



UMPSA ELECTRICITY CARBON FOOTPRINT 2022 (SEPT 2022 - AUG 2023)

ITEMS	UNIT / YEAR	CO2 (TONN)
ELECTRICITY	26,553,683.52 kWh	16,967.80
BUS	2 bus	0.03
CAR	550 cars	132
MOTORCYCLE	256 motorcycle	8
INITIATIVES TO REDUCE CO ₂		
RENEWABLE ENERGY	260,149 kWh	166.24
ENERGY EFFICIENCY	7,312,789.52 kWh	4672.87
TREE PLANTING	13,944 plants	418.82
Total		11,856.92

11,849.90 metric tons: 18,980,745.00 kWh of electricity at 0.639 kgCO₂e/kWh

We are using based on 0.639 kgCO₂ Coefficient factor for Malaysia Peninsular

= 18,980,745 x (0.639/1000/17,903) = **0.67 metric tons**

Description:

As developing campuses, UMPSA facing slight of increasing of electricity usage, due to construction works inside the campus. There is still on development building and the numbers of people in UMP keep on increasing toward of the development occurs. Every building need electricity, that the fact that can't deny, due to this factors UMP will facing slight increment of electricity bills monthly.

3.58 MWp Solar system installation in UMPSA, Pekan began on May 2023, expeted complition on 31 October 2023 Pekan. Solar panel been installed on the roof top dan 159 kWp were installed at Lake A UMPSA Pekan. Electricity generation from solar is expected to be up to 4,467,117 kWh per year.