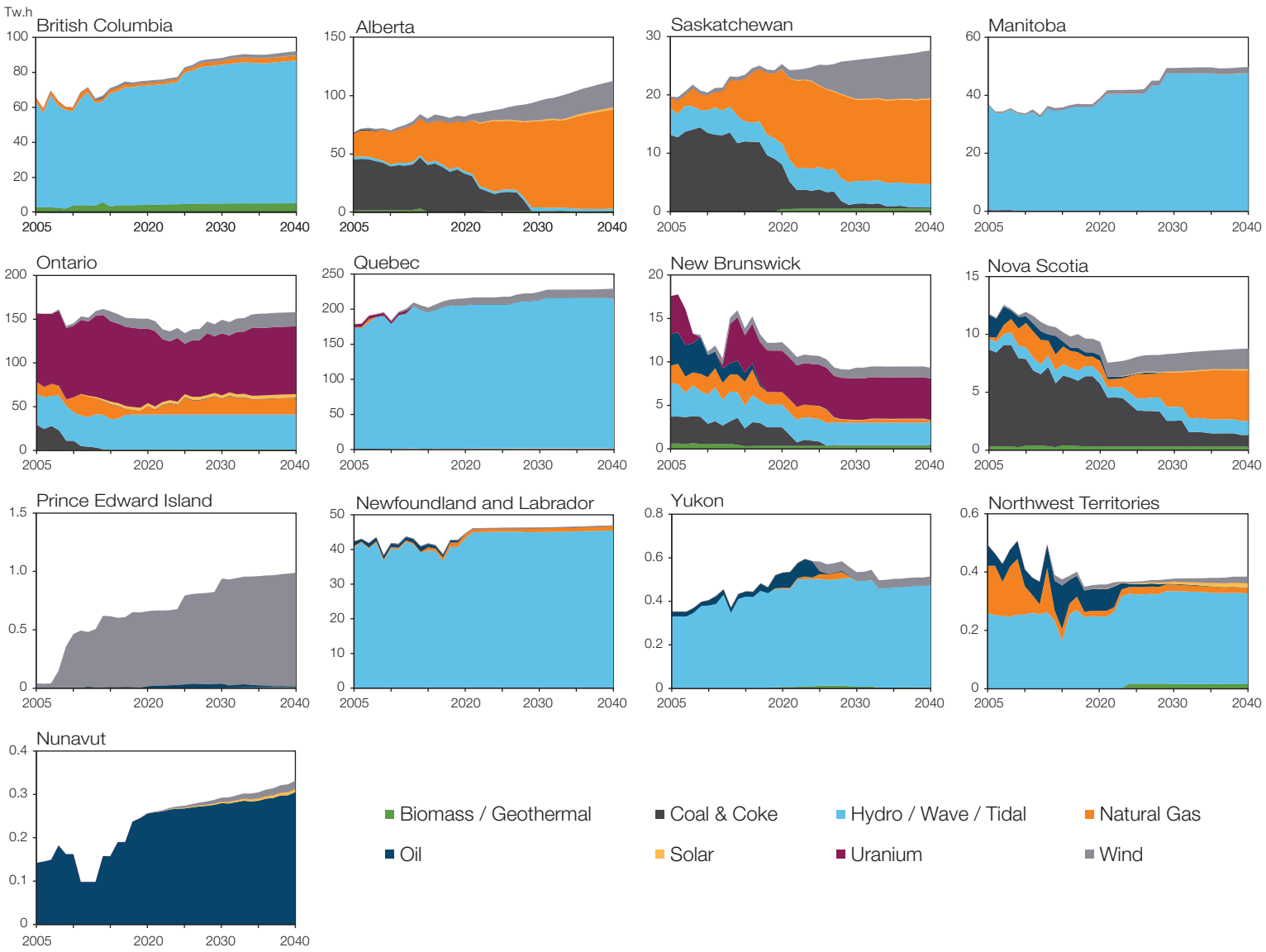
Electricty

Canada's Energy Future 2019

Electricity Generation by Fuel Type and Region



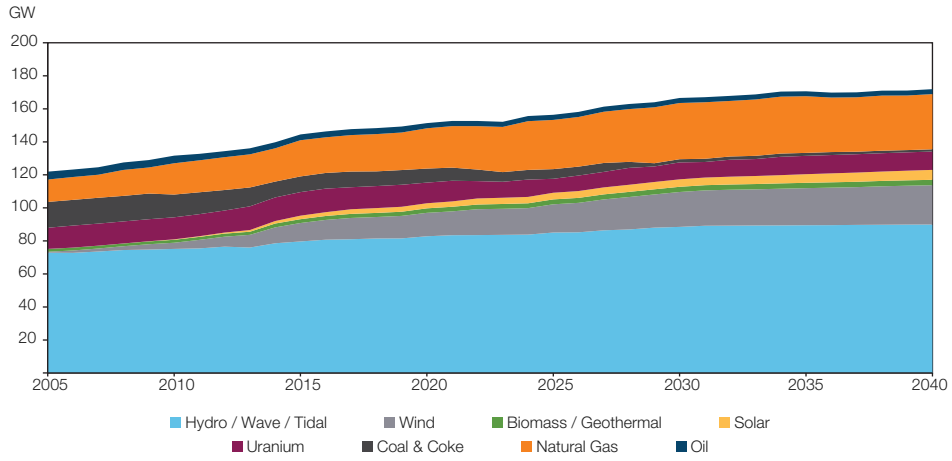
The type of energy used to generate electricity varies substantially between regions because of resource accessibility and historical infrastructure development.

