

WORKSHOP ON THE NEW ELECTRICITY SECURITY CHALLENGES

June 25th, 2024

President Hotel, Prague

Czech Transmission System Operator (ČEPS), The Israel Electric Corporation (IEC) (the Israeli power utility) and The Electric Power Research Institute (EPRI) join forces to conduct a regional workshop for Czech and Slovak energy companies, aiming to present an innovative approach combined with real-world experience on how to address the new electricity security challenges.

The rapid integration of Distributed Generation, the imperative to Decarbonize energy sources, and the unstoppable Digitization of electricity systems (jointly, the 3D's) are reshaping the electricity paradigm and present new challenges that threaten electricity security.

This workshop will focus on strategies for dynamic security in the face of digital, physical, and electrical threats to ensure a fortified and fit-for-needs grid, with manageable and cost effective operations.

The workshop presents an excellent opportunity for different stakeholders in power companies to come together, fortifying the security, reliability, and resilience of energy systems and competitive economies. This aims to ensure consistent electricity provision and sustained economic growth in the face of evolving challenges and threats. It is a great occasion for participants to learn from real-world experiences and adapt them to their unique regional contexts and discuss state-of-the-art innovations with peers and colleagues from other DSOs and TSOs.

The workshop will organized under the Chatham house rules.

Working language: English, no translation provided

TIME	TOPIC
9:00 a.m.	Welcome coffee and guests' arrival
9:30 a.m.	Introductions and welcome notes
9:45 a.m.	Introduction to 360 Electricity Security Concept. Global trends such as Decentralization, Decarbonization, and Digitalization coupled with growing demand for electricity requires a new paradym in addressing electricity security. This session will introduce the transition from a siloed-electricity-security approach to a holisitic, collaborative, effective and more affordable approach.

10:15 a.m.	Safeguarding distributed equipment and endpoint devices, the cyber approach: Safeguarding power equipment may not rank top of mind. New vulnerabilities are emerging with hackers relentlessly exploiting new devices in innovative ways, coupled with more employees working remotely. End-to-end cyber defense solution has become absolutely essential.
10:45 a.m.	Enhancing power system resilience to extreme weather events. More frequent and severe weather events are causing longer frequency, intensity, and duration of weather-related power outages. This session will address approaches for evaluating and enhancing power system resilience.
11:00 a.m.	State-of-the-art security approach: Examples of specific use cases integrating Physical, Cyber, and Electrical Security. This session will demonstrate the interdependencies among physical, cyber and electrical security.
11:30 a.m.	Outlook on Czech Digital and Cyber Sector Development. Review of challenges and risks in the cybersecurity field faced by the Czech Republic Power Industry.
11:45 a.m.	Guest utility presentation, Innovative Usecase. Local power utility shares specific usecase of an innovative technology
12:00 a.m.	The path for 360 transitions: internal champions and implementation journey. People and collaborative work are key to changing the electricity security paradigm. This session will focus on the human capital aspect and provide pragmatic steps for implementation.
12:30 a.m.	Roundtable discussion: stakeholders and challenges involved in the 360 Electricity Concept. Free discussion in small groups to pinpoint specific challenges in electricity security, the siloed versus the holistic approach.
13:30 p.m.	Lunch
14:30 p.m.	Group presentations: brief presentation of key findings by each round-table-group.
15:00 p.m.	Implementing 360 Electricity Security: Next Steps. Guided discussion on the implementation of the 360 electricity security approach.
15:30 p.m.	Wrap-up and conclusions
16:00 p.m.	Adjourn