

Historical GHG Emissions Summary
Newfoundland and Labrador, 1990-2023
(kt CO₂ equivalent)

National Inventory Report (NIR) Greenhouse Gas Categories		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
NIR TOTAL EMISSIONS ²		9,480	8,420	8,341	8,481	7,563	8,533	8,626	9,164	10,731	9,597	9,112	9,794	11,864	11,655	10,907	10,273	9,908	10,858	10,489	9,903	9,834	10,108	9,681	9,799	10,790	10,967	11,020	10,926	10,682	10,845	8,603	7,981	8,058	7,922
ENERGY		8,730	7,676	7,576	7,696	6,761	7,702	7,795	8,319	9,879	8,747	8,255	8,956	11,037	10,733	9,883	9,423	9,072	10,015	9,633	9,097	8,969	9,190	8,759	8,906	9,913	10,101	10,127	10,007	9,753	9,949	7,690	7,108	7,202	7,072
a.	Stationary Combustion Sources	5,442	4,550	4,500	4,502	3,561	4,550	4,565	4,924	4,281	4,298	4,388	5,045	5,675	5,658	5,223	4,593	4,049	4,943	4,606	4,531	4,367	4,232	3,939	4,357	4,918	5,010	4,997	4,851	4,584	4,877	3,675	3,173	3,204	2,949
	Public Electricity and Heat Production	1,640	1,300	1,503	1,364	726	1,275	1,185	1,242	1,050	827	821	1,710	1,897	1,587	1,288	822	644	1,044	924	824	738	790	768	867	1,205	1,339	1,522	1,528	1,126	1,139	951	646	685	680
	Petroleum Refining Industries	1,033	1,019	860	1,034	464	948	1,090	1,129	891	1,016	1,023	981	1,142	1,088	1,119	900	935	996	752	1,056	992	806	936	876	841	952	1,096	889	847	931	162	37	27	17
	Mining and Upstream Oil and Gas Production	1,160	771	719	655	1,006	990	1,130	1,181	1,191	1,319	1,465	1,206	1,347	1,680	1,598	1,845	1,605	1,842	1,907	1,891	1,857	1,766	1,537	1,668	1,803	1,750	1,400	1,403	1,759	1,970	1,785	1,847	1,820	1,605
	Manufacturing Industries	506	393	316	336	305	319	288	301	233	256	245	260	292	299	310	276	193	181	140	77	72	75	79	72	40	35	39	82	81	50	81	73	89	75
	Construction	33	23	27	22	17	17	14	15	13	12	11	20	31	31	32	24	18	17	22	9	11	15	9	6	7	18	5	6	7	6	5	9	12	17
	Commercial and Institutional	320	311	301	325	339	318	308	361	301	313	311	355	387	432	386	358	289	335	291	205	259	262	203	544	630	598	571	487	316	352	312	282	314	317
	Residential	726	691	714	711	650	626	592	622	527	486	465	504	570	530	479	361	359	519	561	461	427	500	395	316	380	306	353	447	440	420	369	277	249	228
	Agriculture and Forestry	24	41	59	54	53	56	57	74	74	68	47	9	9	11	10	8	6	8	9	8	11	18	11	8	11	12	10	9	7	9	6	10	15	15
b.	Transport ³	3,248	3,104	3,062	3,171	3,191	3,133	3,191	3,239	3,285	3,382	3,535	3,586	3,740	4,046	3,797	3,950	3,795	4,045	4,213	3,952	4,033	4,491	4,303	3,993	4,355	4,539	4,582	4,512	4,384	4,370	3,541	3,595	3,740	3,755
	Aviation	238	233	231	209	217	217	246	257	269	287	297	264	290	372	363	339	303	313	315	287	289	287	310	303	311	307	303	280	289	281	153	175	246	267
	Road Transportation	1,497	1,485	1,511	1,609	1,569	1,499	1,500	1,469	1,482	1,518	1,567	1,609	1,643	1,890	1,726	1,759	1,711	1,978	2,199	1,977	2,060	2,524	2,420	2,267	2,579	2,571	2,553	2,547	2,395	2,328	2,055	2,055	2,083	1,997
	Light-Duty Gasoline Vehicles	620	632	659	679	681	666	656	625	613	607	609	599	611	604	555	577	554	640	679	631	620	691	740	638	692	696	655	629	542	493	436	453	448	404
	Light-Duty Gasoline Trucks	546	540	548	554	547	540	540	535	545	566	574	577	595	615	593	638	632	762	839	814	850	980	1,098	1,001	1,152	1,219	1,126	1,295	1,173	1,126	1,078	1,121	1,158	1,114
	Heavy-Duty Gasoline Vehicles	167	147	133	118	103	91	82	74	71	69	68	68	68	69	65	69	67	78	83	79	81	94	108	93	100	102	99	102	91	86	84	75	76	73
	Motorcycles	3	3	3	3	3	3	3	3	3	4	4	4	4	5	5	6	6	9	11	12	13	20	23	21	24	25	25	26	23	21	18	15	17	16
	Light-Duty Diesel Vehicles	1	1	1	2	1	1	1	1	1	1	1	2	2	3	3	3	4	4	5	4	5	4	5	4	5	4	5	4	4	3	3	2	2	2
	Light-Duty Diesel Trucks	3	4	4	6	6	5	6	6	6	6	7	8	7	11	9	7	7	6	6	5	4	6	4	4	6	6	8	8	10	12	9	10	11	11
	Heavy-Duty Diesel Vehicles	155	158	162	247	228	193	212	224	243	265	303	351	354	583	495	459	441	479	576	433	488	728	443	506	600	518	547	484	554	587	429	378	370	377
	Propane and Natural Gas Vehicles	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Railways	87	75	75	67	83	85	68	45	55	36	45	44	47	54	41	58	68	46	82	74	87	138	76	83	74	78	76	89	68	94	65	72	83	105
	Marine	744	743	743	743	743	742	752	761	770	779	788	812	837	862	886	911	895	876	862	846	830	769	707	646	584	523	565	598	591	622	569	537	573	616
	Other Transportation	681	566	502	543	579	590	624	707	709	762	839	858	923	868	781	882	819	829	754	767	767	773	791	695	807	1,061	1,085	999	1,040	1,045	700	757	756	770
	Off-Road Agriculture and Forestry	96	68	52	50	49	46	46	52	51	52	58	59	67	65	58	68	63	61	52	55	53	49	48	43	52	72	78	72	81	83	52	58	59	59
	Off-Road Commercial and Institutional	50	41	38	40	41	39	38	41	40	43	44	45	47	44	42	45	41	40	36	36	41	46	45	39	44	61	66	66	68	70	47	57	55	58
	Off-Road Manufacturing, Mining and Construction	452	384	340	372	396	404	432	500	500	516	576	586	634	583	515	593	549	547	484	519	519	517	527	462	544	739	752	665	713	721	451	501	502	519
	Off-Road Residential	6	7	8	10	11	12	13	13	14	19	21	22	23	24	x	25	x	x	30	x	x	27	29	x	28	28	27	27	25	24	23	18	19	17
	Off-Road Other Transportation	77	67	65	72	83	89	94	101	104	132	140	146	152	152	143	150	141	153	152	130	127	134	141	125	139	160	162	168	153	147	127	123	121	117
	Pipeline Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	x	x	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Fugitive Sources	41	22	14	23	9	19	39	157	2,314	1,067	333	325	1,621	1,029	863	880	1,229	1,026	814	613	570	466	517	555	640	552	549	644	785	702	474	340	259	368
	Coal Mining	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Oil and Natural Gas	41	22	14	23	9	19	39	157	2,314	1,067	333	325	1,621	1,029	863	880	1,229	1,026	814	613	570	466	517	555	640	552	549	644	785	702	474	340	259	368
d.	CO ₂ Transport and Storage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDUSTRIAL PROCESSES AND PRODUCT USE		98	80	85	94	97	115	115	135	141	152	149	140	129	204	322	154	130	133	141	170	217	252	208	214	194	188	200	231	241	213	228	218	198	196
a.	Mineral Products	65	52	58	60	69	73	69	83	82	74	2	1	1	1	1	1	2	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Cement Production	61	47	54	57	66	71	66	80	79	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Lime Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Mineral Products Use	4	4	3	3	3	2	2	3	2	2	2	1	1	1	1	1	2	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	
b.	Chemical Industry ⁴	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Adipic Acid Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
c.	Metal Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Iron and Steel Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Aluminum Production	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SF ₆ Used in Magnesium Smelters and Casters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
d.	Production and Consumption																																		

