

Production Cost Savings Between No CCA and CCA (10 consolidated control areas)

Update History

July 9 batch updated runs

July 12 Heavy Summer update

July 16 spring/autumn reruns

July 28 Final Runs

Results expressed in \$ per hour		Hydro Base Price (\$/MWh)				
Case	WECC Designation	\$20	\$30	\$40	\$50	\$65
Heavy						
Spring	HSP	\$70,888	\$54,578	\$36,914	\$15,793	\$4,285
Summer	HS	\$54,146	\$40,674	\$27,240	\$19,993	\$11,542
Autumn	HSP	\$70,888	\$54,578	\$36,914	\$15,793	\$4,285
Winter	HW	\$94,931	\$81,768	\$68,683	\$64,153	\$63,315
Light						
Spring	LSP	\$21,464	\$25,923	\$15,639	\$11,054	\$544
Summer	LS	\$72,710	\$51,345	\$33,140	\$18,158	\$5,202
Autumn	LSP	\$21,464	\$25,923	\$15,639	\$11,054	\$544
Winter	LW	\$71,357	\$56,598	\$42,547	\$24,561	\$16,430

Seasonal Tabulation

Heavy	Hours per Year	Seasonal Production Cost Savings (\$)				
Spring	1240	\$87,901,120	\$67,676,720	\$45,773,360	\$19,583,320	\$5,313,400
Summer	1648	\$89,232,608	\$67,030,752	\$44,891,520	\$32,948,464	\$19,021,216
Autumn	816	\$57,844,608	\$44,535,648	\$30,121,824	\$12,887,088	\$3,496,560
Winter	1216	\$115,436,096	\$99,429,888	\$83,518,528	\$78,010,048	\$76,991,040
Light						
Spring	968	\$20,777,152	\$25,093,464	\$15,138,552	\$10,700,272	\$526,592
Summer	1280	\$93,068,800	\$65,721,600	\$42,419,200	\$23,242,240	\$6,658,202
Autumn	648	\$13,908,672	\$16,798,104	\$10,134,072	\$7,162,992	\$352,512
Winter	956	\$68,217,292	\$54,107,688	\$40,674,932	\$23,480,316	\$15,707,080

Annual Totals	
Low	\$128,066,602
Dow Jones	\$331,844,569
High	\$385,543,588

Weighted by price frequency data shown below

Analysis of DJ Price Frequency for Use in Aggregation of Hourly Savings

2003 Daily Price	20	30	40	50	65
Spring Heavy	16	53	11	4	8
Summer Heavy	6	28	76	12	0
Autumn Heavy	0	53	8	0	0
Winter Heavy	2	38	42	4	4
Spring Light	48	31	2	4	7
Summer Light	26	75	21	0	0
Autumn Light	23	38	0	0	0
Winter Light	14	52	19	1	4

2004 Daily Price	20	30	40	50	65
Spring Heavy	2	32	51	7	0
Summer Heavy	14	34	38	36	1
Autumn Heavy	0	8	36	17	0
Winter Heavy	0	6	67	18	0
Spring Light	6	67	19	0	0
Summer Light	20	58	39	5	0
Autumn Light	0	23	33	5	0
Winter Light	0	36	49	6	0

2003 Values	20	30	40	50	65	Total	
Spring Heavy	\$18,147,328	\$46,282,144	\$6,496,864	\$1,010,752	\$548,480	72,485,568	
Summer Heavy	\$5,198,016	\$18,221,952	\$33,123,840	\$3,838,656	\$0	60,382,464	
Autumn Heavy	\$0	\$46,282,144	\$4,724,992	\$0	\$0	51,007,136	
Winter Heavy	\$3,037,792	\$49,714,944	\$46,154,976	\$4,105,792	\$4,052,160	107,065,664	\$290,940,832
Spring Light	\$8,242,176	\$6,428,904	\$250,224	\$353,728	\$30,464	15,305,496	
Summer Light	\$15,123,680	\$30,807,000	\$5,567,520	\$0	\$0	51,498,200	
Autumn Light	\$3,949,376	\$7,880,592	\$0	\$0	\$0	11,829,968	
Winter Light	\$7,991,984	\$23,544,768	\$6,467,144	\$196,488	\$525,760	38,726,144	\$117,359,808
						2003	408,300,640

2004 Values	20	30	40	50	65	Total	
Spring Heavy	\$2,258,105	\$27,816,918	\$29,984,907	\$1,760,776	\$0	\$61,820,706	
Summer Heavy	\$12,073,574	\$22,026,080	\$16,486,639	\$11,463,623	\$183,833	\$62,233,748	
Autumn Heavy	\$0	\$6,954,230	\$21,165,816	\$4,276,170	\$0	\$32,396,216	
Winter Heavy	\$0	\$7,814,047	\$73,293,502	\$18,392,082	\$0	\$99,499,632	\$255,950,301
Spring Light	\$1,025,589	\$13,831,570	\$2,366,323	\$0	\$0	\$17,223,482	
Summer Light	\$11,580,720	\$23,715,789	\$10,292,681	\$723,019	\$0	\$46,312,209	
Autumn Light	\$0	\$4,748,151	\$4,109,929	\$440,150	\$0	\$9,298,230	
Winter Light	\$0	\$16,226,132	\$16,602,613	\$1,173,569	\$0	\$34,002,314	\$106,836,235
						2004	362,786,536
						Average	385,543,588