A Constituent College of Somaiya Vidyavihar 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	Roll No	Name	Sustainable Idea Contribution
1	51	Shrep Naire	Research
2	52	Shreya Menon	Analysis
3	53	Shreyans Tatiya	Research
-4	54	Shreyash Thakur	Analysis
5	55	Shriya Shetty	Research

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

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)
- Calculations are for per person (Divide electricity consumption and LPG at home by number of family members)

	CARB	ON FOOTPR	UNT CALCUL	ATIONS			
Carbon Emission	Team Members						
Activity ANNUAL	1 Shreya Navr	2 Shuiya Shutty	3 Shureya Mercon	Sheyans Takiya	5 Sheyark Thakur		
Electricity Use per person(kWh)	100	100	100	100	135		
Travel							
Air Travel (Km)							
Rail Travel (Km)				7200	40000		
Metro Travel (Km)							
Bus Travel (Km)		400					
Electric Bus Travel (Km)			*				
Taxi /Cab/Auto Travel (Km)	400				800		
Private Vehicle			7200		400		
Diesel (Litres)					,		
Petrol (Litres)			330		28		
CNG (Litres)		-					

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

Fuel at Home			to Project Based [1	
LPG (Kg)	145	145	145	145	145
Food (Meals)	— —				1,43
Put a Tick √ mark					
Vegetarian	1	/		-	
Non -Vegetarian					
Vegan					
Total Carbon					
Footprint (Tonnes)	2.35	2.20	2.77	2.35	2.80
Comparison					
with Indian Average	1.80	1-80	1.80	1.80	1.80
Comparison					
with Global Average	4.50	4.50	4.50	4-50	4-50

Observations & Interferences:

In conclusion, to we have to take effective measures to bring our carbon poot print to less than the Indian average.

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

Measures to Reduce Carbon footprint:

_	Measures you will implement to reduce your carbon footprint
1	Implementing the 3R's fin each of our household
2	Using environ in a conservative marrier.
3	Replacing I usual products with ew-friendly produ
4	Cut down on using ACs and elevators.
5	o Long of Long.
6	Checking energy natings of appliances before purchase

Learning Outcomes and reflections on activity

From the above activity we learnt that most of our carbon footprint, footprint is greater than the aug. Indian carbon footprint, mainly because of travel Hence, we need to find more sustainable forms of travel and also reduce carbon footprind in other ways possible.

Photos of the Activity

Identify SDGs, which you connect and as an engineer contribute to.

Quality Education

As an engineer we can contribute to quality education in the following ways:-

- 1 Education Infrastructure
 Building reliable & resilient online infrastructure to reach out to
 the remote villages on
- 2. Curviculum Development Focusing more on practical learning and experience based Learning from notable members of the industry
- 3. Advocacy and Policy
 Engage with local of national authorities to influence decision-making
 for educational improvements.

SDG aims to ensure inclusive and equitable quality education and promote lifelong leavening opportunities for all.

It empowers individuals and equals the playing field in terms of education. Achieving this goal sequires addressing stoot level problems such as access to education, teacher training, curriculum development and integration of technology in leavening. Quality Education of 5000 emphasizes the above. As an engineer we believe that through our learning we can boost the current education quality by a huge margin.