

Infrastructure Economic Account, 2017

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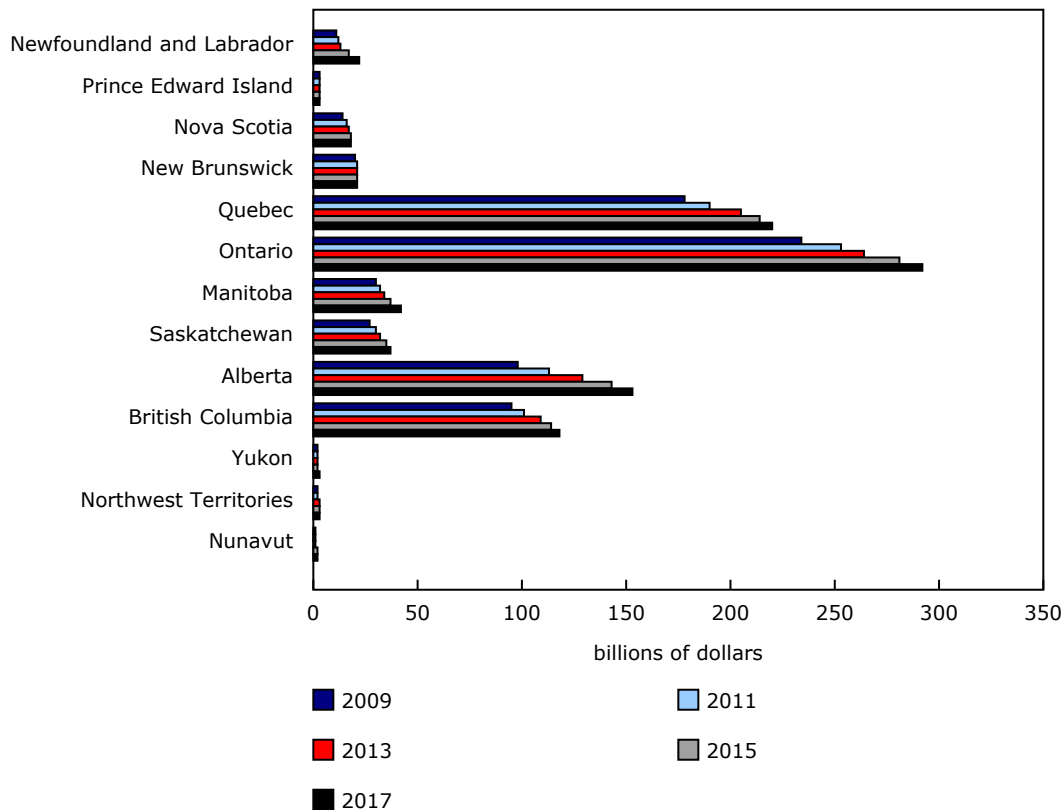
The value of Canada's stock of infrastructure was \$933 billion in 2017, or 8.7% of total national wealth. In real terms, the stock of infrastructure increased 1.1% over 2016 and was 11.6% higher than in 2009.

In 2017, investment in infrastructure totalled \$78.5 billion, representing 24.1% of all non-residential investment in Canada. Over 547,000 jobs were generated from the production of infrastructure assets in 2017, up slightly from around 545,000 jobs in 2016.

Infrastructure contributes 8.7% to Canada's national wealth

The value of Canada's stock of infrastructure was \$933 billion in 2017, or 8.7% of total national wealth. In real terms, the stock of infrastructure increased 1.1% over 2016 and was 11.6% higher than in 2009, the first year of available data.

