

**Historical GHG Emissions Summary  
Newfoundland and Labrador, 1990-2024 <sup>1</sup>**  
(kt CO<sub>2</sub> 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	2024		
<b>NIR TOTAL EMISSIONS <sup>2</sup></b>	<b>9,746</b>	<b>8,653</b>	<b>8,573</b>	<b>8,742</b>	<b>7,860</b>	<b>8,853</b>	<b>8,963</b>	<b>9,542</b>	<b>11,094</b>	<b>9,913</b>	<b>9,484</b>	<b>10,185</b>	<b>12,182</b>	<b>12,020</b>	<b>11,223</b>	<b>10,681</b>	<b>10,316</b>	<b>11,228</b>	<b>10,888</b>	<b>10,203</b>	<b>10,248</b>	<b>10,419</b>	<b>10,082</b>	<b>10,184</b>	<b>11,184</b>	<b>11,397</b>	<b>11,458</b>	<b>11,370</b>	<b>11,158</b>	<b>11,338</b>	<b>9,106</b>	<b>8,209</b>	<b>8,291</b>	<b>8,093</b>	<b>8,620</b>		
<b>ENERGY</b>	<b>8,733</b>	<b>7,676</b>	<b>7,576</b>	<b>7,713</b>	<b>6,758</b>	<b>7,699</b>	<b>7,812</b>	<b>8,352</b>	<b>9,908</b>	<b>8,774</b>	<b>8,277</b>	<b>9,000</b>	<b>11,069</b>	<b>10,753</b>	<b>9,904</b>	<b>9,433</b>	<b>9,097</b>	<b>10,047</b>	<b>9,657</b>	<b>9,152</b>	<b>9,018</b>	<b>9,231</b>	<b>8,858</b>	<b>9,020</b>	<b>10,032</b>	<b>10,245</b>	<b>10,111</b>	<b>9,953</b>	<b>10,128</b>	<b>7,902</b>	<b>7,058</b>	<b>7,166</b>	<b>7,037</b>	<b>7,535</b>			
<b>a. Stationary Combustion Sources</b>	<b>5,464</b>	<b>4,571</b>	<b>4,520</b>	<b>4,539</b>	<b>3,579</b>	<b>4,568</b>	<b>4,603</b>	<b>4,978</b>	<b>4,331</b>	<b>4,346</b>	<b>4,431</b>	<b>5,112</b>	<b>5,733</b>	<b>5,704</b>	<b>5,267</b>	<b>4,623</b>	<b>4,091</b>	<b>4,990</b>	<b>4,647</b>	<b>4,592</b>	<b>4,395</b>	<b>4,242</b>	<b>3,995</b>	<b>4,411</b>	<b>4,958</b>	<b>5,051</b>	<b>5,047</b>	<b>4,862</b>	<b>4,534</b>	<b>4,865</b>	<b>3,700</b>	<b>3,161</b>	<b>3,203</b>	<b>2,954</b>	<b>3,190</b>		
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	675	666		
Petroleum Refining Industries	1,055	1,039	881	1,072	482	967	1,128	1,182	942	1,065	1,067	1,048	1,200	1,134	1,163	929	977	1,042	794	1,117	1,020	817	992	930	882	993	1,146	900	797	919	186	-	27	17	0		
Biofuel Manufacturing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mining and Upstream Oil and Gas Production	1,160	771	719	655	1,006	990	1,030	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	1,600	1,815		
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	91	71		
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	13	13		
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	316	343		
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	263		
Agriculture and Forestry	24	41	59	54	53	56	57	74	74	68	47	9	11	10	8	6	8	9	8	11	18	11	8	11	12	10	9	7	9	6	10	15	18	15	18		
<b>b. Transport <sup>3</sup></b>	<b>3,228</b>	<b>3,083</b>	<b>3,041</b>	<b>3,150</b>	<b>3,170</b>	<b>3,111</b>	<b>3,169</b>	<b>3,216</b>	<b>3,262</b>	<b>3,359</b>	<b>3,512</b>	<b>3,562</b>	<b>3,714</b>	<b>4,018</b>	<b>3,768</b>	<b>3,918</b>	<b>3,766</b>	<b>4,019</b>	<b>4,189</b>	<b>3,930</b>	<b>4,013</b>	<b>4,488</b>	<b>4,315</b>	<b>4,020</b>	<b>4,398</b>	<b>4,605</b>	<b>4,550</b>	<b>4,524</b>	<b>4,495</b>	<b>3,731</b>	<b>3,557</b>	<b>3,704</b>	<b>3,713</b>	<b>3,737</b>			
