

## Inventory of Demand-side Management Options

DSM Options	Description	Energy Potential Savings in F2030 (GWh)	Total Resource Cost (\$/MWh)	Electricity Savings Uncertainty	Cost Uncertainty
<b>Energy-Focused Options</b>	<b>Option 1:</b> A reduction from the current DSM plan (Option 2), delivering 66% of load growth.	9,589	37	Medium	Medium
	<b>Option 2:</b> An update of 2008 LTAP DSM plan with full offering of codes and standards, conservation rate structures, and programs.	12,508	37	Medium	Medium
	<b>Option 3:</b> Expands programs to the limit of cost-effectiveness. Keeps codes and standards and conservation rate structures the same as in Option 2.	14,502	39	Medium	Medium
	<b>Option 4:</b> Builds upon Option 3 and expands the codes and standards and conservation rate structure tools.	16,049	46	Medium/High	Medium/High
	<b>Option 5:</b> Reflects a comprehensive effort to change market parameters and societal norms and patterns in order to save electricity.	19,500	46	High	High
		Capacity Potential Savings in F2030 (MW)	Total Resource Cost (\$/kW-yr)		
<b>Capacity-Focused Options</b>	<b>Time-based Rates:</b> With smart metering technology, developing time-based rate structures to incent shift of electricity use from peak hours with the potential to reduce peak demand.	457	25	High	Medium
	<b>Industrial Load Curtailment:</b> Targets large customers who agree to curtail load on short notice to provide capacity relief during peak periods.	395	47	Medium	Medium
	<b>Capacity-focused Programs:</b> Leverage equipment and load management systems for peak load reductions.	346	50	High	High

Notes:

1. Values for capacity are defined as capacity potential and not necessarily dependable capacity.

## Inventory of Generation Resource Potential by Transmission Region

Resource Type	Transmission Regions											
	Peace River	North Coast	Central Interior	Kelly Nicola	Mica	Revelstoke Ashton Creek	Vancouver Island	Lower Mainland	Selkirk	East Kootenay	Total	
Woodbased Biomass	DGC (MW)	143	290	31	76	-	-	438	438	43	40	1,499
	Firm Egy. (GWh/yr)	1,140	2,309	244	609	-	-	3,491	3,491	341	321	11,946
Biogas Biomass	DGC (MW)	-	-	2	4	-	-	2	4	4	-	16
	Firm Egy. (GWh/yr)	-	-	17	33	-	-	19	32	33	-	134
MSW Biomass	DGC (MW)	-	-	-	-	-	-	12	33	13	-	58
	Firm Egy. (GWh/yr)	-	-	-	-	-	-	101	285	112	-	499
Onshore Wind	ELCC (MW)	1,202	843	238	733	-	135	233	19	17	29	3,449
	Firm Egy. (GWh/yr)	15,542	9,067	2,343	7,296	-	1,372	2,651	207	154	252	38,885
Offshore Wind	ELCC (MW)	-	3,992	-	-	-	-	1,014	199	-	-	5,205
	Firm Egy. (GWh/yr)	-	44,866	-	-	-	-	11,842	2,501	-	-	59,209
Geothermal	DGC (MW)	40	270	20	20	-	20	70	320	60	-	820
	Firm Egy. (GWh/yr)	280	2,111	140	140	-	140	534	2,505	420	-	6,272
Run of River	ELCC (MW)	5	188	55	53	22	32	671	247	13	12	1,298
	Firm Egy. (GWh/yr)	1,952	15,316	3,256	3,052	2,609	2,632	11,031	5,278	2,045	2,719	49,890
Pumped Storage	DGC (MW)	-	-	-	4,000	465	-	79,000	105,000	-	-	188,465
	Firm Egy. (GWh/yr)	-	-	-	-	-	-	-	-	-	-	-
Site C	DGC (MW)	900	-	-	-	-	-	-	-	-	-	900
	Firm Egy. (GWh/yr)	4,000	-	-	-	-	-	-	-	-	-	4,000
Resource Smart (Rev 6)	DGC (MW)	-	-	-	-	-	470	-	-	-	-	470
	Firm Egy. (GWh/yr)	-	-	-	-	-	26	-	-	-	-	26
Natural Gas-fired	DGC (MW)	-	-	-	862	-	-	101	200	-	-	1,163
	Firm Egy. (GWh/yr)	-	-	-	4,844	-	-	159	1,600	-	-	6,603
Coal-Fired with CCS	DGC (MW)	556	-	-	-	-	-	-	-	-	-	556
	Firm Egy. (GWh/yr)	3,896	-	-	-	-	-	-	-	-	-	3,896
Wave	ELCC (MW)	-	41	-	-	-	-	271	-	-	-	313
	Firm Egy. (GWh/yr)	-	418	-	-	-	-	2,088	-	-	-	2,506
Tidal	ELCC (MW)	-	-	-	-	-	-	252	-	-	-	252
	Firm Egy. (GWh/yr)	-	-	-	-	-	-	1,463	-	-	-	1,463
Solar	ELCC (MW)	1	1	1	1	1	1	1	1	1	1	11
	Firm Egy. (GWh/yr)	6	5	6	6	6	6	6	5	6	6	57
Total Dependable Capacity and ELCC (MW)		2,847	5,625	346	5,750	488	658	82,066	106,461	151	83	204,475
Total Firm Energy (GWh/yr)		26,816	74,092	6,006	15,980	2,615	4,175	33,385	15,905	3,112	3,298	185,385