Chart 1
Infrastructure capital stock by province and territory

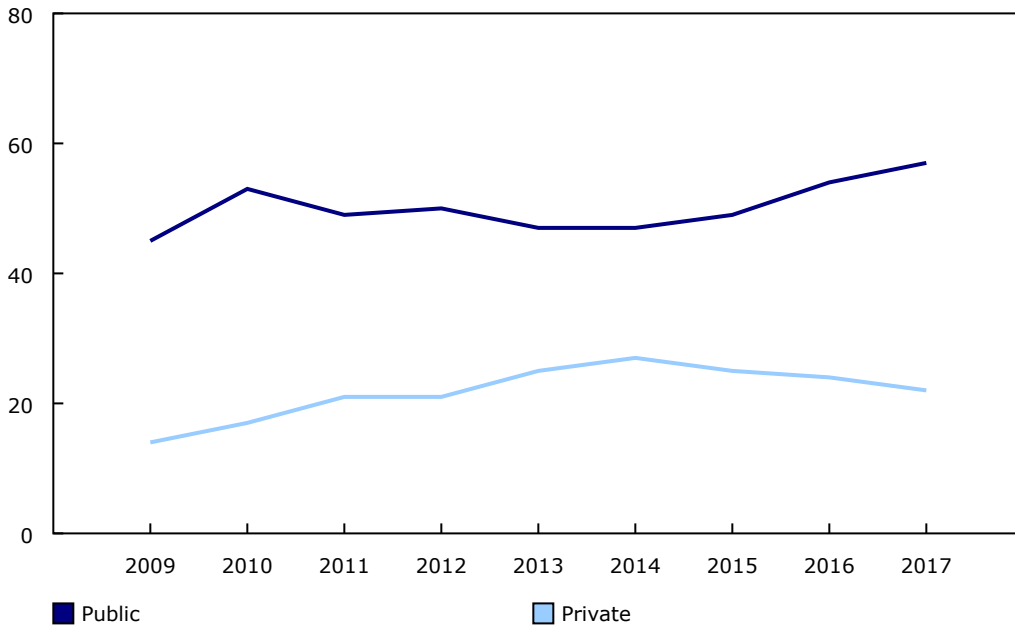


Source(s): Infrastructure Economic Account.

Overall, in real terms, investment in infrastructure declined 1.8% in 2017, following an increase of 6.0% in 2016. Although more than half of the provinces and territories had increased investment in 2017, notable slowdowns occurred in Alberta (-10.8%) and the Northwest Territories (-14.0%). In real terms, private investment in infrastructure declined in 10 provinces and territories in 2017 and fell 11.0% nationally. Public investment in infrastructure increased 2.1% in 2017, following a 10.2% gain in 2016.

Chart 2
Infrastructure investment spending, public and private

billions of dollars



Source(s): Infrastructure Economic Account.

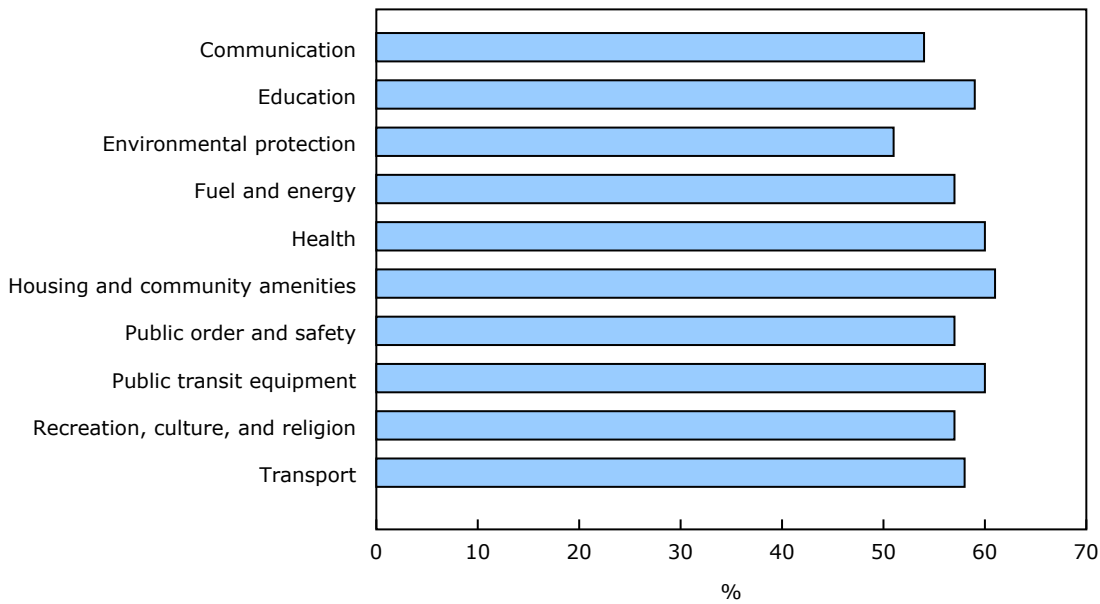
From 2009 to 2017, highways and road structures and networks received the largest share of investment. In 2017, investment in highways and road structures and networks accounted for 21.8% of total infrastructure investment in Canada. However, this was not the case for all provinces and territories. Newfoundland and Labrador had larger investment in power transmission networks; Manitoba, in hydraulic production plants; the Northwest Territories, in hospitals; and Nunavut, in schools, colleges, universities and other educational buildings.

