



**EUROPEAN COMMISSION**  
DIRECTORATE-GENERAL FOR ENERGY

Directorate C - New and renewable sources of energy, Energy efficiency & Innovation  
**C.3 - Energy efficiency of products & Intelligent Energy – Europe**

Brussels, 21 October 2011  
**M/498 EN**

**MANDATE TO CEN, CENELEC AND ETSI FOR STANDARDISATION  
IN THE FIELD OF PUMPS**

**1. BACKGROUND**

**1.1. Legal Basis of the mandate**

This mandate relates to Directive 2009/125/EC of the European Parliament and of the Council and to measures implementing this Directive for which a Harmonised Standard should be developed to cover essential requirements.

**1.2. The aim of the Mandate**

The Regulatory Committee established by Directive 2009/125/EC is expected to endorse in 2011 a Draft Commission Regulation implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for pumps. The draft implementing measure requires that the measurement and calculation procedures for establishing an efficiency measurement method, hydraulic power, power consumption and other parameters of pumps shall be reliable, accurate and reproducible and take into account the generally recognised state of the art, in order to ensure comparable measurements and calculations of energy efficiency for the pump types in the scope of the implementing measure, and to facilitate market surveillance activities.

The aim of this mandate is to create a harmonised standard which covers these requirements in the first phase and an extended product approach in the second phase.

**2. DESCRIPTION OF THE MANDATED WORK**

The Commission requests CEN, CENELEC and ETSI to elaborate a reliable, accurate and reproducible standard, which takes into account the generally recognised state of the art, and/or adopt or adapt existing European and international standards for pumps, laying down procedures and methods of measuring and calculating the energy efficiency, power consumption and associated characteristics of pumps. The standard has also to include the necessary definitions of the appliance types and of the parameters to be measured and/or calculated.

The standardisation work requested must be performed in collaboration with other relevant standardisation processes, such as on motors, variable speed drives or pumps, in

particular in collaboration with CLC TC 22 X WG6, in particular as to the second phase of extended product efficiency.

The standardisation tasks covered by this mandate are as follows.

Procedures and methods for measuring and calculating the efficiency, power consumption and associated characteristics:

- (1) to ensure that the prospective harmonised standard(s) provides, where appropriate, revised and/or new definitions for at least the pump types and main characteristics, and the parameters to be included in the 'Draft Commission Regulation implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for pumps';
- (2) to ensure that the prospective harmonised standard(s) provides procedures and methods to measure and calculate at least the efficiency and power consumption of pumps;
- (3) to ensure that the prospective harmonised standard(s) includes a procedure that avoids an appliance being programmed to recognize the test conditions, and reacting specifically to them;
- (4) to ensure that the prospective harmonised standard(s) takes into account improved test conditions, test materials and new appliance types to better reflect the user behaviour and the state of the art at European and international level. In particular care shall be taken about single stage end suction water pumps (ESOB, ESCC and ESCCi), vertical multistage (MS) water pumps in the power range up to 150kW and submersible multistage (MSS) pumps with nominal size 4" and 6" in the power range up to 40 kW;
- (5) the extension of the standard(s) to include tolerances;
- (6) to ensure that in the prospective harmonised standard(s) takes into due account the definitions and parameters needed to fulfil the scope of the foreseen 'Draft Commission Regulation implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for pumps.

Verification procedure for market surveillance purposes:

- to ensure that the prospective harmonised standard(s) identifies and controls the sources of variability to be considered for market surveillance purposes;
- to provide values for measurement uncertainties for the purposes of the verification procedure for the measured parameters 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 verify if, in order to reduce the impact of variability to the system, 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...)

### Template for test report:

- to define a template for a test report indicating the information to be declared by the manufacturers to fulfil at least the ecodesign requirements set out by Draft Commission Regulation implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for pumps.

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

CEN, CENELEC and ETSI are requested to communicate to the Commission, within 9 months of the acceptance of this mandate, a work plan for the execution of the above mentioned standardisation tasks, indicating the standard(s) requiring revision or amendment, and the new standard(s) that would need to be developed, if any.

CEN, CENELEC and ETSI are requested to communicate to the Commission after 15 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 working languages of the ESOs, a copy of the standard(s) developed under this mandate within 20 months of the acceptance of the mandate for the first phase delivery.

CEN, CENELEC and ETSI are requested to provide, in the working languages of the ESOs, a copy of the standard(s) developed under this mandate within 36 months of the acceptance of the mandate for the second phase delivery with extended product approach.

CEN, CENELEC and ETSI are requested to forward the titles of the standard(s) 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).

### **4. BODIES TO BE ASSOCIATED**

As appropriate, CEN, CENELEC and ETSI will invite the representative organisations of consumers' interests (ANEC), environmental protection (ECOS), workers (ETUI) and

small and medium-size enterprises (NORMAPME) to take part in the standardisation work.

CEN, CENELEC and ETSI are also requested to consult with the European Commission Directorate-General Joint Research Centre in order to explore if the Commission's research institutes dispose of specific competence to support the standardisation work.