### Notes:

1. The Run of River values represent the full inventory developed for the 2010 Resource Options Report.
2. Site C is currently under review and values may change.
3. Representative projects were used to characterize the natural gas-fired (CCGT and SCGT in Kelly Nicola) and coal-fired resource options.
4. The assumptions for intermittent firm energy will be refined for the 2011 IRP.

## Inventory of Supply-Side Resource Options – Unit Energy Cost Summary <sup>1</sup>

Resource Type	Project Name	Transmission Region	Average Annual Energy (GWh)	UEC @ 6% Real (\$2011/MWh)	Total Adjusters (\$2011/MWh)	Adjusted UEC (\$2011/MWh)	Level of Study	Resource Type Uncertainty	Cost Uncertainty
Biogas	Cache Creek	KL	27	77			Pre-feasibility	Low	High
Biogas	Bailey	LM	12	80			Pre-feasibility	Low	High
Biogas	Foothills Blvd	CI	17	81			Pre-feasibility	Low	High
Biogas	Glenmore	SL	18	82			Pre-feasibility	Low	High
Biogas	Campbell Mtn	SL	7	100			Pre-feasibility	Low	High
Biogas	Comox Valley	VI	8	106			Pre-feasibility	Low	High
Biogas	Minnie's Pit	LM	7	107			Pre-feasibility	Low	High
Biogas	Ecowaste	LM	13	110			Pre-feasibility	Low	High
Biogas	Mission Flats	KL	6	152			Pre-feasibility	Low	High
Biogas	Greater Vernon	SL	7	166			Pre-feasibility	Low	High
Biomass WW - RSD/SMW	WBBio_VI	VI	641	112			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_LM	LM	641	115			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_WPR	NC	139	116			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_WK	SL	312	123			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_CO	CI	244	125			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_EPR	NC	206	125			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_EK	EK	298	127			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_SP	PR	248	127			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_PG	NC	362	129			Survey	Medium	Medium
Biomass WW - RSD/SMW	WBBio_KM	KL	408	130			Survey	Medium	Medium
Biomass WW - ST	WBBio_ST_LT_EPR	NC	14	150			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_EK	EK	23	151			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_PG	NC	103	153			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_KM	KL	201	157			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_NW	NC	22	159			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_SP	PR	308	160			Survey	High	High

