

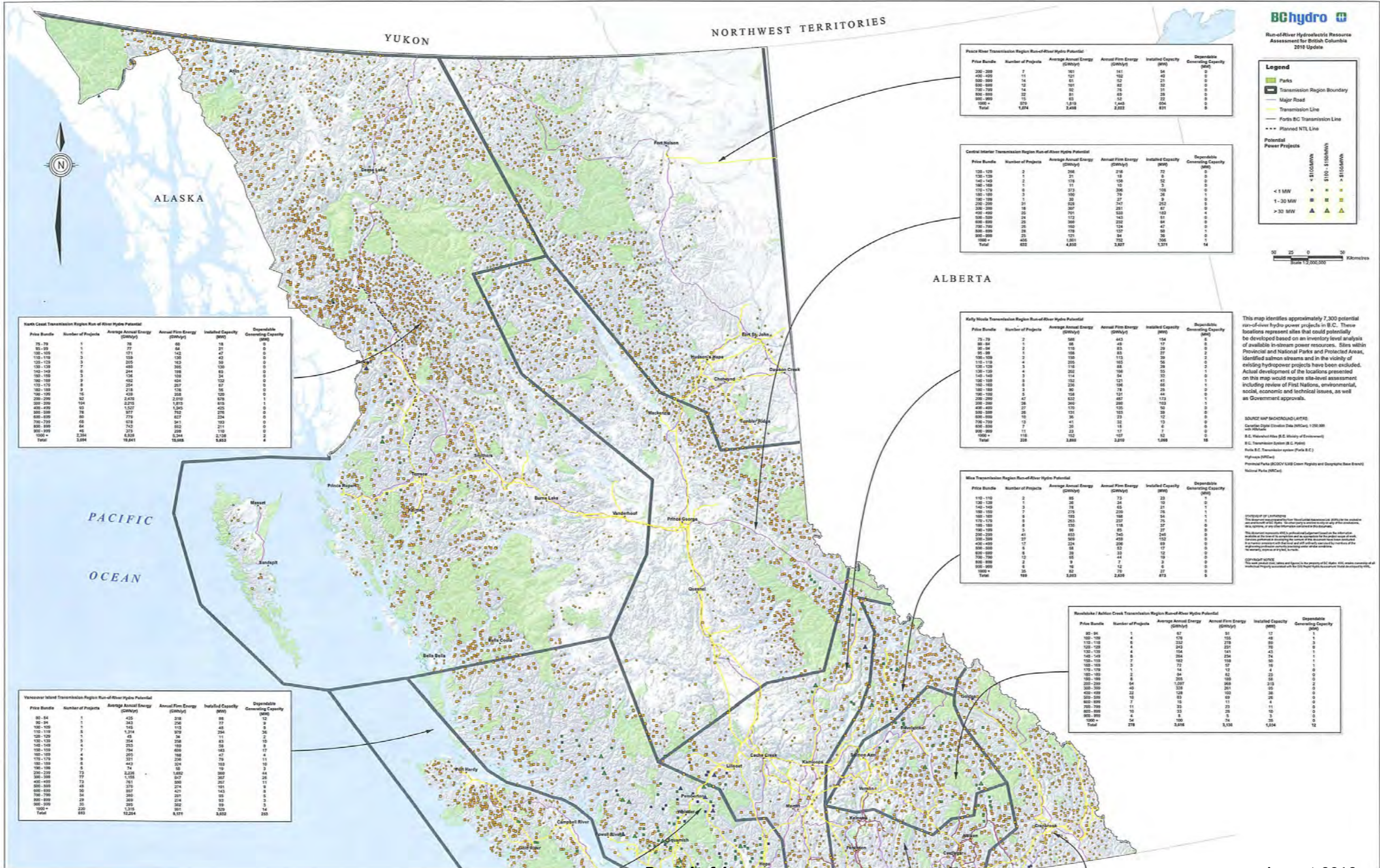
Integrated Resource Plan

Appendix 3A-28

2013 Resource Options Report Update

Run-of-River Report

Report Attachment: Map E-1



Peace River Transmission Region Run-of-River Hydro Potential

Price Bundle	Number of Projects	Average Annual Energy (GWh/yr)	Annual Firm Energy (MW)	Installed Capacity (MW)	Dependable Generating Capacity (MW)
200-299	7	361	141	54	0
300-399	16	491	192	42	0
400-499	14	61	52	21	0
500-599	12	701	82	32	0
600-699	14	82	19	31	0
700-799	22	81	49	29	0
800-899	13	63	52	22	0
900-999	5	100	13	8	0
1000+	879	1,819	1,448	604	0
Total	1,014	2,818	2,022	821	0

Central Interior Transmission Region Run-of-River Hydro Potential

Price Bundle	Number of Projects	Average Annual Energy (GWh/yr)	Annual Firm Energy (MW)	Installed Capacity (MW)	Dependable Generating Capacity (MW)
120-129	2	398	218	72	0
130-139	1	21	18	7	0
140-149	2	178	106	52	0
150-159	3	11	10	3	0
170-179	6	373	306	108	0
180-189	3	190	79	26	1
190-199	1	20	27	9	0
200-299	31	629	347	252	0
300-399	16	387	281	87	0
400-499	25	701	533	183	4
500-599	24	172	143	81	0
600-699	20	300	222	84	0
700-799	26	193	124	47	0
800-899	15	179	137	60	1
900-999	25	171	94	36	0
1000+	405	1,801	1,305	505	0
Total	621	4,812	3,827	1,371	14

North Coast Transmission Region Run-of-River Hydro Potential

