

SEKSYEN 13 PETALING JAYA (LCC-Z-B100-02-0001 (D))

LOW CARBON DESIGN CRITERIA

Element	Measure	Unit	EF	Unit	BAU	Design	Impact
Energy	BEI	kWh/m2	0.694	kg CO2/kWh	210	200	50%
Water	RWH	m3	0.419	kg CO2/m3	-	10%	10%
Waste	RECYCLE	tonne	586.531	kg CO2e/ton	-	10%	10%
Mobility	CARS	VKT	0.184	kg CO2e/km	-	5%	30%
Greenery	LANDSCAPE	ha	2,000.00	kg CO2/ha/yr	10%	15%	-






CARBON EMISSIONS REDUCTION ESTIMATION, tCO2e

Element	BAU	Unit	Est. kg CO2e	Design	Unit	Est. kg CO2e	% Reduction
Energy	210	kWh/m2	145.74	200	kWh/m2	138.80	2.38%
Water	100	m3	41.90	90	m3	37.71	1.00%
Waste	100	tonne	58,653.13	90	tonne	52,787.82	1.00%
Mobility	100	VKT	18.37	95	VKT	17.45	1.50%
TOTAL ESTIMATED CARBON EMISSIONS REDUCTION							5.88%

CARBON SEQUESTRATION ESTIMATION, tCO2e

Element	BAU	Unit	Est. kg CO2	Design	Unit	Est. kg CO2	% Increase
Greenery	9.44	ha	18,881.01	14.16	ha	28,321.52	50.00%
TOTAL ESTIMATED INCREASE IN CARBON SEQUESTRATION							50.00%

This is to verify that
MAJLIS BANDARAYA PETALING JAYA
 for the redevelopment of
SEKSYEN 13, PETALING JAYA
 has introduced low carbon design criteria that has the potential
 to reduced its GHG emissions by
5.88%
 and increase its carbon sequestration potential by
50.00 %
 as compared to a conventional development.

ELEMENT	REDUCTION ACHIEVED	DIAMOND LEVEL
ENERGY	2.38%	
WATER	1.00%	
WASTE	1.00%	
MOBILITY	1.5%	
ELEMENT	SEQUESTRATION	DIAMOND LEVEL
GREENERY	50%	

MBPJ Low Carbon Design Criteria

Plot Ratio

- A maximum plot ratio of 1 : 3.5 can be given for any development that meets some of the following green criteria:
 - Low Carbon Mobility
 - ✓ Pedestrian walkways including bridges, escalators and landscaped sidewalks
 - ✓ Bicycle lanes
 - ✓ Bus and Taxi Stops with lay by
 - Green Buildings
 - Increased public green spaces up to 40%

Green Building

- Minimum 'Certified' green building rating

Rooftop Garden

- Minimum 10,000 sqft rooftop garden for residential and commercial buildings

Green Space

- Minimum 15% green space (not including rooftop garden)