“Standardisation of calculation and declaration on energy consumptions and GHG emissions in transport services”

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April 12th 2011
Introduction

- My name: **Marc COTTIGNIES**
- My Department: **Transport & Mobility**
- My work in standardisation: **convenor of TC320/WG10**
  - TC320: “Transport – Logistics and Services”
  - WG10: “Energy consumption and GHG emissions in relation to transport services”
Content

- Standardisation process on-going
- Technical issues
- Draft for CEN Enquiry (pr EN 16258:2011)
- French legislation on-going
### Timeframe of WG10 work

**Drafting Stage**
- 6 months
- Circulation of the First Draft and Consensus building

**CMC Process - Translation**
- 5 months
- CEN Enquiry
- Finalization of Draft for submission to Formal Vote

**Formal Vote**
- 2 months
- Finalization and publication of Draft

**Definitive text available - DAV (60.60)**

**Schedule**
- **NWIP (10.99)**
  - Start of the work (20.20)
- **March 2009**
- **First Draft to CEN/TC 320 2009/10/08**
- **WG10 meetings**
- **Circulation of the First Draft (20.60)**
- **Task Group meetings**
- **Dispatch of Enquiry Draft to CMC (30.99)**
- **Submission to Enquiry (40.20)**
- **Closure of Enquiry (40.60)**
- **Dispatch of Formal Vote Draft to CMC (45.99)**
- **Submission to FV (50.20)**
- **Closure of VF (50.60)**
- **Definitive text available – DAV (60.60)**
- **December 2012**

- **CCNR workshop (Strasbourg)**
- **April 12th 2011**
- **prEN 16258**
WG10 Experts

- Around **70 members** registered
- **13 countries** represented: Bulgaria, Denmark, Finland, France, Germany, Greece, Italy, Netherlands, Norway, Spain, Sweden, Switzerland, United Kingdom
- Experts of **all modes**: road, rail, inland waterways, sea and air
- Representatives of **shippers** (freight)
CEN / TC320 / WG10 : scope

Common methodology for the calculation and declaration on energy consumption and greenhouse gas (GHG) emissions related to a transport service (of goods, passengers or both)
Main technical issues

- System boundaries
- Lifecycle approach?
- Calculation methods
- Use of default values
- Declarations
**System boundaries**

- **Focus on activities of transport vehicles**: handling in terminals by external transhipment devices are not included; platforms operations excluded also;
- The scope is **limited to the energy used by the transport device(s)** that fulfill(s) the transport service;
- **Infrastructure** and **vehicles or vessels construction**, exploitation and maintenance are **excluded**, for this first edition of the standard.
Well to wheel approach

- “wheel” = wheel, propeller, reactor ...
- A “well to wheel” approach is mandatory to provide consistency between different energy solutions:
  - Core process (“tank to wheel”): transport devices operations
  - Upstream process (“well to tank”): production and distribution of the energy used
Calculation principles

- Example of a container going from a factory in China to a warehouse in Strasbourg:
  - Identification of the different legs corresponding to each vehicle or vessel used;
  - Calculation for each leg;
  - Each leg is part of a “vehicles operations system” (example: round trip for the container ship);
  - Inclusion of empty trips;
  - Allocation rules;
  - Different levels of input data (measured values, company-specific values, default values).
Default values

- Rules:
  - Should be used only as a last resort;
  - Use under control (declaration required).

- Which values?
  - 1st option: g CO₂ per vehicle kilometre + load factors + percentage of empty trips;
  - 2nd option: g CO₂ per ton kilometre;
  - No table in the standard: not the right place!
Declarations

- Crucial clause, as many possibilities are left;
- Two parts in a declaration:
  - Results;
  - Additional information.
- A transparent description of the method shall be made available.
The Enquiry Draft - prEN 16258:2011

- Document named: prEN 16258:2011
- 55 pages which 9 main pages, supplemented by definitions and annexes:
  - Normative annex for energy and emissions factors (values to be worked again);
  - Informative annexes for examples.
Where to find the Enquiry Drafts?

- AFNOR website: www.enquetes-publiques.afnor.org
  → French and English versions
- BSI website: http://drafts.bsigroup.com
  → English version (on line soon)
- DIN website: www.entwuerfe.din.de
  → German version
French Legislation

- Article in law « Grenelle II » adopted in July 2010: an information on CO2 emissions will become mandatory for each transport service, sent to the beneficiary by the supplier;
- Date of enforcement: probably mid of 2013;
- Decrees and orders will be published in mid of 2011.
Thank you for your attention!

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