1. Notes on page 11.

Resource Type	Project Name	Transmission Region	Average Annual Energy (GWh)	UEC @ 6% Real (\$2011/MWh)	Total Adjusters (\$2011/MWh)	Adjusted UEC (\$2011/MWh)	Level of Study	Resource Type Uncertainty	Cost Uncertainty
Biomass WW - ST	WBBio_ST_LT_WK	SL	29	164			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_LM	LM	2,850	169			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_VI	VI	2,850	169			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_NE	PR	584	180			Survey	High	High
Biomass WW - ST	WBBio_ST_LT_WPR	NC	1,463	197			Survey	High	High
Coal	750 MW Integrated Gasification Combined Cycle	PR	3,896	81			Survey	High	High
Co-gen	Small Co-generation projects	LM	1,600	101			Conceptual	Low	Medium
Geothermal	Mt. Garibaldi	LM	394	71			Survey	Medium	High
Geothermal	Mt. Edziza	NC	1,577	72			Survey	Medium	High
Geothermal	Pebble Creek	LM	788	74			Survey	Medium	High
Geothermal	South Meager Creek	LM	788	75			Feasibility	Medium	High
Geothermal	Mt. Cayley	LM	394	82			Survey	Medium	High
Geothermal	Hoodoo Mountain	NC	394	96			Survey	Medium	High
Geothermal	Kootenay Lake	SL	140	96			Survey	Medium	High
Geothermal	Okanagan Valley	SL	140	97			Survey	Medium	High
Geothermal	Lakelse Lake	NC	140	98			Survey	Medium	High
Geothermal	Harrison Hot Springs	LM	140	101			Survey	Medium	High
Geothermal	Lower Arrow Lake	SL	140	101			Survey	Medium	High
Geothermal	Upper Arrow Lake	REV	140	103			Survey	Medium	High
Geothermal	Hudson's Hope	PR	140	105			Survey	Medium	High
Geothermal	Mt. Silverthorne	VI	394	109			Survey	Medium	High
Geothermal	Canoe Creek / Valemont	KL	140	109			Survey	Medium	High
Natural Gas	500 MW Combined Cycle Gas Turbine	KL	2,940	79			Pre-feasibility	Low	Medium
Natural Gas	250 MW Combined Cycle Gas Turbine	KL	1,450	83			Pre-feasibility	Low	Medium
Natural Gas	50 MW Combined Cycle Gas Turbine	KL	300	109			Pre-feasibility	Low	Medium
Run of River Hydro	RoR_50-60_LM	LM	89	58			Survey	Low	Medium
Run of River Hydro	RoR_60-70_LM	LM	168	63			Survey	Low	Medium

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Run of River Hydro	RoR_60-70_NC	NC	76	67			Survey	Low	Medium
Run of River Hydro	RoR_60-70_KL	KL	66	68			Survey	Low	Medium
Run of River Hydro	RoR_70-80_VI	VI	435	72			Survey	Low	Medium
Run of River Hydro	RoR_70-80_KL	KL	699	72			Survey	Low	Medium
Run of River Hydro	RoR_70-80_EK	EK	255	75			Survey	Low	Medium
Run of River Hydro	RoR_70-80_LM	LM	1,026	75			Survey	Low	Medium
Run of River Hydro	RoR_70-80_REV	REV	67	77			Survey	Low	Medium
Run of River Hydro	RoR_80-90_VI	VI	520	83			Survey	Low	Medium
Run of River Hydro	RoR_80-90_KL	KL	258	84			Survey	Low	Medium
Run of River Hydro	RoR_80-90_REV	REV	111	85			Survey	Low	Medium
Run of River Hydro	RoR_80-90_LM	LM	785	86			Survey	Low	Medium
Run of River Hydro	RoR_80-90_SL	SL	278	88			Survey	Low	Medium
Run of River Hydro	RoR_80-90_EK	EK	107	90			Survey	Low	Medium
Run of River Hydro	RoR_90-100_NC	NC	312	93			Survey	Low	Medium
Run of River Hydro	RoR_90-100_REV	REV	338	95			Survey	Low	Medium
Run of River Hydro	RoR_90-100_LM	LM	885	96			Survey	Low	Medium
Run of River Hydro	RoR_90-100_SL	SL	183	96			Survey	Low	Medium
Run of River Hydro	RoR_90-100_KL	KL	27	97			Survey	Low	Medium
Run of River Hydro	RoR_90-100_VI	VI	431	97			Survey	Low	Medium
Run of River Hydro	RoR_90-100_MCA	MCA	85	98			Survey	Low	Medium
Run of River Hydro	RoR_100-110_KL	KL	221	103			Survey	Low	Medium
Run of River Hydro	RoR_100-110_REV	REV	230	103			Survey	Low	Medium
Run of River Hydro	RoR_100-110_SL	SL	336	104			Survey	Low	Medium
Run of River Hydro	RoR_100-110_VI	VI	1,079	105			Survey	Low	Medium
Run of River Hydro	RoR_100-110_LM	LM	764	105			Survey	Low	Medium
Run of River Hydro	RoR_100-110_NC	NC	275	106			Survey	Low	Medium
Run of River Hydro	RoR_100-110_EK	EK	136	110			Survey	Low	Medium
Run of River Hydro	RoR_110-120_MCA	MCA	36	111			Survey	Low	Medium
Run of River Hydro	RoR_110-120_CI	CI	202	112			Survey	Low	Medium
Run of River Hydro	RoR_110-120_NC	NC	346	113			Survey	Low	Medium
Run of River Hydro	RoR_110-120_VI	VI	405	114			Survey	Low	Medium