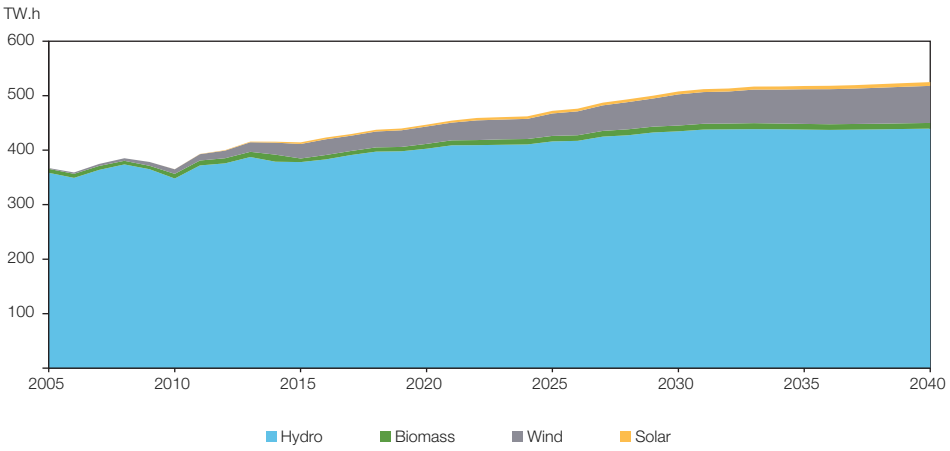
Capacity and Generation, 2017 and 2040

	Year	Hydro	Wind	Biomass	Solar	Nuclear	Coal	Natural Gas	Oil
Capacity in GW and %	2017	81 (54.9%)	12.9 (8.7%)	2.5 (1.7%)	2.8 (1.9%)	13.3 (9%)	9.5 (6.4%)	22.1 (15%)	3.6 (2.4%)
	2040	89.9 (52.3%)	23.8 (13.9%)	3.3 (1.9%)	6 (3.5%)	11.1 (6.5%)	1.4 (0.8%)	33.4 (19.4%)	3 (1.7%)
Generation in TW.h and %	2017	391.0 (60.5%)	28.0 (4.3%)	7.1 (1.1%)	3.0 (0.5%)	95.4 (14.8%)	58.9 (9.1%)	59.4 (9.2%)	3.2 (0.5%)
	2040	439.4 (59.6%)	68 (9.2%)	10.3 (1.4%)	6.9 (0.9%)	82.2 (11.2%)	1.4 (0.2%)	126.9 (17.2%)	1.7 (0.2%)

Electricity Capacity by Fuel Type

Since 2005, cumulative installed non-hydro renewable electricity capacity has grown almost 700%, from 2 GW to more than 18 GW in 2017.



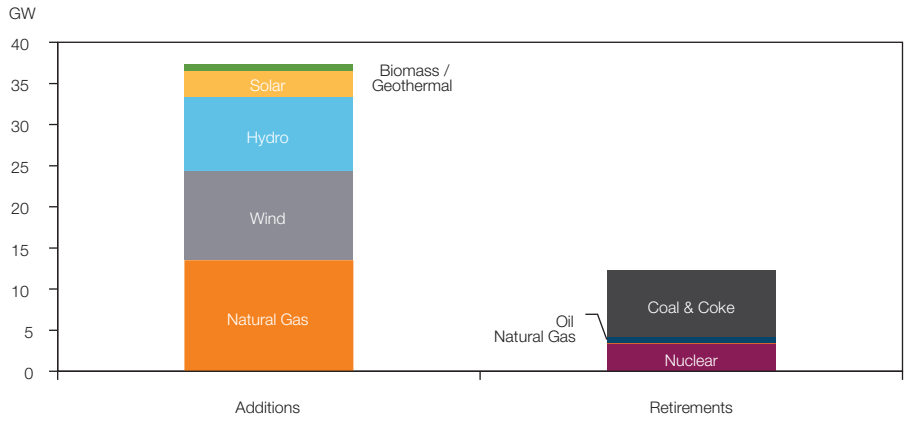


Renewable Electricity Generation by Fuel Type

By 2040 hydro contributes 84% of Canada's renewable generation

Capacity Additions and Retirements by 2040

By 2040 renewables account for 63% of additions to capacity.



Find these figures, and additional data and figures, in the downloadable Excel file at:
www.cer-rec.gc.ca/energyfutures