

CARBON FOOTPRINT LABEL IN THAILAND



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Thailand Greenhouse Gas Management Organization

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“Carbon Footprint of Products” Project in Thailand



- TGO and MTEC launched the “Carbon Footprint of Products” Project in Thailand in 2009.
- Objectives:
 - To promote the use of a carbon footprint on Thai products; which in turn could increase the competitiveness of Thai industries in the world market.
 - To support the Thai industrial sectors in implementing the low carbon trend in Thailand.

Development Process



- Establish Carbon Footprint Technical Committee
- Select pilot companies
- CFP knowledge to pilot companies through training/seminar/workshop
- Collect data by questionnaires and site visit, and verify data
- Analyze carbon footprint of products
- Organize dissemination seminar

Achievements of Project



- In December 2009 and April 2010, TGO announces the results of its first phase where 22 producers in 42 products certified
- CFP certified products, e.g.,
 - T-shirt (100% cotton), Nylon yarn, Carpet, TULC can, Ceramic tiles, Paper, Paper container, Sterile food packaging, Copying machine, Air conditioner, PP cup
 - Coca Cola in can, Rice flour, Jasmine rice, Teriyaki chicken meat, Fresh chicken meat, Meat stick, Instant noodle, Canned tuna, Pineapple juice, Airline food, Chicken feed mill

Carbon Footprint Exhibitions on 25 Dec 2009, 9 April 2010



แนวทางการประเมิน คาร์บอนฟุตพริ้นท์ของผลิตภัณฑ์

ภายใต้โครงการส่งเสริมการใช้คาร์บอนฟุตพริ้นท์ของผลิตภัณฑ์



พิมพ์ครั้งที่ 2
(กันยายน 2553)

โดย คณะกรรมการเทคนิคด้านคาร์บอนฟุตพริ้นท์ของผลิตภัณฑ์

The National Guidance on Carbon Footprint Calculation for Products

- Scope
- Normative reference
- Terms and definitions
- B2B, B2C assessment
- GHG source, unit
 - GWP
 - Time period
 - Unit of analysis
 - Supporting data
 - Etc.
- Methodology framework
- Calculate method
- Number of carbon footprint
- Emission factor
- Etc.

Criteria of CFP LOGO

- Each product that applies for the carbon footprint logo is charged 14,500 THB as a registration, administrative cost, with an additional fee of 500 THB for the application form
- The certified product shall be eligible to use the CFP logo for 2 years.
- Both the guidelines and criteria for CFP label are available for a free download from the TGO website (www.tgo.or.th) since February 2010.

CFP LOGO : additional information

CFP Logo: color



COLORS

| | | | |
|--|--|--|--|
| | Pantone 485C C : 0 M : 93 Y : 94 K : 0 | | Pantone 142C C : 0 M : 30 Y : 72 K : 0 |
| | Pantone 639C C : 100 M : 15 Y : 15 K : 0 | | Pantone 297C C : 50 M : 0 Y : 5 K : 0 |
| | C : 30 M : 0 Y : 0 K : 0 | | C : 0 M : 0 Y : 0 K : 100 |

Example of Carbon Footprint communication

258 g ปริมาณการปล่อย
ก๊าซเรือนกระจก
จะลดลง
เหลือ 146 กรัม
หากนำบรรจุภัณฑ์นี้
ไปรีไซเคิล

258 kg

ร่วมกันรีไซเคิลบรรจุภัณฑ์ เพื่อลดโลกร้อน

คาร์บอนฟุตพริ้นท์ 268 กรัม คาร์บอนฟุตพริ้นท์ 146 กรัม

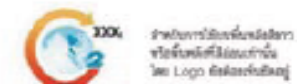
220 g

ผลิตภัณฑ์มีการปล่อย
ก๊าซเรือนกระจกมากที่สุดในช่วงการผลิต

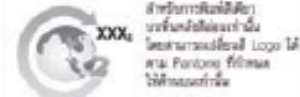
139 kg

รับประทานทั้งหมดลด
คาร์บอนฟุตพริ้นท์
ในการกำจัด
เศษอาหาร

Logo 4 สี



Logo 1 สี



Logo Solid Color



กรณีที่มีสีแทนไม่ได้ Gradient ได้
ใช้สี Solid ตาม Pantone ที่กำหนดให้
ใช้แทนเท่านั้น

