per 200,000 hours)	0.83	0.04
Lost time injury severity rate (calendar days lost per 200,000 hours)	21	0.84
Companies with public education programs (%)	96	100 (Yes)
Companies with a process for responding to stakeholders concerns (%)	93	100 (Yes)
Companies with procedures for early consultation or engagement with Aboriginal communities during project planning and development	69	100 (Yes)
Companies with an Aboriginal Affairs group or senior Aboriginal advisory positions (%)	64	100 (Yes)
Companies with business relationships or partnerships with Aboriginal communities (%)	69	100 (Yes)

<b>Economy</b>	<b>CEA</b>	<b>NB Power</b>
Total value of company charitable donations (\$millions)	22	Data Not Available1
Total annual energy efficiency savings (MWh/yr)	129,236	Data Not Available2
Total energy saved through DSM programs (MWh)	689,837	Data Not Available3
Total capital expenditure on new/refurbished generation infrastructure (\$billions/yr)	3.1	0.334
Total capital expenditure on new/refurbished transmission infrastructure (\$billions/yr)	1.5	0.027
Total capital expenditure on new/refurbished distribution infrastructure (\$billions/yr)	2.0	0.045
System Average Interruption Duration Index (SAIDI) Duration (hours)	6.28	6.85
System Average Interruption Frequency Index (SAIFI) Interruptions (per customer)	2.34	2.72

## Notes:

1. Figure is not readily available under our current trial balance format.
2. A study conducted at the Belledune Generating Station concluded that any opportunities for future efficiency gains would be marginal due to the high level of adoption of technical and management best management practices. Transmission and Distribution have undertaken the development of plans to reduce terminal and substation losses however this activity is in the initial stages of development. NB Power recognizes that our facilities and fleet of over 600 on road vehicles contribute to GHGs. NB Power will lead by example and reduce our energy consumption and associated GHGs from these components of our operations. To date, energy inventories and audits of 60% of our facilities have been completed.
3. NB Power has partnered with Efficiency New Brunswick to promote energy efficiency measures in the residential, community and business sectors of New Brunswick. [www.energycnbc.ca/enb/home.jsp](http://www.energycnbc.ca/enb/home.jsp)



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