The highest proportion of infrastructure investment in 2017 was undertaken by the utilities industries, while the transportation services industry was significant in Alberta and Ontario. The Northwest Territories recorded large investments in the information, finance and professional industries, while mining industries were important in Nunavut.

Remaining useful service life increases in most provinces

The share of remaining useful service life of infrastructure is the estimate of the percentage of time that an asset (or group of assets) will continue to function and provide economic benefits to Canada. The closer the estimate is to 100%, the better the state of infrastructure assets. After seven years of deceleration, the share of remaining useful service life of infrastructure assets was 57.7% in 2017, essentially unchanged from 2016. The majority of the provinces and territories showed increases in 2017, however there were decreases in Alberta, British Columbia, Saskatchewan, Prince Edward Island and Nunavut.

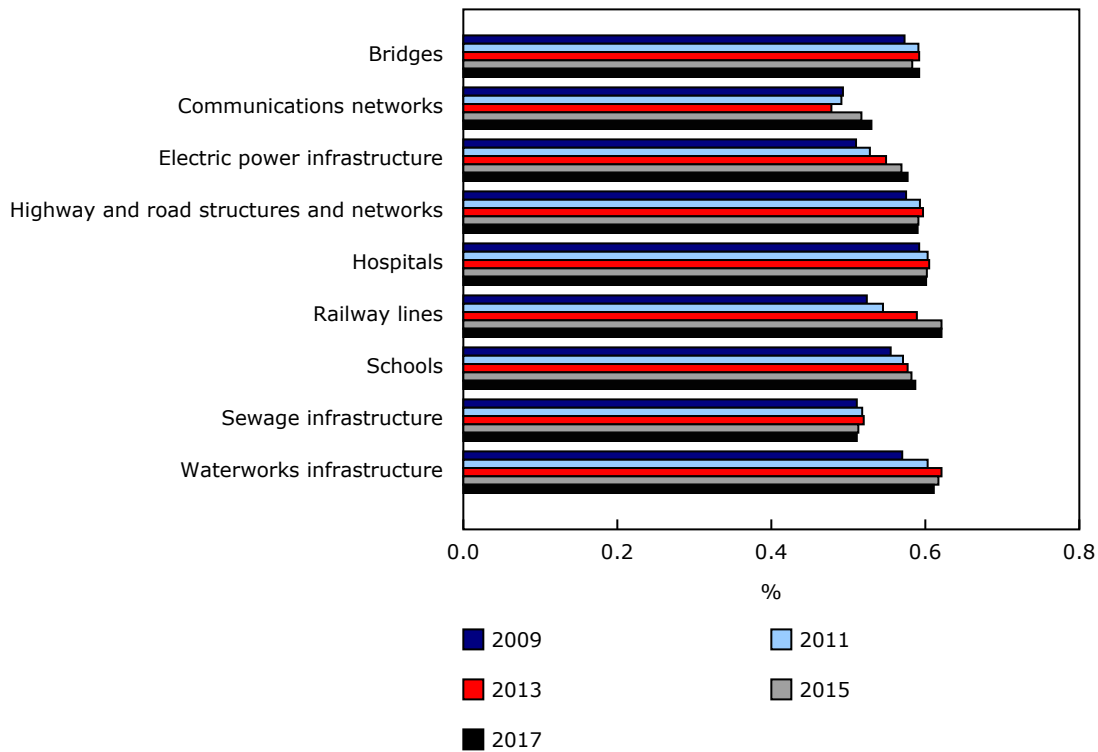
Chart 3
Capital stock of infrastructure's remaining useful service life ratios by asset group, Canada, 2017



Source(s): Infrastructure Economic Account.