Price Bundle	Number of Projects	Average Annual Energy (GWh/yr)	Annual Firm Energy (MW)	Installed Capacity (MW)	Dependable Generating Capacity (MW)
75-79	1	76	60	18	0
80-89	1	77	64	21	0
90-99	1	171	142	47	0
100-109	1	159	130	42	0
110-119	3	205	163	59	0
120-129	7	489	395	130	0
130-139	4	244	196	69	0
140-149	3	134	109	34	0
150-159	3	160	134	43	0
160-169	3	254	207	67	0
170-179	3	218	176	56	0
180-189	9	428	358	120	0
190-199	16	2,219	1,819	616	1
200-299	92	2,470	2,010	678	1
300-399	104	1,517	1,245	425	0
400-499	92	977	792	276	0
500-599	78	773	627	224	0
600-699	68	678	541	183	0
700-799	64	742	592	211	0
800-899	46	373	299	110	0
900-999	46	2,384	1,944	653	2
1000+	2,884	18,461	14,688	4,832	4

Kootenai Transmission Region Run-of-River Hydro Potential

Price Bundle	Number of Projects	Average Annual Energy (GWh/yr)	Annual Firm Energy (MW)	Installed Capacity (MW)	Dependable Generating Capacity (MW)
75-79	2	398	443	154	0
80-84	1	170	83	29	0
85-89	1	106	83	27	2
90-99	1	106	113	39	2
100-109	2	260	652	56	0
110-119	4	118	88	29	0
120-129	3	118	88	29	0
130-139	4	200	166	56	0
140-149	3	114	94	32	0
150-159	3	152	121	41	1
160-169	6	194	166	65	0
180-189	3	90	78	28	0
190-199	5	104	131	44	0
200-299	67	632	487	173	1
300-399	38	380	380	103	0
400-499	27	170	135	50	0
500-599	26	131	103	39	0
600-699	19	39	23	12	0
700-799	13	41	32	13	0
800-899	7	30	16	6	0
900-999	11	23	17	7	0
1000+	116	532	407	152	0
Total	228	2,893	2,419	1,089	18