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Run of River Hydro	RoR_110-120_SL	SL	185	114			Survey	Low	Medium
Run of River Hydro	RoR_110-120_KL	KL	275	114			Survey	Low	Medium
Run of River Hydro	RoR_110-120_LM	LM	468	116			Survey	Low	Medium
Run of River Hydro	RoR_110-120_REV	REV	171	116			Survey	Low	Medium
Run of River Hydro	RoR_120-130_VI	VI	370	123			Survey	Low	Medium
Run of River Hydro	RoR_120-130_CI	CI	149	123			Survey	Low	Medium
Run of River Hydro	RoR_120-130_NC	NC	389	124			Survey	Low	Medium
Run of River Hydro	RoR_120-130_LM	LM	130	124			Survey	Low	Medium
Run of River Hydro	RoR_120-130_KL	KL	254	125			Survey	Low	Medium
Run of River Hydro	RoR_120-130_EK	EK	118	125			Survey	Low	Medium
Run of River Hydro	RoR_120-130_MCA	MCA	125	127			Survey	Low	Medium
Run of River Hydro	RoR_120-130_REV	REV	90	127			Survey	Low	Medium
Run of River Hydro	RoR_120-130_SL	SL	189	127			Survey	Low	Medium
Run of River Hydro	RoR_130-140_MCA	MCA	253	132			Survey	Low	Medium
Run of River Hydro	RoR_130-140_VI	VI	413	135			Survey	Low	Medium
Run of River Hydro	RoR_130-140_KL	KL	180	135			Survey	Low	Medium
Run of River Hydro	RoR_130-140_EK	EK	36	135			Survey	Low	Medium
Run of River Hydro	RoR_130-140_REV	REV	157	135			Survey	Low	Medium
Run of River Hydro	RoR_130-140_NC	NC	422	136			Survey	Low	Medium
Run of River Hydro	RoR_130-140_LM	LM	360	137			Survey	Low	Medium
Run of River Hydro	RoR_130-140_SL	SL	85	138			Survey	Low	Medium
Run of River Hydro	RoR_140-150_SL	SL	54	143			Survey	Low	Medium
Run of River Hydro	RoR_140-150_LM	LM	553	144			Survey	Low	Medium
Run of River Hydro	RoR_140-150_KL	KL	179	145			Survey	Low	Medium
Run of River Hydro	RoR_140-150_MCA	MCA	308	145			Survey	Low	Medium
Run of River Hydro	RoR_140-150_VI	VI	911	145			Survey	Low	Medium
Run of River Hydro	RoR_140-150_REV	REV	94	146			Survey	Low	Medium
Run of River Hydro	RoR_140-150_NC	NC	251	147			Survey	Low	Medium
Run of River Hydro	RoR_140-150_EK	EK	36	147			Survey	Low	Medium
Run of River Hydro	RoR_150-160_EK	EK	175	152			Survey	Low	Medium
Run of River Hydro	RoR_150-160_REV	REV	232	154			Survey	Low	Medium

