# Target 8.4: Improve resource efficiency in consumption and production

UN definition: Improve progressively, through 2030, global resource efficiency in consumption and production and endeavor to decouple economic growth from environmental degradation, in accordance with the 10‑Year Framework of Programmes on Sustainable Consumption and Production, with developed countries taking the lead.

**SDG INDICATOR 8.4.1**

Material footprint

Definition: Indicator 8.4.1 is material footprint, material footprint per capita, and material footprint per GDP.

Material Footprint (MF) is the attribution of global material extraction to domestic final demand of a country. The total material footprint is the sum of the material footprint for biomass, fossil fuels, metal ores and non-metal ores.

Data on material footprints are outdated and unavailable for years following 2010.

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Material footprint per capita, 2000 to 2017

The total material footprint (MF) is the sum of the material footprint for biomass,

fossil fuels, metal ores and non-metal ores, measured in tons per person per

year.

Material footprint per unit of GDP, 2000 to 2017

Material Footprint (MF) is the attribution of global material extraction to domestic

final demand of a country. The total material footprint is the sum of the material

footprint for biomass, fossil fuels, metal ores and non-metal ores. This is measured

as kilograms of material per constant 2010 US$.

SDG INDICATOR 8.4.2

**Domestic material consumption**

Definition: Indicator 8.4.2 is domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP.

Material Footprint (MF) is the attribution of global material extraction to domestic final demand of a country. The total material footprint is the sum of the material footprint for biomass, fossil fuels, metal ores and non-metal ores.

Domestic Material Consumption (DMC) is a production-side measure which does not account for supply chain inputs or exports, meaning a country could have a lower DMC value if it outsources a large proportion of its materials. Data on material footprints are outdated and unavailable for years following 2010.

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**Sources**

12.2.2 - DOMESTIC MATERIAL CONSUMPTION PER CAPITA, BY TYPE OF RAW MATERIAL (TONNES) - EN\_MAT\_DOMCMPC - TOTAL OR NO BREAKDOWN

Variable time span 2000 – 2017

Data published by United Nations Statistics Division

Data publisher's source UN Office of Legal Affairs

Link https://unstats.un.org/sdgs/indicators/database/

Variable description: Domestic material consumption per capita, by type of raw material (tons)

Variable code: EN\_MAT\_DOMCMPC

Metadata available at: https://unstats.un.org/sdgs/metadata/files/Metadata-12-02-02.pdf

Detailed sources: Environment Live / Global Material Flows Database