

Production Cost Savings Between No CCA and CCA (4 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	\$12,927	\$10,574	\$7,670	\$5,862	\$8,697
Summer	HS	\$10,108	\$8,702	\$6,552	\$9,357	\$3,218
Autumn	HSP	\$12,927	\$10,574	\$7,670	\$5,862	\$8,697
Winter	HW	\$14,618	\$13,645	\$13,574	\$13,531	\$19,758
Light						
Spring	LSP	\$266	\$659	\$53	\$119	\$27
Summer	LS	\$12,505	\$7,975	\$3,850	\$775	\$194
Autumn	LSP	\$266	\$659	\$53	\$119	\$27
Winter	LW	\$7,406	\$8,030	\$8,534	\$8,018	\$14,312

Seasonal Tabulation

Heavy	Hours per Year	Seasonal Production Cost Savings (\$)				
Spring	1240	\$16,029,480	\$13,111,760	\$9,510,800	\$7,268,880	\$10,784,280
Summer	1648	\$16,657,984	\$14,340,896	\$10,797,696	\$15,420,336	\$5,303,264
Autumn	816	\$10,548,432	\$8,628,384	\$6,258,720	\$4,783,392	\$7,096,752
Winter	1216	\$17,775,488	\$16,592,320	\$16,505,984	\$16,453,696	\$24,025,728
Light						
Spring	968	\$257,488	\$637,912	\$51,304	\$115,192	\$26,136
Summer	1280	\$16,006,400	\$10,208,000	\$4,928,000	\$992,000	\$248,141
Autumn	648	\$172,368	\$427,032	\$34,344	\$77,112	\$17,496
Winter	956	\$7,080,136	\$7,676,680	\$8,158,504	\$7,665,208	\$13,682,272

Annual Totals	
Low	\$41,181,141
Dow Jones	\$56,416,193
High	\$65,457,195

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	\$3,309,312	\$8,966,752	\$1,349,920	\$375,168	\$1,113,216	15,114,368
Summer Heavy	\$970,368	\$3,898,496	\$7,967,232	\$1,796,544	\$0	14,632,640
Autumn Heavy	\$0	\$8,966,752	\$981,760	\$0	\$0	9,948,512
Winter Heavy	\$467,776	\$8,296,160	\$9,121,728	\$865,984	\$1,264,512	20,016,160
Spring Light	\$12,768	\$353,224	\$8,056	\$0	\$0	374,048
Summer Light	\$2,000,800	\$3,700,400	\$1,201,200	\$31,000	\$0	6,933,400
Autumn Light	\$0	\$121,256	\$13,992	\$4,760	\$0	140,008
Winter Light	\$0	\$2,312,640	\$3,345,328	\$384,864	\$0	6,042,832
						2003
						73,201,968

2004 Values	20	30	40	50	65	Total	
Spring Heavy	\$411,784	\$5,389,279	\$6,230,271	\$653,560	\$0	\$12,684,894	
Summer Heavy	\$2,253,900	\$4,712,370	\$3,965,509	\$5,365,134	\$51,254	\$16,348,167	
Autumn Heavy	\$0	\$1,347,320	\$4,397,839	\$1,587,216	\$0	\$7,332,375	
Winter Heavy	\$0	\$1,303,966	\$14,485,186	\$3,879,215	\$0	\$19,668,366	\$56,033,802
Spring Light	\$1,589	\$43,952	\$1,002	\$0	\$0	\$46,543	
Summer Light	\$248,963	\$460,448	\$149,468	\$3,857	\$0	\$862,736	
Autumn Light	\$0	\$15,088	\$1,741	\$592	\$0	\$17,421	
Winter Light	\$0	\$287,766	\$416,265	\$47,889	\$0	\$751,921	\$1,678,621
						2004	57,712,423
						Average	65,457,195