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Run of River Hydro	RoR_150-160_MCA	MCA	166	154			Survey	Low	Medium
Run of River Hydro	RoR_150-160_LM	LM	105	155			Survey	Low	Medium
Run of River Hydro	RoR_150-160_NC	NC	320	155			Survey	Low	Medium
Run of River Hydro	RoR_150-160_KL	KL	71	155			Survey	Low	Medium
Run of River Hydro	RoR_150-160_CI	CI	293	156			Survey	Low	Medium
Run of River Hydro	RoR_150-160_SL	SL	45	156			Survey	Low	Medium
Run of River Hydro	RoR_150-160_VI	VI	409	157			Survey	Low	Medium
Run of River Hydro	RoR_160-170_EK	EK	100	162			Survey	Low	Medium
Run of River Hydro	RoR_160-170_KL	KL	88	163			Survey	Low	Medium
Run of River Hydro	RoR_160-170_NC	NC	428	163			Survey	Low	Medium
Run of River Hydro	RoR_160-170_MCA	MCA	87	165			Survey	Low	Medium
Run of River Hydro	RoR_160-170_SL	SL	28	165			Survey	Low	Medium
Run of River Hydro	RoR_160-170_VI	VI	268	165			Survey	Low	Medium
Run of River Hydro	RoR_160-170_LM	LM	218	165			Survey	Low	Medium
Run of River Hydro	RoR_160-170_REV	REV	122	166			Survey	Low	Medium
Run of River Hydro	RoR_170-180_MCA	MCA	84	172			Survey	Low	Medium
Run of River Hydro	RoR_170-180_KL	KL	114	173			Survey	Low	Medium
Run of River Hydro	RoR_170-180_EK	EK	195	174			Survey	Low	Medium
Run of River Hydro	RoR_170-180_NC	NC	245	174			Survey	Low	Medium
Run of River Hydro	RoR_170-180_REV	REV	80	175			Survey	Low	Medium
Run of River Hydro	RoR_170-180_VI	VI	570	176			Survey	Low	Medium
Run of River Hydro	RoR_170-180_CI	CI	81	177			Survey	Low	Medium
Run of River Hydro	RoR_170-180_LM	LM	79	178			Survey	Low	Medium
Run of River Hydro	RoR_170-180_SL	SL	88	178			Survey	Low	Medium
Run of River Hydro	RoR_180-190_SL	SL	18	181			Survey	Low	Medium
Run of River Hydro	RoR_180-190_EK	EK	14	181			Survey	Low	Medium
Run of River Hydro	RoR_180-190_VI	VI	279	183			Survey	Low	Medium
Run of River Hydro	RoR_180-190_KL	KL	66	183			Survey	Low	Medium
Run of River Hydro	RoR_180-190_NC	NC	239	185			Survey	Low	Medium
Run of River Hydro	RoR_180-190_LM	LM	92	185			Survey	Low	Medium
Run of River Hydro	RoR_180-190_MCA	MCA	168	185			Survey	Low	Medium

