What is the carbon footprint of products (CFP)?··· •



You know about it, don't you? Carbon footprint of products (CFP) - its meaning, its significance.

All the products (goods and services) that we purchase and consume require large amounts of energy throughout their product life cycles - from the time they are made through to the time they are disposed of. That energy is obtained mainly from fossil fuels such as oil, coal and natural gases, and all of these release carbon dioxide (CO2) into the atmosphere, which is a cause of global warming.

The carbon footprint of a product is calculated by combining the total greenhouse gas (GHG) emissions emitted at each stage of the product's life cycle to find out its overall emissions, and then converting this figure into the equivalent amount of CO₂ emitted.

The point is to calculate emissions for the whole product life cycle!





N.B. All numerical values are hypothetical.

Carbon Footprint

• Background to the creation of CFP •



To gain the cooperation of as many people as possible in CO₂ reductions, the carbon footprint of products (CFP) was created.

In the Kyoto Protocol, Japan committed to reducing its domestic greenhouse gas (GHG) emissions by 6% of the 1990 level by the year 2012. As a concrete measure for achieving this target, discussions started towards the development of a carbon footprint mechanism that would "visualize" the CO₂ emissions of products.

The life cycle of products depends not just on the manufacturers but also on the many other operators involved at the stages of raw material acquisition, production, transport, use and maintenance, disposal and recycling. Furthermore, consumers are also involved in the stages of the use as well as disposal and recycle of products. CFP is a tool with the theme of products for getting both operators and consumers to think about reducing GHG emissions, and involving them in these efforts.

CFP is a "common scale" for enabling the visualization of CO_2 that is unseeable.





Residential sector:

As you can see, the CO₂ emissions from residential and commercial sectors are quite large. So not only operators, but consumers and society as a whole, need to play a part in reducing CO2 emissions.

19% 14% 000000 33% 3



Japan's CO₂ emissions by sectors



Source: Japan's National Greenhouse Gas Emissions for Fiscal Year 2009 (Final Figures) from the Ministry of the Enviro

Background

• How CFP is calculated



To visualize CO₂ emissions, we integrate CFP calculation methods.

CFP is calculated according to product category rules (PCR) that set the rules for these calculations in each product category.

PART 1

Moreover, by running checks on the calculation method with a committee of third-party experts, a system that secures fairness and reliability has been constructed.





PCR **Product category rule**



Let's expand CFP to the future



Carbon footprint labeling enables us to select products based on a new indicator, the "environment". Moreover, business operators too can use the label as an indicator of their environmental management and corporate social responsibility (CSR) efforts. By spreading and expanding the CFP concept even wider and deeper we can create a

Asia and Oceania.

of the ISO 14000 series.



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