

SDG Goal 8 Decent work and economic growth

SDG Target 8.4. Improve progressively, through 2030, global resource efficiency in consumption and production and endeavour 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 8.4.2 Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP

1. Name of data series	
Domestic material consumption (DMC) per capita	
Compliant with SDG metadata: yes	SDG Metadata

2. Definition of indicator
The indicator measures the amount of materials used in a national economy in metric tons and relates it to the domestic population. The amount of materials is calculated as the domestic extraction of raw materials from the environment plus imports of goods (raw materials, semi-finished and finished products) minus exports of goods. Imports and Exports of goods enter the indicator with their actual weight.
3. Comparison with SDG metadata (as of 12/02/2018)
The methodology applied coincides with the methodology mentioned in the SDG metadata.

4. Data description
<p>Data on domestic material consumption is calculated within the material flow accounting system run by the Environmental-Economic Accounts unit of the Federal Statistical Office. Data on domestic extraction of raw materials stems from various, mostly official, statistics and data sources. For imports and exports, data from foreign trade statistics is used.</p> <p>For the population data, the results of the latest population census (currently: 2011 Census) are used. Data on population are the results of the latest population census (currently: 2011 Census) rolled forward in a breakdown by sex, age, marital status and citizenship, using both statistics of population change (migration, births, deaths, entering into marriages or registered same-sex partnerships) and information on changes in citizenship and the dissolution of marriages or registered same-sex partnerships. Before 2011, updated census data from 1987 (Federal Republic of Germany) and the population register of October 1990 (German Democratic Republic) were used. For the years before 2011 the results for population were calculated backwards using the census 2011 and migration, birth and death statistics.</p> <p>For the calculation of DMC per capita, the average population of the respective year is used.</p>

5. Calculation method	
DMC = Domestic Extraction+Imports-Exports	
$\text{DMC per capita} = \frac{\text{DMC}}{\text{average population}}$	
6. Unit of measure	t per capita

7. Timeliness	8. Frequency
t + 2 years	Annual
9. Last regular revision	10. Revised period
Not applicable	Not applicable

11. Accessibility of source data
<p>DMC (Only available in German): https://www.destatis.de/DE/Themen/Gesellschaft-Umwelt/Umwelt/Materialfluesse-Energiefluesse/_inhalt.html, Gesamtwirtschaftliches Materialkonto, Tabelle 1</p> <p>Average population (Only available in German): https://www.destatis.de/DE/Themen/Wirtschaft/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt/_inhalt.html Fachserie 18 Reihe 1.4 - Table 2.1.13.</p>
12. Metadata on source data
<p>A methodological description for the calculation of the domestic extraction part of domestic material consumption is given in Germany's annual quality report for Eurostat available at: https://circabc.europa.eu/faces/jsp/extension/wai/navigation/container.jsp</p> <p>For the imports and exports contribution to the calculation of domestic material consumption see (Only available in German): https://www.destatis.de/DE/Themen/Gesellschaft-Umwelt/Umwelt/Materialfluesse-Energiefluesse/_inhalt.html</p> <p>The metadata on average population is included in the quality report for population estimates: https://www.destatis.de/DE/Themen/Wirtschaft/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt/_inhalt.html Fachserie 18 Reihe 1.4 - Table 2.1.13.</p>
13. Related SDG data series (duplicate indicators or sub-indicators to same indicator)
12.2.2 Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP

For more information please contact:
<https://www.destatis.de/EN/Service/Contact/Contact.html>

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SDG Indicator 8.4.2 Domestic material consumption, domestic material consumption per capita, and domestic material consumption per GDP

1. Name of data series	
Domestic material consumption (DMC) per real GDP	
Compliant with SDG metadata: yes	SDG Metadata
2. Definition of indicator	
The indicator measures the amount of materials used in a national economy in metric tons and relates it to real Gross Domestic Product (GDP). The amount of materials is calculated as the domestic extraction of raw materials from the environment plus imports of goods (raw materials, semi-finished and finished products) minus exports of goods. Imports and Exports of goods enter the indicator with their actual weight.	
3. Comparison with SDG metadata (as of 12/02/2018)	
The methodology applied coincides with the methodology mentioned in the SDG metadata.	
4. Data description	
Data on domestic material consumption is calculated within the material flow accounting system run by the Environmental-Economic Accounts unit of the Federal Statistical Office. Data on domestic extraction of raw materials stems from various, mostly official, statistics and data sources. For imports and exports, data from foreign trade statistics is used. The data on GDP is calculated by the Federal Statistical Office's National Accounts as a secondary statistic. GDP is adjusted based on a price base changing every year (previous year's price base). After several revisions due to new data input, final results are available four years after the first preliminary release.	
5. Calculation method	
$\text{DMC} = \text{Domestic Extraction} + \text{Imports} - \text{Exports}$ $\text{DMC per real GDP} = \frac{\frac{\text{DMC in metric t for current year}}{\text{DMC in metric t for 2010}}}{\text{real GDP as index with base year 2010}} \cdot 100$	
6. Unit of measure	Index 2010 = 100

7. Timeliness	8. Frequency
t + 2 years	Annual
9. Last regular revision	10. Revised period
Not applicable	Not applicable

11. Accessibility of source data
<p>DMC (Only available in German): https://www.destatis.de/DE/Themen/Gesellschaft-Umwelt/Umwelt/Materialfluesse-Energiefluesse/_inhalt.html, Gesamtwirtschaftliches Materialkonto, Tabelle 1</p> <p>GDP (only available in German): https://www.destatis.de/DE/Themen/Wirtschaft/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt/_inhalt.html</p>
12. Metadata on source data
<p>A methodological description for the calculation of the domestic extraction part of domestic material consumption is given in Germany's annual quality report for Eurostat available at: https://circabc.europa.eu/faces/jsp/extension/wai/navigation/container.jsp</p> <p>For the imports and exports contribution to the calculation of domestic material consumption see (Only available in German): https://www.destatis.de/DE/Themen/Gesellschaft-Umwelt/Umwelt/Materialfluesse-Energiefluesse/_inhalt.html</p> <p>The metadata on GDP is included in the publication mentioned above (Only available in German): https://www.destatis.de/DE/Themen/Wirtschaft/Volkswirtschaftliche-Gesamtrechnungen-Inlandsprodukt/_inhalt.html</p>
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Compliant with SDG metadata: yes	SDG Metadata

2. Definition of indicator
The indicator measures the amount of materials used in a national economy in metric tons. It is calculated as the domestic extraction of raw materials from the environment plus imports of goods (raw materials, semi-finished and finished products) minus exports of goods. Imports and Exports of goods enter the indicator with their actual weight.
3. Comparison with SDG metadata (as of 12/02/2018)
The methodology applied coincides with the methodology mentioned in the SDG metadata.

4. Data description	
Data on domestic material consumption is calculated within the material flow accounting system run by the Environmental-Economic Accounts unit of the Federal Statistical Office. Data on domestic extraction of raw materials stems from various, mostly official, statistics and data sources. For imports and exports, data from foreign trade statistics is used.	
5. Calculation method	
DMC = Domestic Extraction+Imports-Exports	
6. Unit of measure	Mn t

7. Timeliness	8. Frequency
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