



Country report :

Rep Korea

Kesco
31-12-2023

Questionnaire to estimate the level (%) of the Safety of Users of Electricity in Dwellings in Countries

The Electrical Safety Barometer consists of 13 essential criteria. Each of these criteria has a weighting factor to enable the calculation of a general score for each country. Both FISUEL and world experts endorse these criteria and the weighting factors. With the assistance of local experts, we are applying the barometer in an increasing number of countries.

Explanation of the 13 major criteria go to -->

<https://www.safetybarometer.org/criteria/>

Enter a number of the following criteria (1, 2, 3 or 4) in the yellow cells "column criteria"

- 4 = Fulfilled Criteria : existing criteria in your country (score 100%)
- 3 = Partially fulfilled Criteria : part of the criteria existing in your country (score 50%)
- 2 = Not met Criteria : criteria known but unapplied (score 10%)
- 1 = Unknown Criteria : criteria inexistent (score 0%)

| | | | | | | |
|--------------------|---------------|---------------|---------------|-------------|--|---|
| Number of criteria | 4 - Fulfilled | 3 - Partially | 2 - Unapplied | 1 - Unknown | | Level of Electrical Safety in Dwellings |
| | 11 | 2 | 0 | 0 | | 90% |

| Criteria | Question | Weight | Criteria | Score |
|---|--|--------|----------|-------|
| Standards & rules | Are standards and rules in place? | 10 | 4 | 10% |
| Comments : Yes, Rep. of Korea follows KSCIEC 60364 which is Korean version of IEC60364, and the Electrical Safety Management Act takes effect since 2021 | | | | |
| Initial verification | Is an initial inspection required? | 10 | 4 | 10% |
| Comments : Absolutely, KESCO performs the initial inspection(check or inspection pre-use) according to the Electrical Safety Management | | | | |
| Periodic inspection | Is a periodic inspection required? | 7,5 | 4 | 8% |
| Comments : Absolutely, KESCO performs the periodic inspection or check according to the Electrical Safety Management Act | | | | |
| Inspection report | Must there be proof of the inspection by the delivery of an inspection report? | 5 | 4 | 5% |
| Comments : Yes, KESCO should deliver the inspection report to its user after the completion of inspection, and it should be graded by its safety level | | | | |
| Inspection for existing installations | Is there a mechanism for inspection of existing installations? | 10 | 4 | 10% |
| Comments : According to the Electrical Safety Management Act, existing installations over 75kW have to be inspected every 2 ~ 4 years by its capacity, below 75kW, installations have to be checked every 1 ~ 3 years by its usage | | | | |
| Inspector | Must the person carrying out the inspection be a qualified inspector? | 7,5 | 4 | 8% |
| Comments : Inspector is regulated by the Electrical Safety Management Act with certification and experience | | | | |
| Electrical contractor or installer | Must the electrical contractor or installer be a qualified person? | 5 | 4 | 5% |
| Comments : Yes, Electrical contractors or installers are also be regulated by the Electrical Construction Business Act with certification | | | | |
| Role of utilities | Does the electric utility only connect the installation after having received a positive inspection report? | 10 | 4 | 10% |
| Comments : Yes, All installations should be supplied the electricity after the delivery of its positive inspection or check report | | | | |
| Consumer education | Are consumers educated on the dangers of electricity? | 5 | 4 | 5% |
| Comments : Yes, Education and Commercial are carried on various users(Kids, Engineers and General Users,. Etc.) by the government & | | | | |
| Regulation | Is regulation in place that imposes standards for electrical installations and initial verification? | 5 | 4 | 5% |
| Comments : Yes, There is KS(Korean Standards) for electrical installations, to make it checked, there is standards for initial inspection or check so-called KESC | | | | |
| Labelling and certification | Are products in the market adequately labeled for electrical safety, and is this labeling system understood? | 5 | 3 | 3% |
| Comments : All electrical products should get safety certifications by authorized entities according to the Electrical Appliances & Consumer Products Safety Act | | | | |
| Role of manufacturers | Do manufacturers actively engage for electrical safety in the marketplace? | 5 | 4 | 5% |
| Comments : While All electrical products should get safety certifications by authorized entities according to the Electrical Appliances & Consumer Products Safety Act, Manufacturers recall problematic products following government order | | | | |

| | | | | |
|---|---|----|---|----|
| Market surveillance | Is there adequate action on market surveillance from the authorities? | 15 | 3 | 8% |
| Comments : If there are electrical problem with products, KESCO is ordered by the MOTIE(Ministry of Trade, Industry & Energy) to research & investigate its causes | | | | |

Confidentiel

www.fisuel.org

| | critères | Rep Korea |
|----|--------------------|-----------|
| 1 | Standards & ru | 4 |
| 2 | Initial verificati | 4 |
| 3 | Periodic inspec | 4 |
| 4 | Inspection repc | 4 |
| 5 | Inspection for € | 4 |
| 6 | Inspector | 4 |
| 7 | Electrical contr | 4 |
| 8 | Role of utilities | 4 |
| 9 | Consumer educ | 4 |
| 10 | Regulation | 4 |
| 11 | Labelling and c | 3 |
| 12 | Role of manufa | 4 |
| 13 | Market surveill | 3 |

