Electrical Safety Cooperation

Republic of KOREA & ASEAN

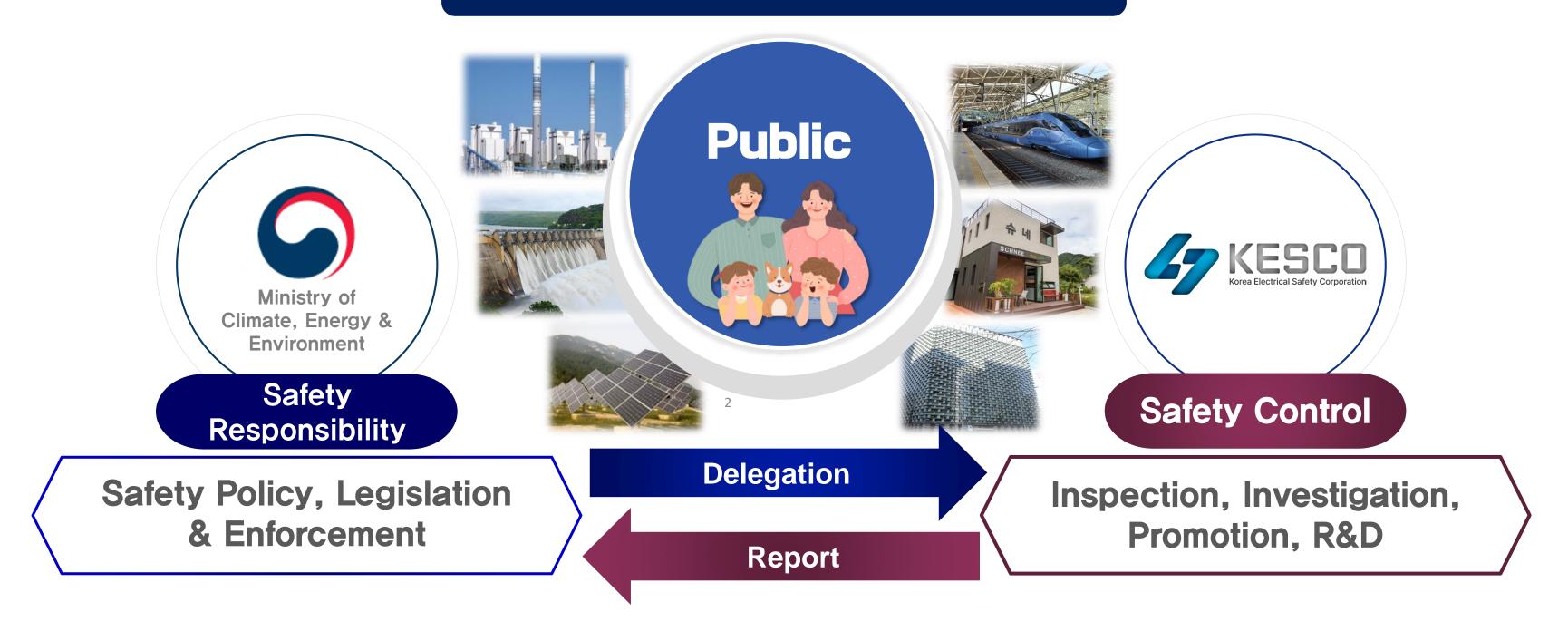
OCT. 2025



Electrical Safety in Korea



Electrical Safety in Korea



MOCEE & KESCO is Protecting People & Properties from Electrical Disasters

Electrical Safety Cooperation Korea - ASEAN



Promotion Action



Building the Safe ASEAN Community from Electrical Disasters



Prime Objectives & Contents

1. Raising Awareness of Electrical Safety

1. OBJECTIVE

- 2. Establishing the Electrical Safety Management System
- 3. Forming the Cooperation Network to Improve Electrical Safety



1. Capacity Building for ASEAN Officials in field of Electrical Safety

2. CONTENTS

- 2. Knowledge Sharing & Demonstrating the Digital-Inspection
- 3. International Co-R&D with ASEAN Partners & Institutes



