

Terms of Reference for a PPR for Televisions Expert

Date	12 February 2018
Service required	Comparative Analysis of International Energy Efficiency Standards for TV sets and Recommendations for the Philippines Standards and Labelling Programme
Donor	European Union (EU)
Programme Beneficiary	Department of Energy
Contracting Agency	GIZ – Deutsche Gesellschaft für Internationale Zusammenarbeit mbH
Work day inputs and duration of assignment	25 days over a period of 3 months
Location of assignment	Mainly home-based

DESCRIPTION OF THE SPECIFIC ASSIGNMENT

The expert will evaluate and compare the content of energy efficiency standards and labelling schemes for TV sets from various jurisdictions (at least 7) which are not older than 5 years and already reflect new technological innovations, such as ultra-high definitions, bidirectional internet connectivity and OLED displays. The examples should preferably come from established markets in the region with developed Standards and Labelling programmes, but can also include other relevant model cases. Based on the analysis, the expert will develop recommendations how the existing draft PPR for television sets can be improved in conformity with existing market and technological trends.

Under supervision by the ASEP Work Package Manager for Energy Efficiency and the Energy Efficiency Team of ASEP, the expert will conduct a comparison of international energy efficiency standards and rating schemes for TV sets as described below.

1. Investigate through internet research, contact to governments, national energy agencies; industry associations or other stakeholders which national or regional energy efficiency standards and labelling/rating schemes for TV sets are most suitable to be included in a comparative analysis. The following countries or regions should be included in any case: India, China, Singapore, EU, USA, Australia/New Zealand. Regulations for such standards should be of recent date and reflect latest technological developments.
2. Conduct a comparative analysis of different energy efficiency standards and labelling regulations for TV sets. This analysis should in particular focus on the following aspects and questions:
 - a) Definition of the equipment targeted by the regulation (e.g. only TV sets with tuners or also Home Theatre Displays without tuner)
 - b) Definition of equipment that is specifically excluded (e.g. battery-run TV sets, TV monitors without tuner or devices with rear or front projection)
 - c) Operational modes which are being considered but are not required for basic operation of the device (e.g. internet/network connectivity)
 - d) How are functions being considered which are not essential for the operation of the device
 - e) Do other energy performance standards apply to Ultra High Definition Televisions
 - f) Testing methods to be applied

- g) How are the rating levels defined and how often are they being adjusted to reflect new technological trends and increased energy efficiencies?
3. Provide recommendations for Minimum Energy Efficiency levels for different types, sizes and functionalities of television sets or an equivalent formula to be incorporated in the PPR for television sets, including proposals for efficiency levels as basis for the introduction of a rating and labelling scheme.

Minimum thresholds for efficiency should be set in such manner that about 20% of all models in each segment will be banned from the market due to insufficient performance. Furthermore, only few models should fall into the highest rating category to allow for sufficient market shift and product improvements towards higher efficient models in the future.

Furthermore, provide recommendations if current testing procedures need to be changed, adjusted or extended.

The expert is expected to submit three reports (two (2) interim and a final report) for review by ASEP and DOE. The most important findings should be presented to ASEP and DOE after each interim report has been completed.

Moreover, the expert will present the final results in a meeting to ASEP, DOE and the Technical Working Group on PPRs for television sets.