CO₂ emission factor for CFP calculation

- National LCI database,
- Thesis and research which has peer reviews/publication,
- LCA software
- IPCC





CFP certified products

233 Products/ 68 Companies (30/09/54)



Responses from private sector



- ❑ Over 50 manufacturers are interested to apply for the CFP logo,
 - ❑ CFP requested by customer in other countries, e.g.,
 - Maltitol sweetener (B2B): a chewing gum company in USA
 - Natural starch (B2B) : food manufacturers in Japan
 - Copper rotors(B2B) : motor manufacturers in Japan
 - ❑ Increase in export competitiveness
 - ❑ Same product by other manufacturers has CFP certified
 - ❑ Corporate Social Responsibility

CFP registration process



Verification Sheet (1)

| | | | | |
|----------|------------------------|--------------------------------|------------------|--------------|
| 1 | Form | Details of the product. | Code Form | Fr-01 |
| | Document name | <i>Staff TGO.</i> | | |
| | Document number | <i>Staff TGO.</i> | | |
| | Company name | | | |
| | Product name | | | |

Note : To provide information related to the product e.g., functional unit, reference specifications, PCR etc.

Application for registration of a product

Image of products

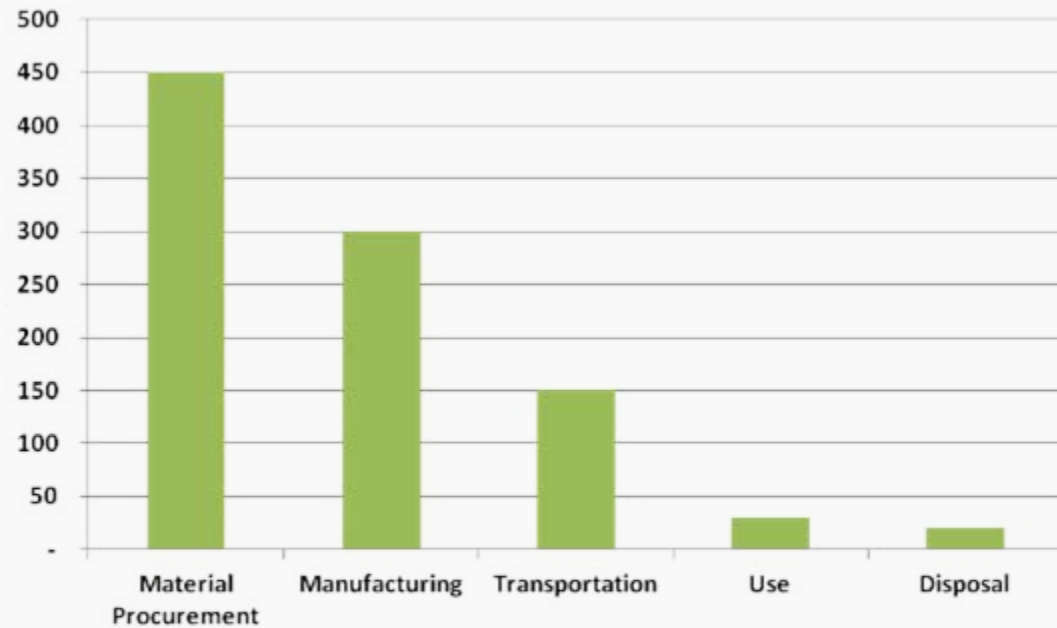
| | |
|-------------------------------------|--|
| Company name | |
| Address | |
| Product name and Model | |
| Production capacity per year | |
| Technical information | |
| Reference PCR | |
| Date for registration | |

Verification Sheet (2)

Carbon Footprint Number



GHG emissions of each life cycle stage



Current Situation



- 233 products from 68 companies have been certified (Sep, 2011)
- Responses from the market:
 - Currently are good, especially from exporting companies and companies in their supply chain (B2B)
 - Very low in demand-side due to lack of understanding from most Thai consumers

Thank you!

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