

BC Hydro Potential Generation Resource Options

Transmission Region Summary - Before Exclusions

Resource Type		Transmission Region									Totals
		Central Interior	East Kootenay	Kelly	Lower Mainland	Nicola	North Coast	Peace River	South Interior	Vancouver Island	
Geothermal	Capacity (MW)		40		390	40	370	48	40		928
	Annual Energy (GWh/a)		252		2,917	252	2,791	315	252		6,779
Small Hydro	Capacity (MW)	659	1,029	300	3,189	820	4,292	929	533	783	12,534
	Annual Energy (GWh/a)	2,603	3,628	1,081	13,858	2,864	17,483	4,130	1,730	2,258	49,635
Wind	Capacity (MW)	1,819	138	724	283	2,137	4,012	5,014	871	1,417	16,415
	Annual Energy (GWh/a)	5,002	252	1,511	729	4,305	10,771	13,680	1,799	3,465	41,514
Large Hydro & Pumped Storage	Capacity (MW)	360	985		2,095			5,893		400	9,733
	Annual Energy (GWh/a)	1,673	6,642		5,503			32,635		-	46,453
Ocean (Wave & Tidal)	Capacity (MW)				355		225			1,709	2,290
	Annual Energy (GWh/a)				1,244		764			5,874	7,882
Biomass	Capacity (MW)	372		73	1	39		60	3	46	594
	Annual Energy (GWh/a)	2,973		587	10	314		429	22	368	4,704
Natural Gas	Capacity (MW)			603	403					500	1,506
	Annual Energy (GWh/a)			3,876	2,443					3,831	10,150
Resource Smart	Capacity (MW)		30	30		1,000			500	49	1,609
	Annual Energy (GWh/a)		131	80		180			26	48	465
Total Capacity (MW)		3,209	2,222	1,731	6,716	4,037	8,900	11,943	1,946	4,904	45,609
Total Annual Energy (GWh/a)		12,251	10,905	7,135	26,704	7,915	31,809	51,189	3,829	15,843	167,582

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Transmission Region Summary - After Exclusions

Resource Type		Transmission Region									Totals
		Central Interior	East Kootenay	Kelly	Lower Mainland	Nicola	North Coast	Peace River	South Interior	Vancouver Island	
Geothermal	Capacity (MW)		40		340	20	270	28	40		738
	Annual Energy (GWh/a)		252		2,562	126	2,081	189	252		5,462
Small Hydro	Capacity (MW)	659	995	298	2,971	814	4,143	929	524	776	12,109
	Annual Energy (GWh/a)	2,603	3,504	1,074	12,919	2,842	16,878	4,126	1,701	2,233	47,880
Wind	Capacity (MW)	1,819	138	724	283	2,137	4,012	5,014	871	1,417	16,415
	Annual Energy (GWh/a)	5,002	252	1,511	729	4,305	10,771	13,680	1,799	3,465	41,514
Large Hydro & Pumped Storage	Capacity (MW)	360	985		1,490			1,575		400	4,810
	Annual Energy (GWh/a)	1,673	6,642		2,422			7,810		-	18,547
Ocean (Wave & Tidal)	Capacity (MW)				323		224			1,395	1,942
	Annual Energy (GWh/a)				1,133		758			4,773	6,663
Biomass	Capacity (MW)	372		73	1	39		60	3	46	594
	Annual Energy (GWh/a)	2,973		587	10	314		429	22	368	4,704
Natural Gas	Capacity (MW)			603	403					500	1,506
	Annual Energy (GWh/a)			3,876	2,443					3,831	10,150
Resource Smart	Capacity (MW)		30	30		1,000			500	49	1,609
	Annual Energy (GWh/a)		131	80		180			26	48	465
Total Capacity (MW)		3,209	2,188	1,728	5,812	4,010	8,649	7,605	1,938	4,583	39,723
Total Annual Energy (GWh/a)		12,251	10,781	7,129	22,217	7,767	30,487	26,234	3,800	14,717	135,384

BC Hydro Potential Generation Resource Options RO Cluster Summary - After Exclusions

Cluster Number	Biomass		Geothermal		Natural Gas		Small Hydro		Wind		Large Hydro & Pumped Storage		Ocean (Wave & Tidal)		Resource Smart		Total Capacity (MW)	Total Annual Energy (GWh/a)
	Capacity (MW)	Annual Energy (GWh/a)	Capacity (MW)	Annual Energy (GWh/a)	Capacity (MW)	Annual Energy (GWh/a)	Capacity (MW)	Annual Energy (GWh/a)	Capacity (MW)	Annual Energy (GWh/a)	Capacity (MW)	Annual Energy (GWh/a)	Capacity (MW)	Annual Energy (GWh/a)	Capacity (MW)	Annual Energy (GWh/a)		
1	60 9.7%	429 20%	8 1.2%	63 3.0%	-	-	-	-	548 89%	1,606 77%	-	-	-	-	-	-	615	2,098
2	-	-	-	-	-	-	52 4.0%	231 5.9%	1,240 96%	3,697 94%	-	-	-	-	-	-	1,292	3,928
3	-	-	20 0.3%	126 0.6%	-	-	158 2.7%	508 2.6%	3,996 70%	11,146 57%	1,575 27%	7,810 40%	-	-	-	-	5,749	19,590
4	-	-	-	-	-	-	248 20%	886 83%	-	-	-	-	-	-	1,000 80%	180 17%	1,248	1,066
5	-	-	-	-	-	-	47 8.5%	163 86%	-	-	-	-	-	-	500 91%	26 14%	547	189
6	-	-	-	-	-	-	40 3.9%	120 1.8%	-	-	985 96%	6,642 98%	-	-	-	28 0.4%	1,025	6,790
7	114 3.1%	912 8.2%	20 0.5%	126 1.1%	603 16%	3,876 35%	102 2.8%	341 3.1%	2,855 77%	5,842 53%	-	-	-	-	-	-	3,694	11,096
8	0 0.02%	3 0.08%	20 1.2%	126 3.3%	403 24%	2,443 63%	287 17%	1,301 34%	-	-	1,000 58%	-	-	-	-	-	1,710	3,873
9	-	-	50 9.2%	355 13%	-	-	294 54%	1,354 51%	-	-	200 37%	945 36%	-	-	-	-	544	2,654
10	-	-	50 7.7%	355 11%	-	-	307 47%	1,381 43%	-	-	290 45%	1,477 46%	-	-	-	-	647	3,213
11	1 0.04%	5 0.1%	-	-	500 30%	3,831 57%	166 10%	222 3.3%	-	-	200 12%	-	750 45%	2,629 39%	40 2.4%	18 0.3%	1,657	6,705
12	-	-	-	-	-	-	112 6.1%	370 7.5%	1,417 77%	3,465 70%	-	-	316 17%	1,088 22%	-	-	1,845	4,922
13	-	-	-	-	-	-	8 1.0%	33 1.6%	796 99%	2,061 98%	-	-	-	-	-	-	804	2,094
14	-	-	-	-	-	-	0 0.02%	2 0.03%	2,031 99%	6,103 99%	-	-	14 0.7%	49 0.8%	-	-	2,045	6,153
15	-	-	250 29%	1,955 42%	-	-	621 71%	2,688 58%	-	-	-	-	-	-	-	-	871	4,643
Total	175	1,349	418	3,106	1,506	10,150	2,441	9,598	12,883	33,919	4,250	16,874	1,080	3,766	1,540	252	24,293	79,013

Note: resource option percent composition of total cluster capacity or annual energy shown below in shaded portion of cell