

Paper Title: **CEN-CLC Standardization on Material Efficiency for Circular Economy**  
CEMEP Topic: to be considered by CEMEP team for the 2<sup>nd</sup> day's conferences  
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## Abstract:

The European standardization organisations (CEN, CENELEC & ETSI) agreed on the request from the European Commission for drafting a series of horizontal and generic standards in the field of Material Efficiency aspects supporting the Circular Economy. This paper will describe the EU regulation context, the CEN-CENELEC standardization structure and membership, the organization setup for managing the work already started. It will describe the objectives of the 10-standard series that will be possibly for direct use by manufacturers or by CEN-CLC product Committees in charge of drafting product oriented standards as regards requirements from the EU Ecodesign Directive.

A summary of the expected requirements issued from these draft documents will be presented for the different topics developed for the Material Efficiency. In addition to the agreed common definitions and guidelines, the material efficiency aspects of Energy related Products, that will apply to CEMEP equipment and systems, are: the durability, the ability to re-manufacture, the ability to repair, upgrade and reuse, the recyclability and recoverability, the proportion of re-used components and recycled material, the declaration of critical raw materials, the information provided to the users of Energy related Products.

These standards are drafted by about 300 experts issued from companies and organizations mainly involved in the "business to customer" market environment. In order to better consider the needs and constraints of our CEMEP "business to business" market area, this paper will also suggest topics and related constraints that should be supported by CEMEP experts and companies as well as by experts from companies implementing CEMEP products and systems in their own equipment, machinery, systems and installation. All should take benefit of the remaining time before these standards, that will have a significant impact on our business, would be published.

Then, some information would be provided for helping industries and organizations to discuss and prepare inputs that could be implemented in specific CEMEP product oriented Material Efficiency standards that would be derived from the current standardization work in process. The objective for the CEMEP motors and power electronic systems (PDS, UPS) would be to adapt requirements from the different Material Efficiency topics in order to guaranty, to maintain and to develop some already well established circular economy processes and initiatives, as well as to anticipate possible new rules for the design, production, use phase, end-of-life activities and related new services for our industries.