The share of remaining useful service life for highway and road structures and networks in Canada increased from 57.5% in 2009 to 59.0% in 2017. The share increased in seven provinces and one territory from 2009 to 2017. As a result of a slowdown in investment, waterworks and sewage infrastructure assets experienced a slight decrease in their share of remaining useful service life for Canada in recent years. However, railway lines, communication networks, and electric power infrastructure showed increases from 2009 to 2017.

Chart 4
Remaining useful life ratios, selected assets, Canada

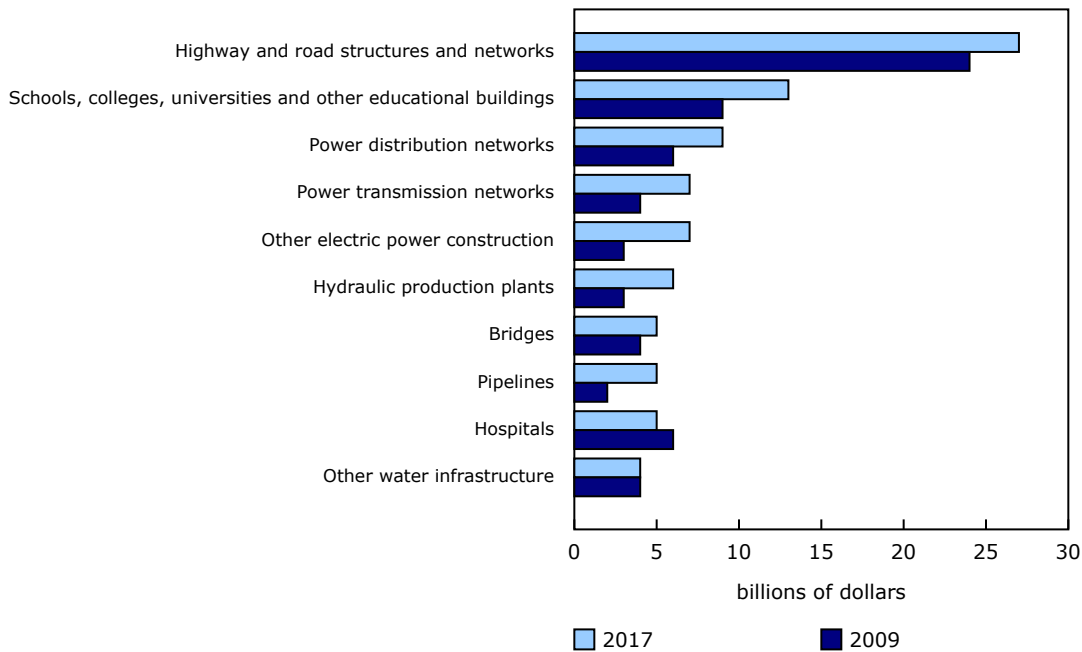


Source(s): Infrastructure Economic Account.

Infrastructure investment contribution to gross domestic product decreases slightly

The investment in infrastructure assets can make a significant contribution to Canada's economy as the impact of these often large projects has a ripple effect throughout many industries. Investment in a bridge not only contributes to the output of the construction industry, but also to output in the cement industry, the sand and gravel industry, and a host of service industries. In 2017, total investment in infrastructure assets was \$78.5 billion. The direct and indirect economic contribution from this investment was \$59.6 billion, a slight decrease from \$60.0 billion in 2016.

Chart 5
Value added from the production of infrastructure assets, top 10 assets in 2017, Canada



Source(s): Infrastructure Economic Account.

