



Power Factor Correction August 2016

***ENERGY MANAGEMENT SOLUTIONS
AUSTRALIA***





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Yates Brothers Saw Mill

22nd August, 2016

Estimated cost of Installing Power Factor Correction Equipment

Supply, install and commission High Speed PFC Unit \$42,000
Enclosure
Air Conditioning

Essential Energy – BLND3AO Tariff – Demand Charges

Peak	9.0761	\$/kVA/Month
Shoulder	9.0761	\$/kVA/Month
Off Peak	2.0744	\$/kVA/Month
Total	\$20.23	\$/kVA/Month

Based on 275kVA/ month the Demand Charges will be \$5,563 or \$66,759/year

Note: All figures Ex GST

Kind regards

David Anderson

David J Anderson

Maximum Demand & Power Factor – Previous 12 months

NFFFNRP51 YATES BROS. (STRATFORD) PTY LTD 2675 BOORAL RD BOORAL												TOU = EE Network	
Start	Finish	KwhOn	KwhMid	KwhOff	KwhTot	DmdOn	DmdMid	DmdOff	MaxDmd	MaxDmdTime	PfPkDmd	PfAv	
1/12/2015	1/01/2016	3,830	7,326	3,956	15,112	266.09	268.24	268.29	268.29	Tue 01/12/2015 06:00	0.4767	0.4613	
1/01/2016	1/02/2016	2,532	4,994	2,538	10,064	267.41	266.99	269.18	269.18	Mon 18/01/2016 06:30	0.4787	0.4578	
1/02/2016	1/03/2016	4,826	9,338	4,789	18,953	268.99	269.56	268.28	269.56	Tue 02/02/2016 10:00	0.4702	0.4517	
1/03/2016	1/04/2016	4,240	8,297	4,247	16,784	271.09	272.29	268.94	272.29	Fri 18/03/2016 10:30	0.4895	0.4623	
1/04/2016	1/05/2016	4,337	8,645	4,287	17,269	273.67	269.00	270.11	273.67	Tue 26/04/2016 09:00	0.4763	0.4541	
1/05/2016	1/06/2016	5,026	9,723	5,071	19,820	276.19	273.45	276.81	276.81	Mon 30/05/2016 07:00	0.4579	0.4490	
1/06/2016	1/07/2016	4,879	9,664	5,072	19,615	274.79	272.70	274.92	274.92	Wed 08/06/2016 07:00	0.4304	0.4615	
1/07/2016	1/08/2016	4,994	9,570	5,062	19,626	277.52	269.05	271.25	277.52	Wed 27/07/2016 08:00	0.4984	0.4715	
1/08/2016	1/09/2016	5,449	10,985	5,741	22,175	271.68	272.33	272.38	272.38	Fri 26/08/2016 06:00	0.4946	0.4749	
1/09/2016	1/10/2016	3,983	7,671	4,163	15,817	273.59	271.19	268.32	273.59	Mon 19/09/2016 09:00	0.4662	0.4668	
1/10/2016	1/11/2016	4,700	9,092	4,812	18,604	266.79	269.71	263.20	269.71	Thu 27/10/2016 12:30	0.4955	0.4738	
1/11/2016	1/12/2016	5,247	10,320	5,370	20,937	270.58	266.38	267.83	270.58	Mon 21/11/2016 09:00	0.4791	0.5800	
1/12/2016	1/01/2017	4,147	8,014	4,330	16,491	150.93	144.53	143.90	150.93	Mon 19/12/2016 09:00	0.9551	0.9727	

Cost Saving Comparison

	DmdOn	DmdMid	DmdOff	MaxDmd
Old Maximum Demand - KVA	270.58	266.38	267.83	270.58
Maximum Demand with PFC - KVA	150.93	144.53	143.90	150.93
Change in DEMAND - KVA	119.65	121.85	123.93	
Cost/KVA	\$ 9.08	\$ 9.08	\$ 2.07	
Cost Reduction/Month	\$ 1,085.96	\$ 1,105.92	\$ 257.08	2,448.96
Yearly Saving				\$ 29,387.50

Based on a \$50,000 Capital Investment, the Return On Investment (ROI) will be 1.7 years

Highest Maximum Demand & Power Factor – Previous 12 months

