



CASE STUDY

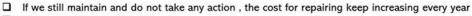


Electrical Consumptions Optimizations Device (ECOD) Saving

Breakdown & Repair Cost (Jan 2020 – Oct 2020)

Store	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Total	cost
ввт	1			2		1			1			5	RM2,910.00
вкк			1				1			1		3	RM2,900.00
ВРН		1			1		1		1			4	RM3,630.00
ВКЈ	1		1			1				1		4	RM2,910.00
BKW	1		1		1			1				4	RM3,250.00
BB1		2			1			1				4	RM4,200.00
B13				2			1			1		4	RM3,300.00
BRG	2				1				. 1			4	RM3,300.00
BU1		1				1				1		3	RM2,500.00
BJE	2		1					1				4	RM4,500.00
BSA			2			1				1		4	RM3,500.00
BBE		1			2			2				5	RM1,500.00
BSP	1			1			1		1			4	RM3,600.00
BSY		2			1			1		1		5	RM3,300.00
BRM	2			1			1		1			5	RM3,200.00

Item	Qty	Contractor (Est Cost)
Repair and replace part	1	RM1500



☐ Sale value will be decrease

☐ West stage of recourses

☐ High repair and maintenance cost of the existing equipment

☐ Impair competition



ENGINEERING PROJECT 2

ECOD (ELECTRICAL CONSUMPTION OPTIMIZATION DEVICE)

TORES ELECTRICAL OVERLOADED	(TRIPPED)	DATA -	- BEFORE	INSTALLATION
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Store	Jan-20	Feb-20	Mar- 20	Apr- 20	May- 20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Cost R&M
BSL		1				1			1	NIL	NIL	RM3600
WP1	1			1						NIL	NIL	RM2400
WCY			1		1		1			NIL	NIL	RM3600
WIJ	2			1						NIL	NIL	RM3600
BPA	1			1			1			NIL	NIL	RM3600
B14	2			1				1	3	NII	NII	RM8400

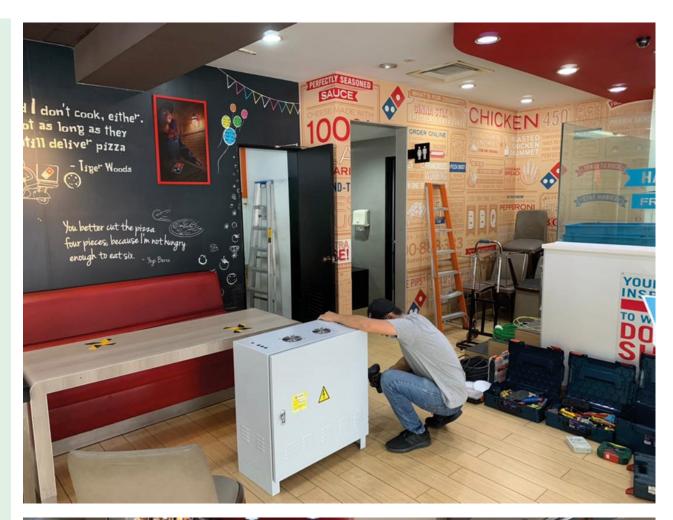
ECOD INSTALLED

Store	Account No	Date Completed	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
BSL	220289415702	14-Oct-20	5808.3 11,250 kWh	5910.65 11,628 kWh	5782.95 11,379 kWh	5303.1 10,337 kWh	5982.00 11,589 kWh	5146.26 10,111kWh
WP1	220062191800	14-Oct-20	5872.9 11,266 kWh	5944 11,689 kWh	5,647.75 11,135 kWh	5707.1 11,200 kWh	5,514.25 10,673 kWh	5,364.85 10,403 kW
WCY	220152445210	14-Oct-20	6601.75 12,248 kWh	6919.8 13,012 kWh	7036.15 13,246 kWh	6307.1 12,289 kWh	5257.8 10,187 kWh	
WJJ	220072357509	15-Oct-20	7059.95 13,859	7064.85 13,859 kWh	2,973.55	6689.5 12,998 kWh	6,706.80 12,998 kWh	
ВРА	210039254807	19-Oct-20	6439.15 12,649 kWh	5994.9 11,789 kWh	6029.2 11,820 kWh	6066.9 11,791 kWh	5,560.55 10,770 kWh	
B14	220285238109	19-Oct-20	2,595.40	4,064.95	4,044.35	4,066.95	4,128.84	

BENEFITS

- ENERGY SAVING 8%-11% AS BEEN TESTED IN SG STORES
- STABILISATION OF AMPERE (CURRENT) AND VOLTAGE EQUIPMENT LIFESPAN WILL BE EXTENDED
- DISTRUPTION OF ELECTRICAL SUPPLY OVERLOADED (TRIPPED) WILL BE HIGHLY REDUCED SAVING ON R&M AND IMPROVE STORES SALES (STORE STOP ORDER)

