Israel Electric

Keeping The Lights On in a Changing World:

A 360° Approach to Electricity Security

Electricity Security

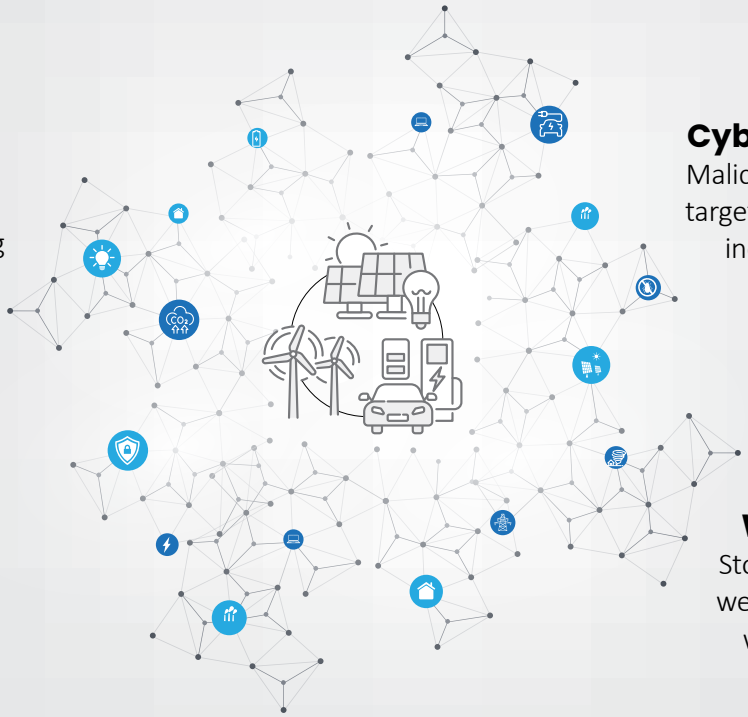
The capacity to avoid adverse impact of energy disruptions caused either by natural, accidental or intentional events affecting energy and utility supply and distribution systems.
Source: The US Department of Defense: Valuing Energy Security (ensec.org)

The future of electricity is here, and it's complex

Decentralized generation, the rise of renewables, and digital transformation are all reshaping the power grid. These changes, coupled with growing demand, introduce new challenges:

More Players More Complexity

Diverse stakeholders with varying interests are joining the grid



Cybersecurity Threats

Malicious actors are constantly targeting critical infrastructure, including the power grid

Unpredictable Power Sources

Renewable energy sources like solar and wind are fantastic for the environment, but their output can fluctuate

Extreme Weather Events

Storms, floods, and other weather events can cause widespread outagese

The Old Way Won't Work Anymore

Traditional, siloed approaches to the different aspects of electricity security are no longer enough. A holistic approach is required to simultaneously address all these risks.

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Introducing the IEC 360° Electricity Security Model

Introduced by the Israeli Electric Corporation (IEC), the Israeli power utility, the 360° model strives to integrate information and alerts received from the digital, physical, and the electrical systems. When fully deployed it analyzes the converged data to connect the dots, providing:

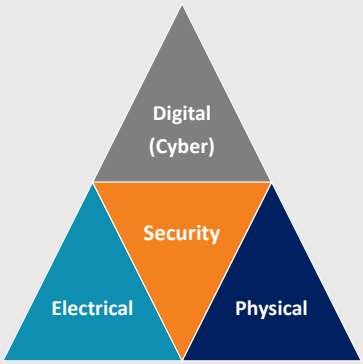
Early Warning and Prevention
Identify and address potential issues before they escalate into outages

Faster Response Times
Quickly pinpoint the cause of disruptions and get your power back on faster

Improved Decision Making
Gain a complete picture of your grid for better strategic planning

Enhanced Electricity Security Through Proactive Management

IEC 360° Electricity Security Model empowers utilities to achieve a new paradigm in ensuring quality of service. By proactively identifying and correlating electrical, digital, and physical vulnerabilities and anomalies, it minimizes the risk of power disruptions and ensures a swift recovery from any unexpected failures. This holistic approach fosters a robust and resilient grid, prepared to tackle any challenge the system encounters.



The model draws on IEC's extensive industry experience, proven methodologies, and in-house developed systems. It further integrates cutting-edge technologies, and industry-specific products to design solutions that cater to unique requirements. The pragmatic approach utilizes a comprehensive network of innovative partners, ensuring a wide spectrum of challenges can be addressed.

Tailoring the Solution to the Needs

The 360° model is flexible and can be customized to meet specific challenges.
It can be deployed through a range of services, including:

Consulting
Initial assessment needs and developing an improvement plan

Design
Creating a customized 360° solution for targeting specific needs

Implementation
Products' deployment and integration with existing systems

Operation
Ongoing operational support, updates, and maintenance