Capacity Building

(2024) Capacity Building for Electrical Safety of R.E Facilities

"Invitation Program" for 13 ASEAN Officials from 8 Countries & ASEAN Centre for Energy (July, '24)

Invitation

- Lecture
- Electrical Safety Mgmt. Policy
- Electrical Safety Infrastructure
- Excursion
 - Electrical Safety Infrastructure
 - Local Hydrogen Fuel-Cell Factory













Raising Awareness of Electrical Safety by Capacity Building Program



Capacity Building

(2024) Capacity Building for Electrical Safety of R.E Facilities

"On-Site Consultation" in Indonesia and Cambodia (Dec, '24)













On-site Consultation

- Workshop
- Best Practices for Safety Mgmt.
- Q&A and Discussion
- On-Site Consultation
- Diagnosing R.E Facilities
- Providing and Sharing Knowhow

Suggesting the Best Practices to Manage Electrical Facilities Safely



Knowledge Sharing

(2025) Demonstrating "On-line Inspection System"

- Demonstrating "Online Inspection" for High Voltage Substations in Sabah, Malaysia
 - Collaborating with KESCO, Hyosung Heavy Industry(Korea), Sabah Electricity(Malaysia)



- Digital Inspection in Korean Standards
- Providing Best Practices and Policies



- Implementing Digital Censors & Platform
- Finding Faults and Suggesting Solutions



Sabah Electricity

Collaborating with Public - Civil and Local Partners to Build the Digital Mgmt. System



Knowledge Sharing

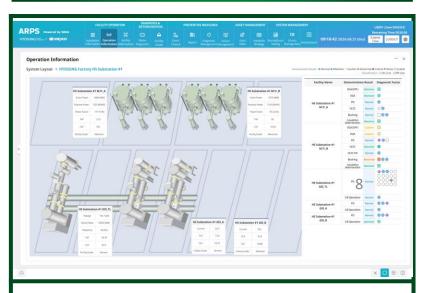
(2025) Demonstrating "On-line Inspection System"

Introduction (Feb)



- Introducing the Concepts& Contents of Project
- Pre-Site Survey

Implementation (Jul)



- Setting Digital Censors and Platform in Substations
- Analyzing & Inspection

Invitation (Sep)



 Electrical Safety Infra & Factories in Korea

Final Report (Sep.29)



- Inspection Evaluation
- Project Report

Win-Win Practice in Electrical Safety Management by Digital Transition



International Co-R&D

(2025) BESS Safety Workshop

- "International Workshop for BESS* Safety" between KESCO Research Institute and BRIN
 - Sharing Research Results and BESS Industry Information of Korea and Indonesia





* BESS: Battery Energy Storage System



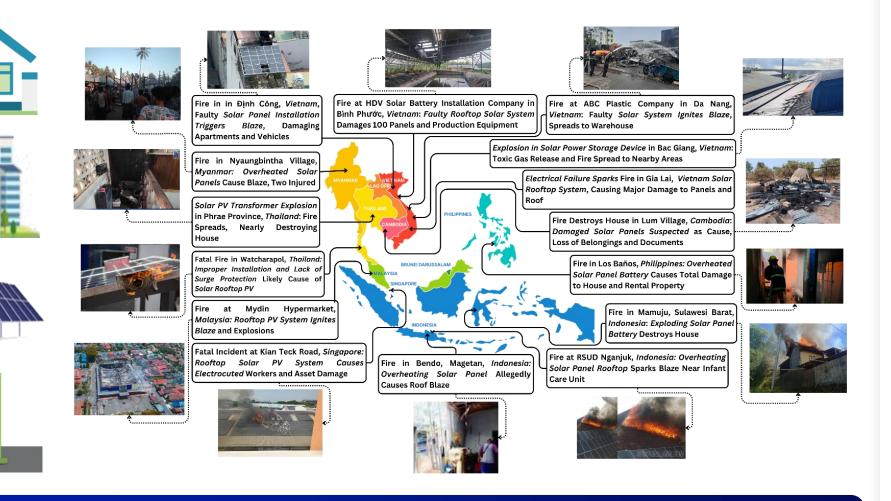
Need for International Co-Work to Develop New Technologies with ASEAN



