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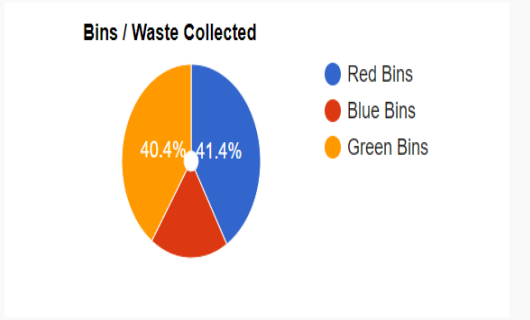
Tulips Bungalows - Ahmedabad

Society Dashboard

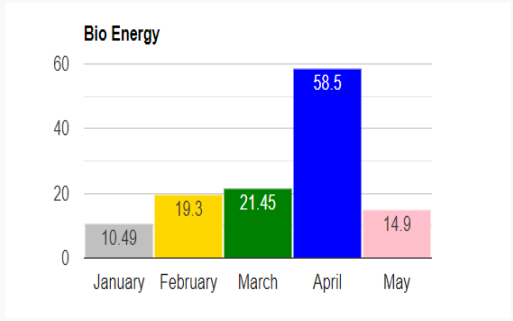
196 Tons of Co2
Total Footprints

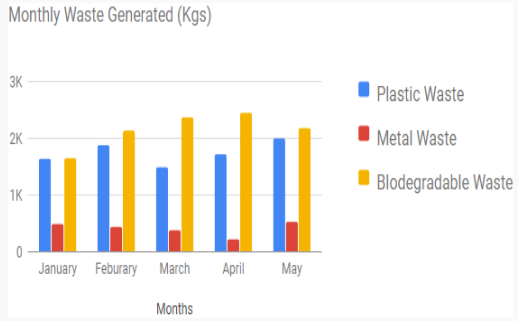
34000 kWh
Total Units

4.4 Tons of Co2
Average Footprints



	Name	Avg Footprint	Green Bins/day	Red Bins/day	Blue Bins/day
1	Mike	4.6	1	2	1
2	Kathan	4.8	1.5	3	2
3	Tanmay	3.9	1	1	2
4	Dhruv	4.8	1	2	1
5	Maharshi	4.5	3	1	1
6	Jenil	4.3	1	1	1
7	Harshal	4.1	3	2	1
8	Krish	4.9	1	1	3
9	Jainam	4.0	1	2	2
10	Bhavya	4.7	1	1	1
11	Krishil	4.2	1	2	1
12	Yash	4.1	2	3	2





170 Tons of Co2
Target Footprint

34000 kWh
Bio Energy Production

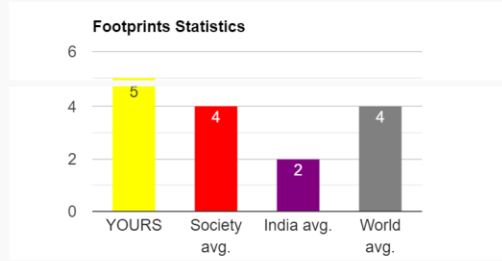
38.6 %
Achieved Footprints

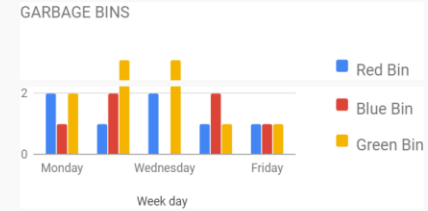
Resident Dashboard

Your current footprint	BINS-{FRIDAY}		
YEAR of 2021	Red	blue	Green
5.1 tons of co2	0.7kg	0.4kg	1.2kg

Eqivalent Bio-Energy	
Month of April	
Total Green Wastes	Equi. Energy
100kg	8.25m3

