K J Somaiya College of Engineering

A Constituent College of Somaiya Vidyaviliar University Course: Introduction to Project Based Learning

Template for carbon footprint Activity

Statement Given:

Calculate your carbon footprint, compare it with global average and list various measures that you will adopt to reduce your carbon footprint.

Evaluation Criteria:

- 1. Calculations of carbon emissions from electrical consumption and transportation
- 2. Adaptable ideas for reducing carbon footprint
- 3. Your reflections and learning outcomes

Performance-10 Marks

Submission-05 Marks

Team

Sr No	No Roll No Name		Sustainable Idea Contribution	
1 -	16010423075	Ritesh Gorule	Research Work	
2	16010423076	Ritush Tha	Risearch Work	
3	16010423077	Ritwik Mohanty	Tech and Calcul-	
4	16010423078	Riya Amin	pocumentation	
5	16010423079	Rohan Jobanpuka	rech and calculation	

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Carbon footprint Calculations:

Use provided calculator https://www.tatasustainability.com/Environment/CarbonCalculator

Instructions:

- 1. Details are required for a year (Calculate for a day and multiply accordingly)
- 2. Calculations are for per person (Divide electricity consumption and LPG at home by number of family members)

	CARB	ON FOOTPRI	NT CALCULA	TIONS	
	427-040000	Team Memb	Team Members		
Carbon Emission Activity	1	2	3	4	5
ANNUAL				1000	2100
Electricity Use per person(kWh)	1700	2100	1800	1900	
Travel	1、1、2000年度	kii mankan	- 000	7000	5000
Air Travel (Km)	0	1000	2 000	3000	100000000000000000000000000000000000000
Rail Travel (Km)	8600	10000	8000	1000	8000
Metro Travel	0	0	200	200	0
(Km) Bus Travel (Km)	270	0	200	100	200
Electric Bus Travel (Km)	150	0	100	200	0
Taxi/Cab/Auto Travel (Km)	0	200	1.000	500	500
Private Vehicle		race and the State of the			1.00
Diesel (Litres)	300	300	0	100	0
Petrol (Litres)	0	100.	400	500	100
CNG (Litres)	0	D	D	0	0

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Fuel at Home LPG (Kg)	42	100	100	200	200
Food (Meals) Put a Tick √ mark					
Vegetarian		/			/
Non -Vegetarian			~	V	
Vegan					
Total Carbon Footprint (Tonnes)	4·35 Tonnes	3.89 Tonnes	5.69 Tonnes	5.50 Tonnes	3.63 Tonnes
Comparison with Indian Average	1.8 Tonnes	1.8 Tonnes	1.8 Tonnes	1.8 Tonnes	1.8 Tonnes
Comparison with Global Average	4.5 Tonnes	+·5 Tonnes	4.5 Tonues	4.5 Tonnes	4.5 Tonnes

Observations & Interferences:

In summary, by calculating the family's carbon footprint and comparing it to the global average we have identify areas for improvement we plan to reduce our impact by using energy efficient appliances, transitioning to renewable energy, and making more stistainable transportation choices. This excuise has rinforced our commitment to a greener rifestyle umate change. and our role in addressing

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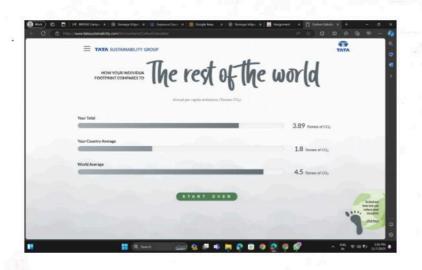
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Measures to Reduce Carbon footprint:

	Measures you will implement to reduce your carbon footprint
1	Using energy officient electrical appliances.
2	Conserving water and food.
3	
4	using Public transport for travel rather than walk instead of using vehicles for short
5	Use eco friendly products
6.	support sustainable solutions and companies.

Participating in that carbon footprint activity was farticipating in that carbon footprint activity was quite an leye-opener. It showed us how our daily choices, like transformation, our belongings and choices, like transformation, our belongings and choices, significantly impact the inviconment our diet, significantly impact the inviconment our diet, significantly about what we can do It got us thurking about what we can do to be more eco-friendly

Photos of the Activity





(1) Identify the SDGs you can connect with?

> No poverty, zero hunger, Good hearth and well being, quality education, affordable and clean energy, Decent work and economic growth, industry innovation and infrastructure, Reduced inequalities, sustainable cities and communities and responsible consumption and production

(2) How as an Engineer you can contribute to SDGs?

-> Engineers significantly contribute to the sustainable Development Goals (SDGs) by leveraging their expertise in designing, unrovating and implementing sustainable solutions. From creating renewable energy technologies and resilient inpastructure to designing clean water systems, medical devices, and irrovative waste management solutions, engineers play a pivotal role across multiple SDGs.

Engineers apply their knowledge to tackle the important challings in the sustainable bevelopment Goals (50Gs), aiming to create a better world that's fairer and more sustainable for everyone today and for the generalson to come