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Run of River Hydro	RoR_180-190_REV	REV	149	186			Survey	Low	Medium
Run of River Hydro	RoR_180-190_CI	CI	127	188			Survey	Low	Medium
Run of River Hydro	RoR_190-200_SL	SL	34	193			Survey	Low	Medium
Run of River Hydro	RoR_190-200_EK	EK	148	194			Survey	Low	Medium
Run of River Hydro	RoR_190-200_MCA	MCA	86	195			Survey	Low	Medium
Run of River Hydro	RoR_190-200_LM	LM	137	195			Survey	Low	Medium
Run of River Hydro	RoR_190-200_NC	NC	180	195			Survey	Low	Medium
Run of River Hydro	RoR_190-200_KL	KL	82	196			Survey	Low	Medium
Run of River Hydro	RoR_190-200_REV	REV	98	197			Survey	Low	Medium
Run of River Hydro	RoR_190-200_VI	VI	201	198			Survey	Low	Medium
Site C	Site C Clean Energy Project	PR	4,606	85			Feasibility	Low	High
Wind - Offshore	OBC24-1	VI	1,685	173			Pre-feasibility	Medium	High
Wind - Offshore	OBC25-1	VI	1,200	179			Pre-feasibility	Medium	High
Wind - Offshore	OBC8-1	NC	1,772	187			Pre-feasibility	Medium	High
Wind - Offshore	OBC28	VI	1,265	194			Pre-feasibility	Medium	High
Wind - Offshore	OBC14-1	NC	1,730	198			Pre-feasibility	Medium	High
Wind - Offshore	OBC7-1	NC	1,591	199			Pre-feasibility	Medium	High
Wind - Onshore	PC28	PR	536	95			Pre-feasibility	Low	Medium
Wind - Onshore	PC20	PR	574	99			Pre-feasibility	Low	Medium
Wind - Onshore	PC10	PR	901	105			Pre-feasibility	Low	Medium
Wind - Onshore	PC13	PR	465	106			Pre-feasibility	Low	Medium
Wind - Onshore	PC18	PR	467	106			Pre-feasibility	Low	Medium
Wind - Onshore	PC19	PR	381	107			Pre-feasibility	Low	Medium
Wind - Onshore	PC48	PR	481	107			Pre-feasibility	Low	Medium
Wind - Onshore	PC14	PR	463	108			Pre-feasibility	Low	Medium
Wind - Onshore	PC09	PR	619	109			Pre-feasibility	Low	Medium
Wind - Onshore	PC21	PR	311	110			Pre-feasibility	Low	Medium
Wind - Onshore	PC16	PR	323	111			Pre-feasibility	Low	Medium
Wind - Onshore	PC15	PR	329	115			Pre-feasibility	Low	Medium
Wind - Onshore	PC11	PR	409	115			Pre-feasibility	Low	Medium
Wind - Onshore	PC06	PR	674	118			Pre-feasibility	Low	Medium



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Wind - Onshore	PC26	PR	372	119			Pre-feasibility	Low	Medium
Wind - Onshore	PC42	PR	194	120			Pre-feasibility	Low	Medium
Wind - Onshore	PC41	PR	131	121			Pre-feasibility	Low	Medium
Wind - Onshore	PC05	PR	333	122			Pre-feasibility	Low	Medium
Wind - Onshore	PC43	PR	134	124			Pre-feasibility	Low	Medium
Wind - Onshore	PC40	PR	334	124			Pre-feasibility	Low	Medium
Wind - Onshore	SI23	KL	522	130			Pre-feasibility	Low	Medium
Wind - Onshore	PC04	PR	325	130			Pre-feasibility	Low	Medium
Wind - Onshore	VI14	VI	103	130			Pre-feasibility	Low	Medium
Wind - Onshore	NC09	NC	807	135			Pre-feasibility	Low	Medium
Wind - Onshore	SI12	REV	455	135			Pre-feasibility	Low	Medium
Wind - Onshore	PC12	PR	285	135			Pre-feasibility	Low	Medium
Wind - Onshore	VI15	VI	106	135			Pre-feasibility	Low	Medium
Wind - Onshore	VI12	VI	127	138			Pre-feasibility	Low	Medium
Wind - Onshore	PC37	PR	199	138			Pre-feasibility	Low	Medium
Wind - Onshore	BC17	KL	685	139			Pre-feasibility	Low	Medium
Wind - Onshore	PC47	PR	99	140			Pre-feasibility	Low	Medium
Wind - Onshore	VI07	VI	447	140			Pre-feasibility	Low	Medium
Wind - Onshore	PC25	CI	373	142			Pre-feasibility	Low	Medium
Wind - Onshore	PC44	PR	99	142			Pre-feasibility	Low	Medium
Wind - Onshore	SI20	KL	100	143			Pre-feasibility	Low	Medium
Wind - Onshore	PC27	PR	268	143			Pre-feasibility	Low	Medium
Wind - Onshore	NC01	NC	1,493	144			Pre-feasibility	Low	Medium
Wind - Onshore	PC17	PR	270	144			Pre-feasibility	Low	Medium
Wind - Onshore	PC03	PR	209	144			Pre-feasibility	Low	Medium
Wind - Onshore	PC07	PR	313	145			Pre-feasibility	Low	Medium
Wind - Onshore	SI15	KL	665	147			Pre-feasibility	Low	Medium
Wind - Onshore	SI10	KL	264	148			Pre-feasibility	Low	Medium
Wind - Onshore	PC34	PR	755	148			Pre-feasibility	Low	Medium
Wind - Onshore	NC10	CI	217	148			Pre-feasibility	Low	Medium
Wind - Onshore	SI30	KL	324	150			Pre-feasibility	Low	Medium