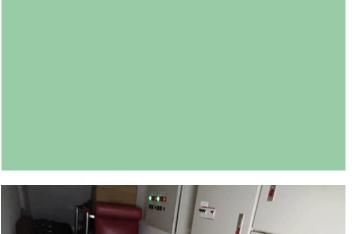
Ser	vice/goods	Object		Service/goods	Object
1	Smart-Optimizer ECOD ES-55-100	MY21000509 (BPH)	21	Smart-Optimizer ECOD ES-55-100	MY21000529 (BRG)
2	Smart-Optimizer ECOD ES-55-100	MY21000510 (WAD)	22	Smart-Optimizer ECOD ES-55-100	MY21000530 (BU1)
3	Smart-Optimizer ECOD ES-55-100	MY21000511 (BUB)	23	Smart-Optimizer ECOD ES-55-100	MY21000531 (BJE)
4	Smart-Optimizer ECOD ES-55-100	MY21000512 (BTK)	24	Smart-Optimizer ECOD ES-55-100	MY21000532 (BSA)
5	Smart-Optimizer ECOD ES-55-100	MY21000513 (BTA)	25	Smart-Optimizer ECOD ES-55-100	MY21000533 (BBE)
6	Smart-Optimizer ECOD ES-55-100	MY21000514 (BSR)	26	Smart-Optimizer ECOD ES-55-100	MY21000534 (BSP)
7	Smart-Optimizer ECOD ES-55-100	MY21000515 (WSD)	27	Smart-Optimizer ECOD ES-55-100	MY21000535 (BBT)
8	Smart-Optimizer ECOD ES-55-100	MY21000516 (WTS)	28	Smart-Optimizer ECOD ES-55-100	MY21000536 (BRM)
9	Smart-Optimizer ECOD ES-55-100	MY21000517 (WTM)	29	Smart-Optimizer ECOD ES-55-100	MY21000537 (BBS)
10	Smart-Optimizer ECOD ES-55-100	MY21000518 (WSG)	30	Smart-Optimizer ECOD ES-55-100	MY21000571 (BKY)
11	Smart-Optimizer ECOD ES-55-100	MY21000519 (WML)	31	Smart-Optimizer ECOD ES-55-100	BSL
12	Smart-Optimizer ECOD ES-55-100	MY21000520 (WBS)	32	Smart-Optimizer ECOD ES-55-100	WCY
13	Smart-Optimizer ECOD ES-55-100	MY21000521 (BDJ)	33	Smart-Optimizer ECOD ES-55-100	MJJ
14	Smart-Optimizer ECOD ES-55-100	MY21000522 (BSW)	34	Smart-Optimizer ECOD ES-55-100	WP1
15	Smart-Optimizer ECOD ES-55-100	MY21000523 (WTC)	35	Smart-Optimizer ECOD ES-55-100	B14
16	Smart-Optimizer ECOD ES-55-100	MY21000524 (BKJ)	36	Smart-Optimizer ECOD ES-55-100	ВРА
17	Smart-Optimizer ECOD ES-55-100	MY21000525 (BKK)	37	Smart-Optimizer ECOD ES-55-100	BSN
18	Smart-Optimizer ECOD ES-55-100	MY21000526 (BKW)	38	Smart-Optimizer ECOD ES-55-100	WDH
19	Smart-Optimizer ECOD ES-55-100	MY21000527 (BB1)	39	Smart-Optimizer ECOD ES-55-100	CIM
20	Smart-Optimizer ECOD ES-55-100	MY21000528 (B13)	40	Smart-Optimizer ECOD ES-55-100	WMM
21	Smart-Optimizer ECOD ES-55-100	MY21000529 (BRG)	41	Smart-Optimizer ECOD ES-55-100	BDP
22	Smart-Optimizer ECOD ES-55-100	MY21000530 (BU1)	42	Smart-Optimizer ECOD ES-55-100	BB2
23	Smart-Optimizer ECOD ES-55-100	MY21000531 (BJE)	43	Smart-Optimizer ECOD ES-55-100	BAB
24	Smart-Optimizer ECOD ES-55-100	MY21000532 (BSA)	44	Smart-Optimizer ECOD ES-55-100	BHL
25	Smart-Optimizer ECOD ES-55-100	MY21000533 (BBE)	45	Smart-Optimizer ECOD ES-55-100	BSY
26	Smart-Optimizer ECOD ES-55-100	MY21000534 (BSP)	46	Smart-Optimizer ECOD ES-55-100	ВРК
27	Smart-Optimizer ECOD ES-55-100	MY21000535 (BBT)	46	Smart-Optimizer ECOD ES-55-100	ВРК
28	Smart-Optimizer ECOD ES-55-100	MY21000536 (BRM)			
29	Smart-Optimizer ECOD ES-55-100	MY21000537 (BBS)			
30	Smart-Optimizer ECOD ES-55-100	MY21000571 (BKY)			
31	Smart-Optimizer ECOD ES-55-100	BSL			
32	Smart-Optimizer ECOD ES-55-100	WCY			
33	Smart-Optimizer ECOD ES-55-100	MII			
34	Smart-Optimizer ECOD ES-55-100	WP1			
35	Smart-Optimizer ECOD ES-55-100	B14			
36	Smart-Optimizer ECOD ES-55-100	ВРА			
37	Smart-Optimizer ECOD ES-55-100	BSN			
38	Smart-Optimizer ECOD ES-55-100	WDH			
39	Smart-Optimizer ECOD ES-55-100	CIM			
40	Smart-Optimizer ECOD ES-55-100	WMM			























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