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	284		
Road Transportation	1,497	1,485	1,511	1,609	1,569	1,499	1,500	1,482	1,518	1,567	1,609	1,643	1,890	1,726	1,759	1,711	1,979	2,199	2,197	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	1,989	1,933	1,933		
Light-Duty Gasoline Vehicles	620	632	659	679	681	666	656	625	613	607	609	599	611	604	555	577	554	640	680	631	620	691	740	638	692	696	655	629	542	493	436	453	448	404	355		
Light-Duty Gasoline Trucks	546	540	548	554	547	540	540	535	545	566	574	577	595	615	593	638	632	763	839	814	850	980	1,098	1,001	1,152	1,219	1,216	1,295	1,173	1,126	1,078	1,121	1,158	1,113	1,072	1,072	
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	70		
Motorcycles	3	3	3	3	3	3	3	3	3	4	4	4	5	5	6	6	9	11	12	13	20	23	21	24	25	25	26	23	21	18	15	17	16	15	15		
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	4	4	3	3	2	2	2	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	5	4	6	6	8	8	10	12	9	10	11	11	12	12	
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	371	407	407	
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	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	90	72	74	90	97	136	136	
Marine	724	723	722	722	721	720	730	738	747	756	765	788	811	834	857	880	866	852	838	825	811	765	719	673	627	581	588	636	732	750	751	497	530	605	605	605	
Other Transportation	681	566	502	543	579	590	624	707	709	762	839	858	923	868	781	862	818	826	818	829	754	767	773	719	695	807	1,061	1,085	999	1,040	700	757	756	754	779		
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	58	60		
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	57	62		
Off-Road Manufacturing, Mining and Construction	452	384	340	372	396	404	432	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	506	524	524		
Off-Road Residential	6	7	8	10	11	12	13	13	14	19	21	22	22	24	x	25	x	30	x	x	27	29	x	28	28	27	27	25	24	23	18	19	19	17	16		
Off-Road Other Transportation	77	67	65	72	83	89	94	101	104	132	140	146	152	152	143	150	140	152	152	130	127	134	141	125	139	160	162	168	153	147	127	123	121	116	117		
Pipeline Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>c. Fugitive Sources</b>	<b>41</b>	<b>22</b>	<b>15</b>	<b>24</b>	<b>9</b>	<b>20</b>	<b>40</b>	<b>158</b>	<b>2,315</b>	<b>1,068</b>	<b>334</b>	<b>326</b>	<b>1,622</b>	<b>1,032</b>	<b>869</b>	<b>892</b>	<b>1,241</b>	<b>1,039</b>	<b>821</b>	<b>630</b>	<b>610</b>	<b>501</b>	<b>548</b>	<b>588</b>	<b>676</b>	<b>585</b>	<b>592</b>	<b>699</b>	<b>894</b>	<b>768</b>	<b>472</b>	<b>340</b>	<b>259</b>	<b>370</b>	<b>608</b>		
Coal Mining	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oil and Natural Gas	41	22	15	24	9	20	40	158	2,315	1,068	334	326	1,622	1,032	869	892	1,241	1,039	821	630	610	501	548	588	676	585	592	699	894	768	472	340	259	370	608	608	
<b>d. CO<sub>2</sub> Transport and Storage</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
