



**EUROPEAN COMMISSION**  
ENERGY AND TRANSPORT DIRECTORATE-GENERAL

New and Renewable Sources of Energy, Energy Efficiency & Innovation  
**Energy efficiency of products & Intelligent Energy - Europe**

Brussels, 8<sup>th</sup> September 2009  
**M/450 EN**

## **Mandate to CEN, CENELEC and ETSI for Standardisation in the field of measurements of no-load condition electric power consumption and average active efficiency of external power supplies**

### **1. BACKGROUND**

#### **1.1 Legal Basis of the mandate**

This mandate relates to Directive 2005/32/EC of the European Parliament and of the Council, to Council Directive 92/75/EEC, and to measures implementing these Directives, including Commission Regulation (EC) No 278/2009 of 6 April 2009, for which a harmonised standard should be developed to cover essential requirements.

#### **1.2 The aim of the Mandate**

Commission Regulation (EC) No 278/2009 requires that the measurement procedure for establishing the no-load electric power consumption and the average active efficiency of external power supplies shall be reliable, accurate and reproducible and takes into account the generally recognized state of the art measurement methods. The aims of this provision are to ensure comparable measurements and fair competition, and to facilitate market surveillance activities.

The aim of this mandate is to create a harmonised standard which covers this requirement.

### **2. DESCRIPTION OF THE MANDATED WORK**

The Commission requests CEN, CENELEC and ETSI to elaborate a reliable, accurate and reproducible standard for measuring the no-load power consumption and the average active efficiency of external power supplies, which takes into account the generally recognised state of the art measurement methods, and/or adopt or adapt existing European/International standards or internationally recognised measurement methods meeting these requirements. The standard has to be applicable at least to all external power supplies which are used for electrical and electronic household and office equipment.

The standardisation tasks covered by this mandate are as follows.

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## Procedures and methods for measuring the no-load power consumption and average active efficiency of external power supplies

- It has to be ensured that the prospective harmonised standard provides accurate, reliable and reproducible procedures and methods, which take into account the generally recognised state of the art measurement methods, to measure the no-load power consumption and the average active efficiency of external power supplies, as required for the conformity assessment and market surveillance activities pursuant to Commission Regulation (EC) No 278/2009.
- It has to be ensured that procedures and methods for measuring power consumption in no-load power consumption and average active efficiency identify and control the sources of measurement variability linked to testing conditions in laboratories.

### Verification procedure for market surveillance purposes:

- It has to be ensured that the prospective harmonised standard states and controls the sources of variability to be considered for market surveillance purposes.
- Values for measurement uncertainties should be provided for the purposes of the verification procedure for no-load condition electric power consumption and active average efficiency, taking into account the different sources of variability to be considered when a specific product is taken from the market and measured for market surveillance purposes.
- To ensure the verification procedure is as uncomplicated and easily reproducible as possible.
- It should be verified if the standard(s) should include specific criteria to be met by laboratories involved in the verification of the declared data (e.g. quality management system, qualification system, personnel training...), in order to reduce the impact of variability to the system.

### Template for test report:

- A template for a test report should be defined, indicating the information to be declared by the manufacturers to fulfill at least the ecodesign requirements set out by Commission Regulation (EC) No 278/2009.

### **3. EXECUTION OF THE MANDATE**

CEN, CENELEC and ETSI are requested to communicate to the Commission, within 2 month of the acceptance of this mandate, a work plan for the execution of the above mentioned standardisation tasks.

CEN, CENELEC and ETSI are requested to communicate to the Commission after 7 months from the acceptance of this mandate an interim report on the progress of the tasks set out in this mandate, indicating any eventual difficulties encountered and communicating details of any Standard(s) that has been taken into consideration and

modified to answer to the needs of the Mandate.

CEN, CENELEC and ETSI are requested to provide, in the three working languages of the ESOs, a copy of the standards developed under this mandate within 12 months of the acceptance of the mandate.

CEN, CENELEC and ETSI are requested to forward the titles of the standards developed or adapted under this mandate in all the official languages of the European Union.

CEN, CENELEC and ETSI are requested to draw up the work plan and execute the above mentioned tasks in close cooperation in order to ensure consistency and avoid overlapping standards.

Wherever possible the tasks should be executed within the framework of the Vienna and Dresden Agreements with a view to duly take into consideration the activities already done or in process at international level.

CEN, CENELEC and ETSI are requested to indicate the relationship between the clauses of the standard and the essential requirements covered.

Acceptance by CEN, CENELEC and ETSI, as applicable, of this mandate starts the standstill period referred to in Article 7 of the Directive 98/34/EC of 22 June 1998 (Of N° L 204/37 of 21 July 1998).

## **5. BODIES TO BE ASSOCIATED**

As appropriate, CEN, CENELEC and ETSI will invite the representative organizations of consumers' interests (ANEC), environmental protection (ECOS), workers (ETUIREHS) and small and medium-size enterprises (NORMAPME) as well as representatives of market surveillance bodies of Member States to take part in the standardisation work.