Policy Brief

(2025) Policy Brief

- ASEAN is facing More Various Electrical Disasters than before, As there are More…
 - **1** Residential Facilities
 - 2 Factories & Large-Scale Venue
 - ③ Renewable Energy (PV, ESS...)
 - **4** EV Charging Installations



The Electrical Safety in ASEAN is becoming More Important



Policy Brief

(2025) Policy Brief

 More Needs to Resolve – Investigate – Promote "Electrical Safety with Professionality" Other Related Brunei Cambodia Lao PDR Malaysia Myanmar Indonesia Philippines Singapore Thailand Vietnam Darussalam Agencies **BSN** TISI @PEA Enterprise Singapore **ESCOM EGAT** Certification and MOST DRI (MOST) **(+)** Inspection TNB SHENA Disaster R E R E D D Management NADMA BOMBA YUL Research and Development DRI (MOST)

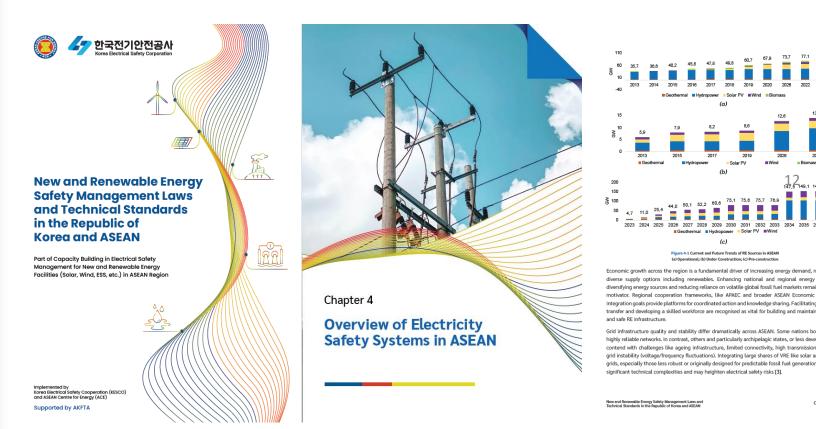
Fragmented Structure Often Leads to Insufficient Attention to Electrical Safety



Policy Brief

(2025) Policy Brief

- To Address the GAP between ASEAN member states,
- KESCO ASEAN Centre for Energy jointly Published Policy Brief Report(`25.7)



Contents

- Electrical Safety System in Korea
- Inspection & Diagnosis on NRE facilities
- Overview of Electrical Safety System in ASEAN
- Addressing Gaps in ASEAN's Electrical Safety

Providing Policy Solution to Enhance Electrical Safety Management

Future Cooperation



Future Cooperation

Addressing Gaps in Electrical Safety Mgmt. System

- To Address Gaps in Electrical Safety Mgmt. in ASEAN Members,
 - Establishing Systemic & Specialized WGs on Electrical Safety for ASEAN('26~)

1st Policy

2nd Technology

3rd Response

4th Promotion

5th Facilitation



Inspection & Certification



Operational Maintenance



Disaster Management



R&D, Education & Public Relations



Electrical Safety Task Force within ASEAN Members

1st Year Phase

2nd Year Phase

Korea – ASEAN will Approach Together Systematically and Comprehensively

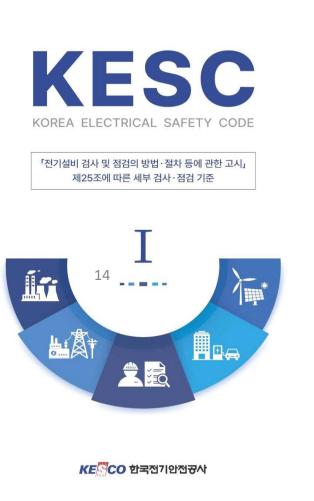
Appendix



Please Take QR code

Reports from KESCO







Please USE AI(Chat GPT, Gemini, Perplexity or etc.) to Translate into your language