Target Process	
Target Footprint (2022)	% Achieved
4.7 tons of CO2	56%





Population	JAN-MARCH	MARCH-JUNE	JUNE-AUG
BILL DISCOUNT	100RS	120RS	110RS

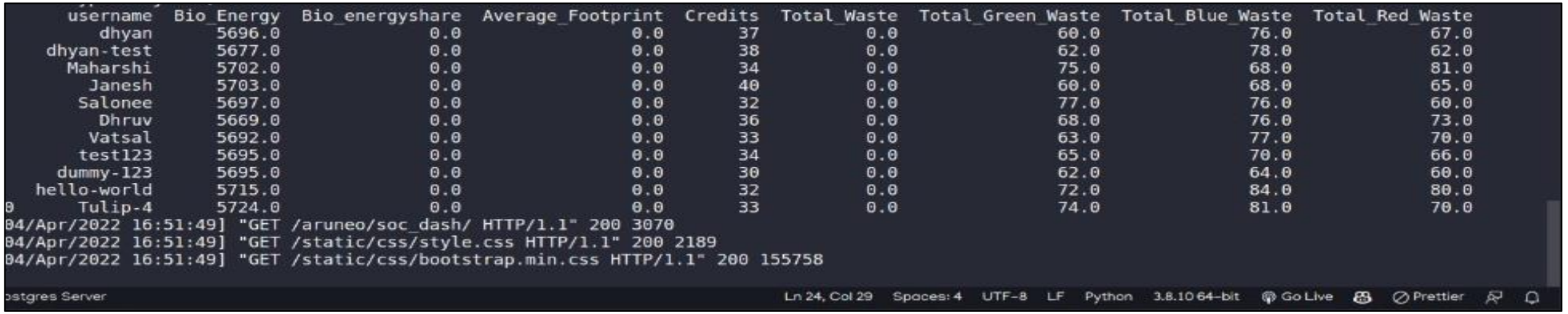
CREDITS
70 points

Raw waste data per resident per day

Aruneo Data

data_id	soc_id_id	date	user_associated_id	Green Waste (in KG)	Blue Waste (in KG)	Red Waste (in KG)
2022-02-02_Sarjan Tower_dhyan	1	2022-02-02	0	0.875	1.282	2.06
2022-02-03_Sarjan Tower_dhyan	1	2022-02-03	0	2.124	2.447	0.506
2022-02-04_Sarjan Tower_dhyan	1	2022-02-04	0	1.076	2.429	0.646
2022-02-05_Sarjan Tower_dhyan	1	2022-02-05	0	2.136	1.986	0.967
2022-02-06_Sarjan Tower_dhyan	1	2022-02-06	0	1.229	0.915	2.062
2022-02-07_Sarjan Tower_dhyan	1	2022-02-07	0	1.815	1.247	0.516
2022-02-08_Sarjan Tower_dhyan	1	2022-02-08	0	1.989	1.891	2.481
2022-02-09_Sarjan Tower_dhyan	1	2022-02-09	0	1.214	2.304	1.901

Municipal mock report



username	Bio_Energy	Bio_energyshare	Average_Footprint	Credits	Total_Waste	Total_Green_Waste	Total_Blue_Waste	Total_Red_Waste
dhyan	5696.0	0.0	0.0	37	0.0	60.0	76.0	67.0
dhyan-test	5677.0	0.0	0.0	38	0.0	62.0	78.0	62.0
Maharshi	5702.0	0.0	0.0	34	0.0	75.0	68.0	81.0
Janesh	5703.0	0.0	0.0	40	0.0	60.0	68.0	65.0
Salonee	5697.0	0.0	0.0	32	0.0	77.0	76.0	60.0
Dhruv	5669.0	0.0	0.0	36	0.0	68.0	76.0	73.0
Vatsal	5692.0	0.0	0.0	33	0.0	63.0	77.0	70.0
test123	5695.0	0.0	0.0	34	0.0	65.0	70.0	66.0
dummy-123	5695.0	0.0	0.0	30	0.0	62.0	64.0	60.0
hello-world	5715.0	0.0	0.0	32	0.0	72.0	84.0	80.0
0 Tulip-4	5724.0	0.0	0.0	33	0.0	74.0	81.0	70.0

- Values of Bio-energy share , Avg footprint and total waste comes after a month of data generation, hence it is 0 for a particular day.

