

**SMB/SG 1 Energy Efficiency and renewable resources**

**Draft Recommendations from 4th SG 1 meeting**

Area	Priority	Recommendation	Who, Lead	Remarks
Household appliances	1	<p><b>SG 1 Recommendation 13:</b></p> <p>TC 59 and its SCs to develop/update International Standards on measurement procedures required to define energy efficiency classes of electrical household appliances. The relevant evaluation methods shall take into account a realistic simulation of the actual use of each type of appliance.</p>	TC 59 + SCs	
Household appliances		<p><b>SG 1 Recommendation 14:</b></p> <p>TC 59 and its SCs to develop a harmonized international system of energy consumption classes including a labelling scheme to determine the energy consumption/energy efficiency of household appliances, taking into account the existing regional and national standards in this field.</p>	TC 59 + SCs	
Household appliances		<p><b>SG 1 Recommendation 15a:</b></p> <p>TC 59 and its SCs to take into account both stand-by losses and off-mode losses in their product standards.</p>	TC 59 + SCs	Note: Definition of stand-by and off-mode losses, as well as measurement techniques, need to be harmonized throughout IEC/TCs.
Household appliances, consumer products, IT products		<p><b>SG 1 Recommendation 15b:</b></p> <p>TC 96 "Small power transformers, reactors, power supply units and similar products" to take into account stand-by operation and energy efficiency of power supplies in their standardization activities.</p>	TC 96	

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Smart house		<p><b>SG 1 Recommendation 16:</b></p> <p>To develop a systematic approach for the design and evaluation of energy efficiency in networked systems used in homes and buildings.</p> <p>ISO/IEC JTC 1/SC 25 to</p> <ul style="list-style-type: none"> <li>- consider the revision of ISO/IEC TR 15067-3, which provides a model of an energy management system for home electronic systems,</li> <li>- consider the development of guidelines to improve energy efficiency with help of co-operation between different product groups,</li> <li>- consider the development of an international standard that lists information that supports energy efficiency when conveyed from one product (group) to another product (group).</li> </ul>	<p>ISO/IEC JTC 1/SC 25, TC 23, TC 34, TC 59, TC 100, ISO/TC 205</p>	<p>Such activities shall be undertaken by ISO/IEC/JTC 1/SC 25 in close cooperation with IEC/TC 23, IEC/TC 34, IEC/TC 59, IEC/TC 100 and ISO/TC 205.</p>
IT equipment, consumer electronics		<p><b>SG 1 Recommendation 17:</b></p> <p>TC 100 and TC 108 to develop/update International Standards on measurement procedures for IT equipment and consumer electronics shall be established (or revised, as appropriate), which are the basis for establishing energy consumption/ energy efficiency classes.</p>	<p>TC 100, TC 108</p>	

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IT equipment, consumer electronics		<p><b>SG 1 Recommendation 18:</b></p> <p>TC 100 and TC 108 to develop a harmonized international system of energy consumption classes including a labelling scheme to determine the energy consumption/ energy efficiency of consumer electronic products, such as TV sets, set-top boxes, cable modems, DSL routers etc.</p>	TC 100, TC 108	
IT equipment, consumer electronics		<p><b>SG 1 Recommendation 15c:</b></p> <p>TC 100 and TC 108 to take into account both stand-by losses and off-mode losses in their product standards. This requires external power supplies (AC/DC converters) to be considered as integral parts of the pertinent appliances. For true zero stand-by and off-mode losses, the power supply shall be completely disconnected from the mains power by appropriate means.</p>	TC 100, TC 108	
Smart grid	1	<p><b>SG 1 Recommendation 19:</b></p> <p>IEC to organize a Workshop on the topic of “Advanced supply and demand site balance in electrical grids” in order to inform on the state-of-the-art in standardization and to further propose concrete new standardization activities. This covers the integration of renewable energy sources into existing grids as well as techniques aiming at the optimization of electricity supply versus electricity demand.</p>	TC 8, TC 57	Primarily concerned IEC/TCs are TC 8 “System aspects of electrical energy supply” and TC 57 “Power systems management and associated information exchange”.