

# Top 100

## Canada's Biggest Infrastructure Projects

ReNew  
CANADA  
The Infrastructure Magazine

# 2018

top100projects.ca



No. 12, New Champlain Bridge Corridor Project, Page 28

Credit: SSLC, (Signature on St. Lawrence Construction)



## Top100 Project Index

By Rank, Project Title, and Page Reference

### Buildings

rank    project title    page #

#### Education

96 Université de Montréal  
Science Complex    **66**

#### Government

45 Energy Services Acquisition  
Program's Energy Service  
Modernization    **49**

18 Rehabilitation of the  
Parliament Buildings    **38**

#### Health Care

70 CAMH Phase 1C  
Redevelopment    **59**

14 Centre hospitalier de l'Université  
de Montréal (CHUM) and  
Research Centre    **32**

79 Corner Brook Acute  
Care Hospital    **61**

100 Etobicoke  
General Hospital    **66**

74 Grande Prairie  
Regional Hospital    **60**

23 Quebec City University Hospital  
center – Laval University    **40**

94 Joseph Brant Hospital  
Redevelopment and  
Expansion Project    **65**

42 Mackenzie  
Vaughan Hospital    **48**

37 New Cancer Centre  
in Calgary    **46**

56 Sainte-Justine University  
Hospital Centre    **54**

92 Saskatchewan Hospital  
North Battleford    **65**

64 Stanton Territorial  
Hospital Renewal Project    **57**

#### Military

91 Canadian Forces Base  
Esquimalt A and B Jetty  
Recapitalization Project    **64**

59 Canadian Forces Base  
Trenton Expansion    **55**

#### Public Spaces

24 81-141 Bay Street    **42**

61 Union Station  
Revitalization Project    **56**

#### Social Infrastructure

95 Vancouver Art Gallery    **65**

### Energy

rank    project title    page #

#### Hydroelectric

76 Gordon M. Shrum Generating  
Station Refurbishment    **60**

51 John Hart Generating Station  
Replacement Project    **52**

6 Keeyask  
Hydroelectric Project    **20**

69 Marmora Pumped  
Storage Project    **58**

3 Muskrat Falls Project    **14**

66 Rehabilitation of  
Robert-Bourassa  
Generating Units    **57**

29 Renovations to  
Beauharnois  
Generating Station    **43**

7 Romaine Complex    **22**

65 Ruskin Dam and  
Powerhouse Upgrade    **57**

4 Site C Clean  
Energy Project    **16**

86 Tazi Twé  
Hydroelectric Project    **63**

#### Natural Gas

72 Chinook Power Station    **59**

39 Genesee 4 & 5  
Generation Stations    **47**

33 Great Spirit Power Project    **45**

54 The Milner Energy Centre    **53**

### Nuclear

1 Bruce Power Nuclear  
Refurbishment    **10**

2 Darlington Nuclear  
Refurbishment    **12**

#### Transmission

9 Bipole III  
Transmission Line    **25**

38 Chamouchouane–Bout-de-l'Île  
Transmission Line    **46**

77 East–West Tie  
Transmission Project    **61**

35 Fort McMurray West  
Transmission Project    **45**

73 Juan de Fuca  
Power Cable    **59**

30 Maritime Link Project    **44**

41 Romaine Complex  
Transmission Line    **47**

40 Wataynikaneyap  
Transmission Project    **47**

#### Wind

52 Henvey Inlet  
Wind Project    **52**

### Other

rank    project title    page #

#### Carbon Capture

46 Alberta Carbon  
Trunk Line    **49**

#### Remediation

57 Giant Mine  
Remediation Project    **54**

43 Port Hope  
Area Initiative    **48**

#### Waste Management

53 Deep Geologic  
Repository    **53**

## Top100 Project Index (continued)

By Rank, Project Title, and Page Reference

### Water-Wastewater

83	Annacis Island Wastewater Treatment Plant Expansion	62
78	Bonnybrook Wastewater Treatment Plant D Expansion	61
63	Capital Region District Wastewater Treatment Plant	56
89	Hanlan Watermain Project	64
62	North End Sewage Treatment Plant Biological Nutrient Removal Upgrade	56
68	North Shore Wastewater Treatment Plant	58
44	Port Lands Flood Protection and Enabling Infrastructure	49
99	South End Water Pollution Control Centre	66
98	Woodward Wastewater Treatment Plant	66

