Sustainable Consumption and Mobility

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Mobility and Sustainable Consumption

- Mobility is a daily consumption issue and a basic need.
- More than 70% of GHG in developed countries are caused by consumption decisions.
- Consumption decisions directly or indirectly determine working conditions, job creation, social welfare as well as the economic situation of people, companies, countries.
- Everybody is involved.
- Mobility is a major source of GHG emissions and resource use incl. biosystem services related to consumption.
Consumption Areas

Treibhausgas-Ausstoß (CO2-Äquivalente*) pro Kopf in Deutschland nach Konsumbereichen (2014)

- Öffentliche Emissionen: 10%
- Heizung: 17%
- Strom: 7%
- Mobilität: 23%
- Ernährung: 13%
- Sonstiger Konsum: 30%

Quelle: UBA CO2-Rechner (http://uba.klimaktiv-co2-rechner.de/de_DE/popup/)

* Emissionen anderer Treibhausgase als Kohlendioxid (CO₂) werden zur besseren Vergleichbarkeit entsprechend ihrem globalen Erwärmungspotenzial in CO₂ Äquivalente umgerechnet (CO₂ = 1).
Examples for GHG emissions related to tourism

Greenhouse gas emissions per person and trip

Kilogramme (kg) of carbon dioxide

- All inclusive-vacation Mexico: Airplane, 14 days, 7.218 kg pP
- Beach vacation Mallorca: Airplane, 14 days, 1.221 kg pP
- Mediterranean cruise: Airplane, 7 days, 1.224 kg pP
- Balkony (home): 14 days, 58 kg pP
# GHG Emissions of Modes of Transport

<table>
<thead>
<tr>
<th>Carrier</th>
<th>GHG gramm/ pkm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passenger car</td>
<td>139</td>
</tr>
<tr>
<td>Long distance coach</td>
<td>30</td>
</tr>
<tr>
<td>Long distance railway</td>
<td>43</td>
</tr>
<tr>
<td>Airplane</td>
<td>196</td>
</tr>
<tr>
<td>City bus</td>
<td>74</td>
</tr>
<tr>
<td>Metro</td>
<td>74</td>
</tr>
<tr>
<td>Local railway</td>
<td>72</td>
</tr>
</tbody>
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National Program on Sustainable Consumption

Adopted in February 2016 by the Federal Government

Guiding Principles

- Sustainable Consumption needs to evolve from **niche market into mainstream**
- Consumers have to be **empowered** to consume sustainably
- All parts of the **society** have to be involved and able to actively participate

Six Thematic Areas

- Mobility, Nutrition, Home and Living, Work and Office, Clothing, Tourism

Implementation

- Interministerial Working Group on sustainable consumption
- Competence Centre and Network for sustainable consumption
- Monitoring by 2 indicators in the Sustainable Development Strategy (Market share of sustainable products, GHG per capita for consumption)
Thematic Field Mobility

Relevance
• high

Barriers:
• Current lifestyles
• Availability of alternatives

Measures (examples mentioned in the program):
• Support climate friendly forms of mobility;
• Foster the interconnectedness of different forms of mobility;
• Facilitate short distances in daily life
• Reduce travel for work through provision of infrastructure for webinars, home office, etc.
Biking

Faster than any other transport means on distances below 4km
Use in urban areas mainly

- Promotional activities
  - Provision of safe bike lanes incl. fast bike lanes
  - Securing fast and smooth bike travel by bike-friendly steering of traffic lights
  - Support for simple rent-a-bike systems
  - Provision of safe bike parking spaces
  - Ensuring interconnectivity with public transport
  - Financial support for companies using freight bikes

- Reduction of attractiveness of individual car traffic
  - Reduction of parking spaces
  - Regulation of access to the city (city road tax etc.)
E-Mobility

Technology development needed (batteries etc.)

Promotional activities

• Short term
  • Provision of infrastructure for charging batteries (also in rural areas, also including fast chargers)
  • Provision of subsidies for buying e-cars
  • Introduction of tax advantages
  • Allowing use of bus lanes
  • Model role of public procurement

• Longer term
  • Provision of low-cost energy during non-peak times
  • Electric motorways
  • Streets with induction chargers
Flying

Highest GHG impact area for sustainable consumption
Global solutions preferable/necessary
Individual lifestyles significantly affected

Possible measures

• Offsetting with ambitious schemes
  • Model role of public procurement
  • Voluntary
  • Mandatory

• Financial measures to incentivize low emission air traffic

• Change of lifestyles leading to a reduction of private flights
Thank you

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