Mesa Transmission Region Run-of-River Hydro Potential

Price Bundle	Number of Projects	Average Annual Energy (GWh/yr)	Annual Firm Energy (MW)	Installed Capacity (MW)	Dependable Generating Capacity (MW)
110-119	2	85	73	23	1
120-129	1	28	24	10	0
140-149	3	78	65	21	0
150-159	1	275	220	76	1
160-169	6	193	166	54	1
170-179	8	263	237	77	0
180-189	9	130	118	27	0
190-199	3	95	85	27	0
200-299	43	653	545	245	0
300-399	27	509	439	153	0
400-499	17	224	206	69	0
500-599	6	63	53	17	0
600-699	6	29	23	12	0
700-799	12	65	44	18	0
800-899	2	9	7	3	0
900-999	6	16	12	6	0
1000+	35	82	70	27	0
Total	189	3,093	2,479	873	5

Vancouver Island Transmission Region Run-of-River Hydro Potential

Price Bundle	Number of Projects	Average Annual Energy (GWh/yr)	Annual Firm Energy (MW)	Installed Capacity (MW)	Dependable Generating Capacity (MW)
80-84	1	425	318	88	12
85-89	1	343	256	77	11
90-99	1	145	113	48	5
100-109	5	1,374	970	294	36
110-119	1	43	34	11	2
120-129	4	254	199	58	9
130-139	5	252	189	56	8
140-149	7	754	600	183	17
150-159	4	392	296	87	4
160-169	8	251	204	74	11
170-179	8	443	324	103	10
180-189	6	74	56	19	3
190-199	7	1,156	847	267	34
200-299	73	2,228	1,692	560	44
300-399	77	1,056	817	267	20
400-499	72	761	590	207	11
500-599	48	376	274	101	9
600-699	26	367	274	143	9
700-799	24	280	214	92	5
800-899	28	353	274	92	5
900-999	10	395	302	99	3
1000+	228	1,319	991	329	14
Total	683	12,254	8,571	2,822	253

Reynolds / Ashcroft Transmission Region Run-of-River Hydro Potential

Price Bundle	Number of Projects	Average Annual Energy (GWh/yr)	Annual Firm Energy (MW)	Installed Capacity (MW)	Dependable Generating Capacity (MW)
80-84	1	87	51	17	1
90-99	4	176	155	48	1
100-109	6	232	219	69	3
120-129	4	243	221	70	0
130-139	4	154	141	45	1
140-149	8	254	254	74	1
150-159	8	169	169	50	0
160-169	3	72	72	16	1
170-179	4	54	44	14	0
180-189	2	84	62	25	0
190-199	6	205	189	58	0
200-299	24	1,057	848	273	0
300-399	40	328	281	92	0
400-499	22	129	102	38	0
500-599	19	83	69	26	0
600-699	7	15	11	4	0
700-799	11	25	20	11	0
800-899	10	33	25	10	0
900-999	4	8	5	3	0
1000+	4	100	74	25	0
Total	278	3,816	3,138	1,034	12



Run-of-River Hydroelectric Resource Assessment for British Columbia 2010 Update

Legend

- Parks
- Transmission Region Boundary
- Major Road
- Transmission Line
- Fortis BC Transmission Line
- Planned NTL Line

Potential Power Projects

- < 1 MW
- 1-30 MW
- > 30 MW

Scale 1:2,000,000

This map identifies approximately 7,300 potential run-of-river hydro power projects in B.C. These locations represent sites that could potentially be developed based on an inventory level analysis of available in-stream power resources. Sites within Provincial and National Parks and Protected Areas, identified salmon streams and in the vicinity of existing hydropower projects have been excluded. Actual development of the locations presented on this map would require site-level assessment including review of First Nations, environmental, social, economic and technical issues, as well as Government approvals.

SOURCE: B.C. TRANSMISSION SYSTEM (B.C. TRANS)
 B.C. TRANSMISSION SYSTEM (B.C. TRANS)
 Parks, B.C. TRANSMISSION SYSTEM (B.C. TRANS)
 Highway (B.C. TRANS)
 Provincial Parks (B.C. TRANS) and Designated Base Stream National Parks (B.C. TRANS)

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