

	ENERGY EFFICIENCY GUIDELINES FOR CKE DESIGN	CKE.GP.04. 01.(01).2010
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Appendix 4

Senarai Semak Rekabentuk Kecekapan Tenaga (Aspek Elektrik) – MyCREST

Kumpulan BPR:	Nama PRB:
Nama Projek :	
Kos Projek (Keseluruhan):	Kos Projek (Elektrik):
Kaedah Pelaksanaan: Konvensional Dalam ☐ Konvensional Perunding ☐ Reka & Bina ☐	
Jumlah Keluasan Lantai (m ²): (berdasarkan luas keseluruhan)	Jumlah Keluasan Lantai (m ²): (berdasarkan luas kawasan berhawa dingin)
Beban Keseluruhan – M.D (kW):	Beban Lampu – M.D (kW):
	Beban Plug Load – M.D(kW):
	Beban Mekanikal – M.D (kW):
Lighting Power Density (W/m ²): Plug Load Density (W/m ²): (berdasarkan luas keseluruhan) (berdasarkan luas keseluruhan)	
*LPD should be $\leq 12\text{W/m}^2$	

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Kriteria pemilihan bagi item di bawah adalah berdasarkan *Malaysian Carbon Reduction & Environmental Sustainability Tool (MyCREST) – A Reference Guide for Design Stage Certification*.

No.	Keterangan	Rujukan My CREST	Skor			Ulasan Ketidakpatuhan (sila pilih kategori ulasan yang berkaitan)
			Maksima	Perekabentuk	Pemverifikasi	
1.0	Control in External Light Spill and Brightness					
1.1	Comply with the interior lighting AND the requirement for exterior lighting for light spill and brightness	IS 7	1			
2.0	Decentralization of lighting systems control					
2.1	Control of lighting through zoning	EP 2.1	1			
2.2	Automatic motion sensors in all toilets and staircase	EP 2.2	1			
3.0	Admission of daylight and provision of automatic controls in the daylit zone					
3.1	Automatic daylight (photo sensors) sensors	EP 3.1	1			
4.0	Artificial lighting					
4.1.1	15% improvement in Lighting Power Density (LPD)	EP 4.1	1			
4.1.2	20% improvement in Lighting Power Density (LPD)	EP 4.1	2			
4.1.3	25% improvement in Lighting Power Density (LPD)	EP 4.1	3			
4.1.4	30% improvement in Lighting Power Density (LPD)	EP 4.1	4			
4.2	LED lighting for 24 hours area / usages and efficient lighting in carpark areas	EP 4.2	1			

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No.	Keterangan	Rujukan My CREST	Skor			Ulasan Ketidakpatuhan (sila pilih kategori ulasan yang berkaitan)
			Maksima	Perekabentuk	Pemverifikasi	
5.0	Individual metering					
5.1	Sub-meter switch boards for each services system $\geq 100\text{kVA}$	EP 5	1			
6.0	Renewable energy					
6.1	Provide renewable energy of 0.5% from total building electrical consumption	EP 6	1			
6.1.1	Provide renewable energy of 1% from total building electrical consumption	EP 6	2			
6.1.2	Provide renewable energy of 2% from total building electrical consumption	EP 6	3			
6.1.3	Provide renewable energy of 3% from total building electrical consumption	EP 6	4			
Markah efektif: Bangunan kesihatan (Occupant & Health)						
7.0	Daylight & views: lighting & circadian rhythms					
7.1	Reinforce natural circadian rhythms (sleep/wake patterns) in patients and day time staff, and promote alertness in both day-shift and night-shift staff	HC 5	1			
8.0	PBT Source Decrease – Mercury in Lamps					
8.1	Reduce the release of persistent bio-accumulative and toxic chemicals (PBTs) associated with the lifecycle of building materials	HC6	1			
Jumlah Skor			16			

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Jadual 1 : ULASAN KETIDAKPATUHAN

Kategori	Keterangan
1	Skop MyCREST dikurangkan semasa program Pengurusan Nilai (VM)
2	Tiada peruntukan oleh pihak pelanggan
3	Kos projek terhad
4	Pihak pelanggan tidak berminat
5	Tiada keutamaan di pihak HOPT
6	Tiada keutamaan di pihak HODT
7	Tiada kesedaran dan kefahaman kriteria di dalam MyCREST
8	Lain-lain (sila nyatakan)

SKOR

Jumlah Skor	Bintang	Skor*
0 - 5	Tiada Bintang	
6 - 8	★	
9 - 11	★ ★	
12 >	★ ★ ★	

*Untuk tindakan Pegawai Verifikasi UPKTE

Disediakan oleh:

Disemak oleh:

Disahkan oleh:

.....
Nama:
Pegawai Rekabentuk

.....
Nama:
Ketua Pegawai Rekabentuk

.....
Nama:
Pegawai Verifikasi (UPKTE)