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NIR TOTAL EMISSIONS ²	9,480	8,420	8,341	8,481	7,563	8,533	8,626	9,164	10,731	9,597	9,112	9,794	11,864	11,655	10,907	10,273	9,908	10,858	10,489	9,903	9,834	10,108	9,681	9,799	10,790	10,967	11,020	10,926	10,682	10,845	8,603	7,981	8,058	7,922
Settlements	145	113	113	108	108	113	121	112	104	105	110	125	139	130	123	115	115	110	132	128	121	167	203	379	648	734	633	367	358	348	339	323	318	309
Harvested Wood Products	-1,192	-836	-712	-786	-558	-712	-656	-634	-626	-763	-795	-727	-692	-644	-521	-572	-439	-468	-423	-366	-46	93	81	-14	-274	-190	-131	-25	-59	-12	-31	-45	-6	-14
TOTAL EMISSIONS INCLUDING LAND USE, LAND USE CHANGE AND FORESTRY	13,814	11,751	10,976	11,328	9,630	10,363	9,962	10,171	11,860	10,335	9,838	10,079	12,050	12,075	11,179	10,454	9,733	10,530	10,763	10,144	9,707	9,629	8,862	9,596	10,828	10,995	10,991	10,683	11,124	11,166	8,861	8,028	7,992	8,372

Source: Environment Canada
Emissions per capita and emissions intensity calculated using Statistics Canada population and GDP estimates.
Footnotes:
1. Data may be subject to further revisions in subsequent years
2. NIR total emissions exclude all GHGs from the Land Use, Land-use Change and Forestry sector.
3. Emissions from ethanol and biodiesel are included in the Transport categories using gasoline and diesel respectively.
4. Emissions from Ammonia Production, Nitric Acid Production and Petrochemical Production and Carbon Black categories are included in Non-Energy Products from Fuels and Solvent Use as CO2 eq values within provincial/territorial tables.
5. Emission estimates from consumption of PFCs and NF3, as well as emissions of SF6 from semi-conductor manufacturing, are only available at the national level.
HFC and PFC consumption began in 1995; HFC emissions occurring as a by-product of HCFC production (HCFC-22 exclusively) only occurred in Canada from 1990–1992 and PFC emissions prior to 1995 are the result of by-product CF4 emissions from the use of NF3.
6. Based on chained 2017 dollars.
7. Land use, land use change and forestry estimated on an IPCC basis including forestry, croplands, wetlands, settlements and harvested wood products.
+ Indicates no emissions
x Indicates data has been suppressed to respect confidentiality