## New Efficient Electrical Energy Management Activities/ Projects to be Implemented

						Target	Estimated	Est	imated Savings/ Y	Return of		
No.	CER#	Final Tender Cos (RM)	CER Discription	Brief Description	Baseline Consumption (kWHr)	Consumption (kWHr)	Investment Cost (RM)	kWHr	RM	Percentage	Investment (Yr)	Remark/ Comment(s)
1	CM2016-3-9-00002	317,096	New Zero Loss Heated Air Dryer for the Compressed Ai System - S Site	To replace the 2% lost compressed air dryer with 0% lost dryer.	453,024	95,832	317,	096 357,192	116,	02 79%	2.71	Received New Dryer on 24th Mar. Dryer T&C on 2017 MAY 18
2	Charge Out	19,800	Convert production floo fluorescent tube to LED tube ~1,100 pcs	To convert 1,100 units of fluorescent tubes to LED tubes. (additional areas)	293,438	163,394	19	800 130,044	42,	524 44%	0.47	Project Completed on Sep'17
3	Charge Out	72,400	Vacuum Piping and Headers Upgrading Project	Existing Vacuum Piping and Headers undersized. Have to upgrade them to minimize Pressure drop.	1,629,144	1,306,800	72	400 322,344	105,4	06 20%	0.69	Projected Completion: By enc Apr/2018.
4	CM2017-3-9-00003	697,700	New Centrifuga Air Compressor to replace the inefficient Old Screw Type Air Compressors (~20 years old)	Centrifugal Type is more efficient than the Screw Type Air Compressors. And, the efficiency drop of the 20 years old equipment vs the new equipment.	4,333,056	3,062,842	697,	700 1,270,214	415,3	60 29%	1.68	Projected Completion: By enc May/2018.
5	CM2016-3-7-00002	Prepare Tender document	Building Chiller System	To phase out 3 units of R11 Refrigerant Gas Chillers, and Improve N building chiller water pump efficiency. Projected Total Annual Cost Saving of RM 1,315K	20,432,000	16,894,600	#REF!	3,537,400	1,156,7	0 17%	#REF!	Project In Progress: New Chiller #1 T&C on 2018 JAN 11 New Chiller #2 T&C on 2018 FEB 08
6	No Cost	No Cost	Optimization of the AHU operation at th Building N Leve 1 - MLPN EOL	doing adjustment/halancing	148,512		- #REF!	148,512	49,	'52 100%	-	Project Completion By 2018 FEB 08

7	Charge Out	ТВА	Regulator	To install Voltage Regulator regulate the motor power usage for better effciency (Scrubber #3)	322,344	225,641	21	000 96,703	31,	i22 30%	0.66	Project Completion By end Nov/2017.
8	Charge Out	ТВА	Regulator	To install Voltage Regulator regulate the motor power usage for better effciency (Scrubber #6)	322,344	225,641	12	000 96,703	31,	522 30%	0.38	Project Completion By end Nov/2017.
Sub total, RM									1,949,818			
		Final Tender Co	S			Target	Estimated	Est	timated Savings/ Year		Return of	Remark/
No.	CER#	(RM)	CER Discription	Brief Description	Baseline Consumption (m3)	Consumption (m3)	Investment Cost (RM)				Investment (Yr)	Comment(s)
		(RM)			baseline consumption (ins)			m3	RM	Percentage		Comment(s)
8	CM2016-2-0-00002	(RM)	Reclaim	Reclaim RO reject water as raw water & treated / re-generated as DI water.	140,481		(RM)		RM 156,	-		Project Completed on end Jul 17 Cost Saving generated on FY17/18 Q1, Q2, Q3, Q4.
8	CM2016-2-0-00002		Reclaim Reverse Osmosis Rejected	Reclaim RO reject water as raw water &		(m3)	(RM) 235,		156,	-	(Yr)	Project Completed on end Jul 17 Cost Saving generated on FY17/18 Q1, Q2,
8	CM2016-2-0-00002		Reclaim Reverse Osmosis Rejected	Reclaim RO reject water as raw water &		(m3) 26,136 Gri	(RM) 235,	ing Amount, RM Saving, kWh/yea	156,	83 81%	(Yr)	Project Completed on end Jul 17 Cost Saving generated on FY17/18 Q1, Q2,