

TLP:WHITE – Document may be distributed without restriction

Protective Measures Index

Fact Sheet

Background

The E-ISAC is providing the Protective Measures Index (PMI), adapted from Argonne National Laboratory's Physical Security Metric Tool, to asset owners and operators (AOOs) in an effort to measure the ability to resist disruptive events to their facilities. The PMI tool takes into account existing protective measures at assets and their relative importance. The tool consists of topical questions filled out by AOOs that result in a protective measure score.

Activities

The PMI tool is maintained as an Excel spreadsheet model with macros for transparency. Topics focus on the overall PMI for a given utility's facilities such as substations, power plants, and control rooms. The PMI tool contains questions specific to different security measures. Typically, site personnel answer the PMI questions and any gathered information is kept solely by the user. The PMI tool is downloaded and run locally. The current version of the PMI tool allows the user to consider one or more facilities, their location, and their significance as determined by the utility.

Objectives

- Measure the ability of the electric utilities to resist disruptive events, including man-made attacks.
- Account for existing protective measures at electric industry assets and their relative importance.
- Support "what-if" scenario studies compared to an established baseline case.
- Provide the opportunity to review specific upgrades in a scenario to improve a PMI score and assess its impact prior to committing any resources.
- Enhance the reliability, resilience, and security of the North American electricity industry.
- Provide a tool for AOOs to use in developing their own physical security priorities.
- Evaluate the security differences between similar facilities.
- Identify effective facility upgrades to increase the PMI and facility protection.

Outcomes

- 1) Use low security scores and apply scenarios to identify suggested upgrades that can increase scores.
- 2) Enter and summarize baseline and scenario data to produce graphs and show scores.
- 3) List suggested protection enhancements to improve scores.

Participation

The PMI tool (TLP:WHITE) can be downloaded from the E-ISAC portal under "Documents." The E-ISAC requests industry feedback on the tool, including recommendations to make it more effective. Demonstrations of the product are available upon request.

For Additional Information

Please email physicalsecurity@eisac.com or operations@eisac.com for more details.