Result / End Parameters calculation method

	Conventional/Present method	Project method	Results
Carbon Foot print Impact	**Conventional Electricity Per capita per month** 250 kWh units/home 150 kWh units share of fossile fuel (60% share) (136.50kg CO2 emission (0.91 kg/kWh emission factor in fossil fuel) 1.632 ton/year CO2 footprint	**Bio-electricity per capita per month** 8.64 kg /home (35% share of organic matter in 24kg waste/month/home generated) 1.29 to 6.91 m3 bio-mass (0.15m3/kg to 0.8m3/kg conversion factor) 5.2 to 27.6 kWh electricity (Bio-Electricity factor:4.1) 1.33 to 1.58 ton/year (2.5% to 11% share in monthly electricity requirement)	8 to 19% footprint reduction
	By Waste generation 31.2% share in waste incineration (24 kg waste produced/person/month 7.48 kg per capita waste incinerated 8.98-11.98 kg CO2 emission (1.2 to 1.6 kg / kg waste emission factor) 0.11-0.14 on/year CO2 footprint BY WASTE 1.772 to 1.742 ton/year CO2 footprint -TOTAL	**By plastic waste recycle & Eco-brick** 8% share of plastic waste in total waste 31.2% 23.2% (5.5kg) share in incineration after plastic recycle percentage (31.2%-8%) 0.079 to 0.105 ton/year Footprint after Eco-brick treatement and plastic recycle. 1.63 to 1.43 ton/year CO2 footprint - TOTAL	
Electricity Impact	**Conventional Electricity consumption** Taking 5667 kWh unit equivalent to Bio-electricity consumption	**Bio-Electricity consumption** Biomass conversion: 0.15m3/kg to 0.8m3/kg Bio-electricity factor: 4.1 8.64kg organic matter in total waste-35% of 24kg waste generated per capita/month 1728kg organic waste per month for 200 houses avg in a society 5667 kWh equivalent Bio-electricity consumption (1728kg x 0.8m3/kg (Biomass) x4.1 (Bio-elect factor))	Bio-electricity is cheaper by 14167Rs./ 242.2 CAD (36%) for society/month
	Conventional Electricity Cost Generation average cost= 7Rs/ kWh 39669 Rs. Total Cost of Fossil-fuel based electricity	**Bio-Electricity Cost** Generation cost per kWh= Biomass-3Rs + Handling/sizing-0.50Rs + Maintenance & Overheads-1Rs.+ Transportation-2Rs = 5.50Rs Final cost = 4.50Rs. (5.50Rs.-1Rs. selling of organic matter by society) 25502 Rs - Total Cost (5667 kWh x 4.50Rs)	Bio-electricity is cheaper by 70.83Rs./ 1.21 CAD per capita per month
Cooking Gas Impact	**LPG & PNG cost per capita** 12-15kg/month - Per capita Gas consumption LPG cost: 63.35Rs/kg ie 760-950Rs / month PNG cost:830Rs/1MMBTU ie 303-378Rs / month	**Compressed Bio-Gas-CBG cost per capita** 12-15kg/month - Per capita Gas consumption CBG cost:25Rs/kg ie 300-375Rs / month. From 1728kg waste generated we get about between 7.2-11.4% of CBG share / Total Gas consumption	CBG is 60% cheaper than LPG CBG is 2-3% cheaper than PNG
LANDFILL SHARE	72 % of the waste collected disposed in landfills in unheigenic manner 17.3Kg per capita waste disposed to landfills (72% of 24kg)	21% of organic and almost 20% of plastic waste diverted from landfill So, only 31% of the waste collected is disposed into landfills	41% or 9.84 Kg waste diverted from landfill

- All data taken from reliable sources
- Some unavoidable assumptions in landfill share taken