

A person wearing a light-colored lab coat and glasses is shown in profile, looking intently at a clear, cylindrical light bulb they are holding. The background is a laboratory or workshop with several other light bulbs hanging from the ceiling and some equipment visible. The lighting is warm and focused on the person and the bulb they are holding.

4PEET

Changes in MEPS & Test Methods: January 2018 - June 2019










JANUARY 2021

Product Energy Efficiency Trends -
A project of the Energy Efficient End-use Equipment TCP

Changes in energy efficiency policy settings for appliances and equipment, Jan 2018–July 2019

Table 1 shows how MEPS or Top Runner (in Japan) requirements for the product types covered in this analysis changed in the period from January 1st 2018 to June 30th 2019 for each 4E economy. This indicates if new energy performance limits came into force in this period, or in the case of the Top Runner programme if the period coincides with a specified Top Runner Target Year. Where there are currently No MEPS or Top Runner requirements at all, this is also indicated.

Table 1: Evolution in MEPS or Top Runner from January 1st 2018 to June 30th 2019

Economy	Australia	Canada	China	EU	Japan	Korea	Switzerland	USA
 Air conditioners	No change	No change	No change	No change	No change	No change	No change	No change
 Desk top computers	No change	No MEPS	No change	No change	No change	No MEPS	No change	No MEPS
 Distribution transformers	No change	No MEPS ¹	No change	No change	No change	No change	No change	No change
 Domestic cold appliances	No change	No change	No change	No change	No change	Updated	No change	No change
 Electric motors	No change	No change	No change	No change	No change	Updated	No change	No change
 LEDs	No MEPS	No MEPS	No change	Updated	No change	New	Updated	No change
 Televisions	No change	No change	No change	No change	No change	Updated	No change	No MEPS
 Washing machines	No MEPS	Updated	No change	No change	No TR ²	No change	No change	Updated
 Water heaters (electric storage)	No change	No change	No change	Updated	No change	No MEPS	Updated	No change










¹ no MEPS for liquid cooled transformers

² TR = Top Runner requirements

Changes in energy efficiency test methods for appliances and equipment, Jan 2018–July 2019

Table 2 shows the same information for the energy performance test procedures which apply for the products and regulations set out in Table 1. From this it is apparent that in this period energy performance test procedures have changed for air conditioners and LEDs sold in Korea and for washing machines sold in China..

Table 2: Evolution in test procedures from January 1st 2018 to June 30th 2019

Economy	Australia	Canada	China	EU	Japan	Korea	Switzerland	USA
 Air conditioners	No change	No change	No change	No change	No change	KS C 9306:2017	No change	No change
 Desk top computers	No change	No change	No change	No change	No change	No change	No change	No change
 Distribution transformers	No change	NA	No change	No change	No change	No change	No change	NA
 Domestic cold appliances	No change	No change	No change	No change	No change	No change	No change	No change
 Electric motors	No change	No change	No change	No change	No change	No change	No change	No change
 LEDs	No change	NA	No change	No change	No change	KS C 7651 KS C 7652	No change	NA
 Televisions	No change	NA	No change	No change	No change	No change	No change	NA
 Washing machines	No change	No change	GB/T 4288 Oct 2018	No change	NA	No change	No change	No change
 Water heaters (electric storage)	No change	No change	No change	No change	No change	NA	No change	No change

NA = not applicable as there are no MEPS or Top Runner requirements

The two new Korean standards for LEDs are used for new MEPS and hence have no implications when compared to previous levels. In the case of air conditioners KS C 9306:2017 appears to only entail minor changes to the previous standard and does not significantly affect the comparison of requirements.