In terms of jobs, this investment generated approximately 547,000 jobs in 2017 and around 545,000 jobs in 2016. Six provinces and Yukon had more jobs generated from infrastructure investment in 2017 than in 2016. For Canada, 54% of the total jobs were the result of direct investment effects, whereas 46% were indirectly generated from spin-offs in other industries.

Note to readers

The Infrastructure Economic Account isolates the role and estimates the impact of infrastructure on Canada, the provinces and territories. Infrastructure assets are the physical structures and systems that support the production of goods and services, and their delivery to and consumption by governments, businesses and citizens. Data from the Infrastructure Economic Account are available for 2009 to 2017.

Unless otherwise noted, estimates of stock are presented on a net basis (net of depreciation).

**Table 1
Investment by asset, Canada**

	2009	2010	2011	2012	2013	2014	2015	2016	2017
	thousands of dollars								
Turbines, turbine generators, and turbine generator sets	171,390	321,410	566,034	553,151	636,782	555,949	389,552	388,466	409,524
Nuclear reactor steam supply systems	339,697	318,129	361,371	376,732	353,866	289,893	143,093	310,504	325,312
Water treatment equipment	99,189	119,614	124,579	126,530	185,014	110,933	128,234	115,754	155,982
Power and distribution transformers	964,533	785,202	701,494	760,152	909,135	1,213,592	1,347,532	748,975	787,063
Buses	958,259	1,041,794	701,542	613,336	475,512	759,385	983,264	863,134	909,333
Locomotives, railway rolling stock, and rapid transit equipment	790,094	883,690	1,043,152	1,284,232	1,141,992	1,267,202	1,505,628	1,418,584	1,495,360
Sports facilities with spectator capacity	480,695	659,237	916,673	608,005	734,915	609,749	457,960	372,987	614,001
Indoor recreational facilities	1,652,580	1,678,302	2,214,132	1,812,545	2,082,120	1,599,687	2,063,731	1,713,458	1,635,535
Student residences	95,350	21,892	66,728	139,760	122,353	27,008	183,055	92,980	112,229
Airports and other passenger terminals	409,748	413,626	524,996	471,171	458,198	662,005	758,819	584,647	534,131
Communications buildings	117,806	74,689	322,671	123,298	114,756	142,115	575,232	363,243	354,392
Schools, colleges, universities and other educational buildings	5,750,299	7,684,255	7,060,348	6,543,869	6,004,014	6,433,267	7,401,621	8,280,224	8,528,481
Hospitals	3,891,366	4,498,012	4,288,385	4,078,434	3,919,206	3,458,908	2,689,306	2,340,956	3,041,194
Nursing homes, homes for the aged	332,551	382,006	344,962	310,373	295,647	235,063	434,714	215,902	451,027
Religious centres and memorial sites	33,489	26,449	8,262	35,561	4,346	18,511	7,765	13,338	13,830
Museums	92,990	113,424	143,628	170,041	174,477	201,861	268,757	266,552	217,710
Historical sites	16,108	10,929	27,086	19,742	66,586	25,355	51,255	51,856	33,676
Libraries	133,133	158,847	199,094	233,185	282,866	318,379	230,746	536,616	554,996
Public security facilities	381,014	497,149	557,073	660,792	799,423	698,873	963,706	975,465	793,063
Highway and road structures and networks	14,928,378	16,047,282	14,744,485	15,825,684	14,126,286	13,332,386	14,289,937	16,983,106	17,149,060
Bridges	2,679,360	3,020,080	3,092,740	2,904,969	2,360,813	2,760,856	1,991,909	1,928,985	3,105,329
Tunnels	140,413	217,981	216,415	228,445	192,051	67,067	131,763	73,527	103,112
Railway lines	695,305	910,755	1,168,382	1,662,601	2,020,038	1,928,053	1,707,296	2,302,004	1,314,117
Seaports	98,650	178,839	71,272	105,868	187,652	189,014	155,479	76,997	83,529
Marinas and harbours	26,220	12,672	61,579	20,160	26,183	96,714	69,644	139,667	81,683
Canals and waterways	43,384	41,378	23,861	29,753	110,084	41,873	96,168	163,955	57,804
Other marine infrastructure	347,365	203,080	309,591	164,171	280,542	127,050	237,131	242,812	418,119
Runways	252,114	249,743	354,938	496,992	566,582	265,409	407,851	637,623	863,940
Pipelines	1,381,032	972,156	1,465,191	2,095,433	2,978,596	2,865,464	4,427,338	5,687,773	3,031,953
Wind and solar power plants	1,449,454	1,770,926	1,783,041	1,840,140	2,583,416	2,814,363	1,949,034	1,323,750	825,387
Steam production plants	466,991	603,092	550,552	537,229	775,572	1,505,400	969,613	845,752	743,799
Nuclear production plants	355,317	358,639	409,649	369,129	469,408	520,243	600,722	407,256	272,879
Hydraulic production plants	1,805,090	2,066,029	2,109,534	2,296,050	2,694,555	3,436,978	3,091,002	4,064,333	3,683,923
Other electric power construction	1,931,493	2,262,775	2,365,613	2,534,497	2,869,030	1,382,091	1,903,899	2,186,215	3,995,753
Power transmission networks	2,545,451	2,799,988	2,909,733	3,256,314	3,863,998	3,729,963	5,408,602	5,783,734	4,514,708
Power distribution networks	3,526,400	4,357,738	4,278,696	4,452,485	5,509,362	6,633,354	4,191,705	4,367,928	5,230,567
Cables and lines - coaxial, copper, aluminum, etc.	470,746	1,068,648	867,245	761,893	749,882	1,022,918	1,239,224	454,898	1,251,168
Optical fibre	157,572	338,001	274,567	254,607	221,676	766,395	982,085	552,420	371,786