### Transit

rank	project title	page #
------	---------------	--------

#### BRT

80	Southwest Rapid Transitway (Stage 2) and Pembina Highway Underpass Project	62
34	York VIVA Bus Rapid Transit (vivaNext)	45

#### LRT

22	Confederation Line	40
27	Edmonton Valley Line – Stage 1	43
5	Eglinton Crosstown LRT	18
47	Finch West LRT	50
11	Green Line LRT	28
55	Hamilton LRT	53
36	Hurontario LRT	46
84	Metrolinx Light Rail Vehicles	63
48	New TTC Light Rail Vehicles	50
17	Ottawa LRT – Stage 2	36
60	Region of Waterloo ION LRT – Stage 1	55

81	Reno-Systèmes Program – Phase IV	62
----	----------------------------------	----

8	Réseau électrique métropolitain	24
---	---------------------------------	----

### Rail

32	Barrie Corridor GO RER	44
82	Bowmanville Extension Project	62
31	Kitchener Corridor GO RER	44
67	Union Station Infrastructure Renewal Program	58

### Subway

90	Cote-Vertu Station Underground Garage	64
20	Montreal Metro Car Replacement	39
16	Scarborough Subway Extension	36
85	Wilson Facility Enhancement and Yard Expansion	63

### Transportation

rank	project title	page #
------	---------------	--------

#### Airport

28	Vancouver International Airport Upgrades	43
----	--	----

#### Bridge

15	George Massey Tunnel Replacement Project	36
21	Gordie Howe International Bridge	39
12	New Champlain Bridge Corridor Project	28

#### Highway

93	100-Series Highway Improvements	65
97	Dorval Interchange Road Construction	66
50	East Side Transportation Initiative	51
19	F.G. Gardiner Expressway Strategic Rehabilitation Plan	38
58	Highway 1 Upgrades – Kamloops to Alberta	54

49	Highway 407 East Extension – Phase 2	50
----	--------------------------------------	----

75	Highway 427 Expansion Project	60
----	-------------------------------	----

26	Regina Bypass Project	42
----	-----------------------	----

88	Route 389 Improvement Project	64
----	-------------------------------	----

10	Southwest Calgary Ring Road	26
----	-----------------------------	----

71	Trans Labrador Highway Widening and Hard Surfacing	59
----	--	----

13	Turcot Interchange	30
----	--------------------	----

### Port

25	Roberts Bank Terminal 2 Project	42
----	---------------------------------	----

### Rail

87	Regina Railyard Renewal Project	63
----	---------------------------------	----

### Figures

page #

Projects & Sectors by Province	8
Energy Development in Canada	10
Funding Source Breakdown	12
Project Delivery	22
Transit Expansion	24
Expanded Transportation Network	26
Total Investment	34
Projects by Year of Completion	34
A Decade of Top100	51
Building Energy Capacity	52

### Acronym Legend

<b>AFP:</b> Alternative financing and procurement
<b>DBF:</b> Design-build-finance
<b>DBFM:</b> Design-build-finance-maintain
<b>DBFOM:</b> Design-build-finance-operate-maintain
<b>EPC:</b> Engineering, procurement, and construction
<b>EA:</b> Environmental assessment
<b>JV:</b> Joint venture
<b>LRT:</b> Light-rail transit
<b>P3:</b> Public-private partnership
<b>RFP:</b> Request for proposals
<b>RFQ:</b> Request for qualifications
<b>SUB:</b> Subcontractor
<b>TEUs:</b> Twenty-foot equivalent unit containers