<b>INDUSTRIAL PROCESSES AND PRODUCT USE</b>	<b>362</b>	<b>314</b>	<b>319</b>	<b>339</b>	<b>398</b>	<b>439</b>	<b>435</b>	<b>481</b>	<b>475</b>	<b>442</b>	<b>500</b>	<b>487</b>	<b>416</b>	<b>551</b>	<b>619</b>	<b>554</b>	<b>511</b>	<b>471</b>	<b>519</b>	<b>413</b>	<b>576</b>	<b>513</b>	<b>500</b>	<b>470</b>	<b>451</b>	<b>466</b>	<b>498</b>	<b>549</b>	<b>502</b>	<b>518</b>	<b>516</b>	<b>492</b>	<b>461</b>	<b>444</b>	<b>473</b>		
<b>a. Mineral Products</b>	<b>65</b>	<b>52</b>	<b>58</b>	<b>60</b>	<b>69</b>	<b>73</b>	<b>69</b>	<b>83</b>	<b>82</b>	<b>74</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>																			

**Historical GHG Emissions Summary  
Newfoundland and Labrador, 1990-2024 <sup>1</sup>**  
**(kt CO<sub>2</sub> 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	2024
Emissions relative to 2005 (% change)	-8.8	-19.0	-19.7	-18.2	-26.4	-17.1	-16.1	-10.7	3.9	-7.2	-11.2	-4.6	14.1	12.5	5.1	0.0	-3.4	5.1	1.9	-4.5	-4.1	-2.5	-5.6	-4.7	4.7	6.7	7.3	6.4	4.5	6.2	-14.7	-23.1	-22.4	-24.2	-19.3
NL emissions as share of Canadian total (%)	1.6	1.4	1.4	1.4	1.2	1.3	1.3	1.4	1.6	1.4	1.3	1.4	1.6	1.6	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.6	1.5	1.5	1.5	1.3	1.2	1.2	1.2	1.3
<b>LAND USE, LAND-USE CHANGE AND FORESTRY <sup>7</sup></b>	<b>7,170</b>	<b>5,652</b>	<b>4,528</b>	<b>4,452</b>	<b>3,374</b>	<b>2,998</b>	<b>2,364</b>	<b>1,942</b>	<b>2,006</b>	<b>1,635</b>	<b>1,669</b>	<b>1,124</b>	<b>1,005</b>	<b>1,260</b>	<b>1,106</b>	<b>1,029</b>	<b>555</b>	<b>390</b>	<b>900</b>	<b>843</b>	<b>440</b>	<b>-20</b>	<b>-377</b>	<b>191</b>	<b>450</b>	<b>467</b>	<b>379</b>	<b>163</b>	<b>846</b>	<b>589</b>	<b>558</b>	<b>303</b>	<b>170</b>	<b>671</b>	<b>542</b>
Forest land	6,790	4,993	3,788	3,834	2,566	2,380	1,711	1,284	1,383	1,189	1,291	898	554	804	557	567	-14	-129	343	254	-439	-1,056	-1,416	-994	-772	-922	-927	-892	-121	-364	-357	-546	-676	-126	-219
Cropland	25	26	28	29	29	30	32	31	32	35	33	34	36	35	37	37	40	41	41	41	41	39	36	35	34	33	34	38	37	42	52	53	53	58	56
Wetlands	1,397	1,348	1,303	1,260	1,219	1,180	1,142	1,137	1,103	1,058	1,022	990	959	929	901	874	848	823	799	776	754	732	717	769	791	771	733	653	631	608	618	593	572	553	536
Settlements	148	115	115	108	110	115	124	113	105	114	111	126	144	134	134	118	118	122	134	134	125	168	197	373	677	767	649	378	339	298	261	237	217	198	186
Harvested Wood Products	-1,189	-831	-705	-779	-550	-705	-646	-623	-617	-761	-789	-723	-688	-643	-524	-567	-436	-467	-417	-363	-41	97	90	7	-281	-181	-110	-14	-41	5	-17	-34	5	-10	-16

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 CO<sub>2</sub> eq values within provincial/territorial tables.
  5. Emission estimates from consumption of PFCs and NF<sub>3</sub>, as well as emissions of SF<sub>6</sub> 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 CF<sub>4</sub> emissions from the use of NF<sub>3</sub>.
  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