Table 1 - continued
Investment by asset, Canada

	2009	2010	2011	2012	2013	2014	2015	2016	2017
Transmission support structures - towers, poles, conduit	440,396	839,093	684,995	618,163	580,814	1,783,474	1,979,785	2,129,825	1,564,364
Other communication construction	373,770	831,117	689,293	580,924	590,359	1,332,602	751,313	1,376,012	1,395,536
Water filtration plants	1,115,428	1,649,316	2,572,626	2,751,029	2,511,435	1,739,404	227,175	607,746	359,281
Other water infrastructure	2,590,850	4,481,305	3,652,935	3,551,062	3,481,124	3,695,601	2,131,786	2,039,266	2,479,137
Sewage treatment plants	909,781	1,114,975	1,342,467	1,368,035	1,130,099	559,843	1,056,082	1,515,769	451,034
Other sewage infrastructure	2,207,518	2,378,991	2,661,742	2,622,523	1,816,186	2,297,321	1,446,540	1,084,589	2,336,248
Waste disposal facilities	178,251	219,006	163,866	187,908	190,905	344,310	394,387	263,263	159,526
Outdoor recreational facilities	789,495	937,298	464,259	558,264	704,796	594,823	699,554	1,315,961	1,464,445
Pollution abatement and control	20,437	50,965	44,003	47,224	74,166	134,204	555,296	542,794	247,092

Source(s): Infrastructure Economic Account.

Definitions, data sources and methods: survey numbers 2803 and 2820.

The *Latest Developments in the Canadian Economic Accounts (13-605-X)* is available.

The *User Guide: Canadian System of Macroeconomic Accounts (13-606-G)* is available.

The *Methodological Guide: Canadian System of Macroeconomic Accounts (13-607-X)* is available.

The product *Infrastructure Economic Account – Data tables (36260002)* is available. This product provides the data tables on infrastructure.

For more information, or to enquire about the concepts, methods or data quality of this release, contact us (toll-free 1-800-263-1136; 514-283-8300; STATCAN.infostats-infostats.STATCAN@canada.ca) or Media Relations (613-951-4636; STATCAN.mediahotline-ligneinfomedias.STATCAN@canada.ca).