

Marianne Strokirk Salon

Carbon Footprint: Brief Summary from Facilities and Employees
Analysis on 2/25/09

Analysis based on an excellent report from the Smart Energy Design Assistance Center (SEDAC) with contributions from Mr. Jason Freiman from Marianne Strokirk Salon.

Marianne Strokirk Salon carbon footprint = 98.37 metric tons CO₂

Total greenhouse gas emissions (98.37 metric tons CO₂) for Marianne Strokirk Salon are equivalent to:

- CO₂ emissions from 11,166 gallons of gasoline
- CO₂ emissions from 229 barrels of oil
- CO₂ emissions from the electricity use of 13.6 homes for one year
- Carbon sequestered by 2,522 tree seedlings grown for 10 years
- Carbon sequestered annually by 0.69 acres of forest preserved from deforestation

Facility Carbon Footprint (electricity only):

Year: 2009			
	A*	B*	C
Facility / source description	Activity Data: Electricity, Heat, and/or Steam Purchase	CO ₂ emission factor	Indirect CO ₂ emissions in metric tons
			$C = A * B / 1,000,000$
	kWh	grams CO ₂ / kWh	metric tons CO ₂
Marianne Strokirk Salon	118922.00	705.80	83.94
Step 4: Sum CO ₂ emissions (in metric tons):			83.94

Employee Fuel Use

Year: 2009		Step 2.2b		Step 2.2c		Step 2.2d	
Step 2.2a	B	C	D	E	F	G	
A	Total car miles traveled in a week	Total car miles traveled in a year	Fuel economy (Miles per Gallons)	Quantity of fuel used (Gallons)	Number of occupants in the car	Fuel used per person (Gallons)	
TS	80.00	3600.00	28.00	128.57	1.00	128.57	
JC	0.00	0.00	n/a	n/a	n/a	0	
VD	64.00	2816.00	16.00	176.00	1.00	176.00	
KA	40.00	1840.00	20.00	92.00	1.00	92.00	
NR	0.00	0.00	n/a	n/a	n/a	0	
CB	0.00	0.00	n/a	n/a	n/a	0	
MZ	80.00	3680.00	20.00	184.00	1.00	184.00	
MO	250.00	11500.00	20.00	575.00	1.00	575.00	
SW	20.00	920.00	20.00	46.00	1.00	46.00	
JF	30.00	1380.00	20.00	69.00	1.00	69.00	
JW	30.00	1380.00	30.00	46.00	1.00	46.00	
PS	96.00	4358.40	28.00	155.66	1.00	155.66	
DB	36.00	1656.00	28.00	59.14	1.00	59.14	
KB	56.00	2576.00	27.00	95.41	1.00	95.41	
Step 2.2e: Total Fuel Used						1626.78	

Employee Carbon Footprint

Year: 2009							
	Step 3.1a			Step 3.1b		Step 3.1c	Step 3.1d
		A	B	C	D	E	F
Mode of Transport	Type of fuel used	Quantity of fuel used (annual)	Unit	CO ₂ emission factor	Unit	CO ₂ emissions in kg	CO ₂ emissions in metric tons
						E=AxC	F=E/1,000
Car	Gasoline/Petrol	1626.78	gallon	8.87	kg CO ₂ /gallon	14429.53	14.43
Step 3.1e: Sum CO ₂ Emissions						14.43	