

CO₂ emission at university campus

Annual CO₂ emission both Scope 1 and Scope 2 at the university campus is estimated taking the total number of vehicles on campus as well as total amount of energy generated by fuel and solar resources.

SCOPE-1							
University own Vehicle							
	Number of Vehicle					27	
	Average travel distance inside campus					5	Km
	CO ₂ generation Factor					0.0002	mt/day
	Number days					240	
	CO ₂ emission per year					12.96	MT/year
Faculty and Student Vehicle							
	Number of Vehicle					389	
	Average travel distance inside campus					1.5	Km
	CO ₂ generation Factor					0.0002	mt/day
	Number days					240	
	CO ₂ emission per year					56.016	MT/year
Faculty and Student Two wheeler							
	Number of Vehicle					1486	
	Average travel distance inside campus					1.6	Km
	CO ₂ generation Factor					0.0001	mt/day
	Number days					240	
	CO ₂ emission per year					114.124	MT/year
						8	
	Total CO₂ Emission					183.1	MT/yea r

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SCOPE-2					
Emission from Diesel Generator					
CO2 generation Factor			2.69312 2	Kg of CO2/Liter of Diesel	
Diesel Consumption (2023)			5362	Liter	
Carbon Emission			14440.5 2	Kg/year	
			14.4405 2	M.T/year	
Emission from Electricity Consumption					
Total Energy used per year			7590888	kWh	
Solar Energy Generation			2763626	kWh	
NET Electricity consume from grid			4827262	kWh	
CO2 generation Factor			0.8	Kg of CO2/kWh	
Carbon Emission			3861810	Kg/year	
			3861.81	M.T/year	
Total CO₂ Emission			3876	MT/year	

The university is determined to reduce the annual emission at the rate of about 5% as indicated in the policy statement.

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Total GHG emissions **targets as per the GHG protocol**

Scope 1 (Direct Emissions on Campus): At least 10% reduction by 2030 with a target to achieve 25% reduction by 2035 from the baseline.

Scope 2 (Indirect Emissions by use of Electricity): 10% reduction by 2030.

Scope 3: JMI recognizes the importance of addressing the full spectrum of emissions. In line with our long-term sustainability goals, JMI has made the strategic decision to commence the assessment of Scope-3 emissions starting in the year 2030. This deliberate timeline allows the university to first establish a solid foundation in understanding and mitigating our direct emissions, ensuring that our efforts are comprehensive and effective. By expanding our focus to include Scope-3 emissions, we aim to further refine our sustainability strategies. This proactive approach will enable us to identify additional opportunities for emission reductions, promote responsible procurement practices, and strengthen our contribution towards achieving net-zero emissions by the year 2070