

Carbon Emission

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Carbon footprint is the sum of all emissions of greenhouse gases like the carbon dioxide, which were induced by our activities in a given time frame.

Whenever we burn chemicals, carbon dioxide is released into the atmosphere. The extra carbon dioxide trapped under the earth's surface resulted in global warming. While the average global temperature is increasing, on a daily level the climate is changing in an unpredictable ways (from droughts, to hurricanes, and floods). To reduce the risk of even more extreme weather, we can do a part by reducing the amount of chemicals we are disposing/ burning.

With molecular formula of the chemical, obtaining the carbon dioxide figures is quite straightforward. There are many ways to calculate carbon emission. A simple method is shown below to calculate the carbon emission for fully combustion case.

Step 1: Determine the value of a, b and c for C_xH_y by using the following general equation



Step 2: Calculate the CO_2 emission by using the following formula

$$(\text{Total Weight of } C_xH_y \div \text{Molecular Weight of } C_xH_y) \times 44 * b$$

where Molecular Weight of $C_xH_y = (12 * x) + (y)$

Step 3: Calculate carbon emission by multiply the above CO_2 emission by 0.27

Note that carbon on its own is not a greenhouse gas, but often carbon dioxide is shortened to carbon for ease of reference, and this is the case with the carbon account.

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