Resource Type	Project Name	Transmission Region	Average Annual Energy (GWh)	UEC @ 6% Real (\$2011/MWh)	Total Adjusters (\$2011/MWh)	Adjusted UEC (\$2011/MWh)	Level of Study	Resource Type Uncertainty	Cost Uncertainty
Wind - Onshore	VI08	VI	91	150			Pre-feasibility	Low	Medium
Wind - Onshore	NC02	NC	568	151			Pre-feasibility	Low	Medium
Wind - Onshore	BC03	NC	158	152			Pre-feasibility	Low	Medium
Wind - Onshore	SI04	KL	210	153			Pre-feasibility	Low	Medium
Wind - Onshore	SI19	KL	123	153			Pre-feasibility	Low	Medium
Wind - Onshore	VI13	VI	85	153			Pre-feasibility	Low	Medium
Wind - Onshore	PC01	PR	389	153			Pre-feasibility	Low	Medium
Wind - Onshore	VI05	VI	577	155			Pre-feasibility	Low	Medium
Wind - Onshore	SI28	KL	216	156			Pre-feasibility	Low	Medium
Wind - Onshore	PC32	PR	305	156			Pre-feasibility	Low	Medium
Wind - Onshore	PC36	PR	356	156			Pre-feasibility	Low	Medium
Wind - Onshore	SI22	KL	99	157			Pre-feasibility	Low	Medium
Wind - Onshore	BC04	NC	198	157			Pre-feasibility	Low	Medium
Wind - Onshore	VI02	VI	396	158			Pre-feasibility	Low	Medium
Wind - Onshore	NC12	NC	181	158			Pre-feasibility	Low	Medium
Wind - Onshore	SI16	KL	1,310	159			Pre-feasibility	Low	Medium
Wind - Onshore	BC15	CI	509	159			Pre-feasibility	Low	Medium
Wind - Onshore	VI10	VI	77	159			Pre-feasibility	Low	Medium
Wind - Onshore	NC07	NC	244	160			Pre-feasibility	Low	Medium
Wind - Onshore	SI18	KL	281	161			Pre-feasibility	Low	Medium
Wind - Onshore	SI29	KL	253	162			Pre-feasibility	Low	Medium
Wind - Onshore	SI11	REV	272	162			Pre-feasibility	Low	Medium
Wind - Onshore	SI14	REV	192	163			Pre-feasibility	Low	Medium
Wind - Onshore	SI27	LM	207	164			Pre-feasibility	Low	Medium
Wind - Onshore	BC07	NC	263	166			Pre-feasibility	Low	Medium
Wind - Onshore	SI37	EK	69	166			Pre-feasibility	Low	Medium
Wind - Onshore	VI06	VI	276	167			Pre-feasibility	Low	Medium
Wind - Onshore	SI13	REV	453	168			Pre-feasibility	Low	Medium
Wind - Onshore	PC38	PR	272	168			Pre-feasibility	Low	Medium
Wind - Onshore	PC08	PR	124	169			Pre-feasibility	Low	Medium
Wind - Onshore	SI26	KL	219	169			Pre-feasibility	Low	Medium

