



गुरु घासीदास विश्वविद्यालय बिलासपुर (छ.ग.)

GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (C.G.)

[A Central University Established by the Central Universities Act, 2009 No. 25 of 2009]
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SN-210/store/2023

Bilaspur Date- 31/7/2023

Declaration

Guru Ghasidas Vishwavidyalaya (A Central University) Bilaspur follows the sustainable procurement/purchasing policy of Central Government of India.

[Signature]
31/07/23

OSD (Store)

विशेष कर्तव्यस्थ अधिकारी (पंजाब)
गुरु घासीदास विश्वविद्यालय
बिलासपुर (छ.ग.)



Template for Evidence(s) UI GreenMetric Questionnaire

University : Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh
Country : India
Web Address : www.ggu.ac.in

[2] Energy and Climate Change (EC) UI Green Meric link for GGV Bilaspur: <https://greenmetric.ui.ac.id/rankings/overall-rankings-2022/ggu.ac.in>

[2.11] The Total Carbon Footprint (CO₂ emission in the last 12 months, in metric tons)

Option 2: Recommended by UI GreenMetric

CO₂ (electricity)

$$= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84$$
$$= \frac{1429004kWh}{1000} \times 0,84$$

= 1,200.36 metric tons

CO₂ (bus)

$$= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$$

$$= \frac{3 \times 6 \times 5 \times 240}{100} \times 0,01$$

= 2.61 metric tons

CO₂ (cars)

$$= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02$$

$$= \frac{425 \times 2 \times 5 \times 240}{100} \times 0,02$$

= 204 metric tons

CO₂ (motorcycle)

$$= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$$

$$= \frac{528 \times 2 \times 5 \times 240}{100} \times 0,01$$

= 126.72 metric tons

CO₂ (total)

$$= 1,200.36 + 2.61 + 204 + 126.72$$

$$= 1,533.69 \text{ metric tons}$$

Carbon footprint in 2022 = 1,533.69 metric tons

Total Carbon Footprint (UI GreenMetric) for Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh

Description:

In Guru Ghasidas University campus CO₂ produced from (electricity) is 1200.36 metric tons, by (bus) is 2.61 metric tons, by (cars) is 204 metric tons, by (motorcycle) is 126.72 metric tons. Total emission is 1533.69 metric tons per year. So, Carbon footprint in 2022 was 1533.69 metric tons in Guru Ghasidas Vishwavidyalaya campus.