Resource Type	Project Name	Transmission Region	Average Annual Energy (GWh)	UEC @ 6% Real (\$2011/MWh)	Total Adjusters (\$2011/MWh)	Adjusted UEC (\$2011/MWh)	Level of Study	Resource Type Uncertainty	Cost Uncertainty
Wind - Onshore	SI05	KL	290	170			Pre-feasibility	Low	Medium
Wind - Onshore	BC16	CI	295	171			Pre-feasibility	Low	Medium
Wind - Onshore	SI03	KL	290	171			Pre-feasibility	Low	Medium
Wind - Onshore	SI32	SL	74	174			Pre-feasibility	Low	Medium
Wind - Onshore	BC22	NC	569	175			Pre-feasibility	Low	Medium
Wind - Onshore	SI01	KL	437	175			Pre-feasibility	Low	Medium
Wind - Onshore	NC11	CI	147	175			Pre-feasibility	Low	Medium
Wind - Onshore	PC02	PR	305	177			Pre-feasibility	Low	Medium
Wind - Onshore	PC24	CI	234	178			Pre-feasibility	Low	Medium
Wind - Onshore	SI31	KL	273	179			Pre-feasibility	Low	Medium
Wind - Onshore	SI09	KL	171	181			Pre-feasibility	Low	Medium
Wind - Onshore	BC13	PR	409	181			Pre-feasibility	Low	Medium
Wind - Onshore	NC08	NC	342	182			Pre-feasibility	Low	Medium
Wind - Onshore	SI38	EK	183	182			Pre-feasibility	Low	Medium
Wind - Onshore	BC14	NC	164	183			Pre-feasibility	Low	Medium
Wind - Onshore	PC29	PR	169	183			Pre-feasibility	Low	Medium
Wind - Onshore	BC21	NC	498	186			Pre-feasibility	Low	Medium
Wind - Onshore	SI06	KL	236	192			Pre-feasibility	Low	Medium
Wind - Onshore	SI33	SL	80	193			Pre-feasibility	Low	Medium
Wind - Onshore	SI08	KL	209	195			Pre-feasibility	Low	Medium
Wind - Onshore	PC23	CI	118	196			Pre-feasibility	Low	Medium
Wind - Onshore	VI11	VI	86	196			Pre-feasibility	Low	Medium
Wind - Onshore	NC06	NC	473	198			Pre-feasibility	Low	Medium
Wind - Onshore	SI02	KL	119	199			Pre-feasibility	Low	Medium

Notes:

- Adjusted UEC values are currently being prepared and will be provided when they are available.
- Representative projects were used to characterize the natural gas-fired (CCGT in Kelly Nicola) and coal-fired resource options.
- Actual technical and financial project information may vary from that shown above and is subject to change.
- Natural gas-fired options in the above table are based on the natural gas price estimates for the period 2014-2038. They are based on the "Medium" gas price forecast in "Global Energy's Natural Gas Price Forecast for BC Hydro report" presented in Appendix I to BC Hydro's 2008 LTAP. The gas price forecasts are currently being updated for the purposes of the 2011 IRP. The UEC numbers will be revised when the updated forecasts are available.
- Site C design is currently under review and values may change.
- For presentation purposes, the bundling results have been limited to results below \$200/MWh.

## Inventory of Resource Options – Unit Capacity Cost Summary

Resource Type	Capacity Option	Transmission Region	Dependable Capacity (MW)	UCC @ 6 % Real (\$2011/kW·yr)
DSM	Time-based Rates	All	457	25
DSM	Industrial Load Curtailment	All	395	47
DSM	Programs	All	346	50
Resource Smart	Revelstoke Unit 6	REV	470	55
Natural Gas - SCGT	100 MW Simple Cycle Gas Turbine	KL	98	71
Pumped Storage	Kenyon - Stave	LM	1,000	95
Pumped Storage	Upper Deserted - Un-named	LM	1,000	95
Pumped Storage	Upper Vancouver - Lower Vancouver	LM	1,000	97
Pumped Storage	Upper Misery - Lower Misery	LM	1,000	97
Pumped Storage	Haynon - Chochiwa	KL	1,000	97
Pumped Storage	Burwell - Seymour	LM	1,000	97
Pumped Storage	Blinch - Stave	LM	1,000	99
Pumped Storage	Palisade - Seymour	LM	1,000	99

### Notes:

1. Values for DSM indicate capacity potential (in F2030) and not necessarily dependable capacity.
2. SCGT and pumped storage include fixed costs only.
3. Revelstoke Unit 6 UCC is based on the 2008 LTAP with adjustments for water rentals and inflation to \$2011.
4. For Natural Gas – SCGT a representative project has been used to characterize the resource option.
5. For presentation purposes, the bundling results have been limited to results below \$100/kW-yr.
6. UCCs are shown at the point of interconnection.
7. Actual technical and financial project information may vary from that shown above and is subject to change.