

2025 - 2020 Product Index by Technology

Cyber Security for Energy Delivery and Customer Solutions



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At A Glance: Cyber Security for Energy Delivery and Customer Solutions, Program 183	◀ 3002028986	2024
2024 Area Review: Information, Communication and Cyber Security	◀ 3002028935	2024
Cyber Security for the Utility of Today and Tomorrow	◀	2022
Cyber Security Vision for 2030	◀ 3002022715	2021
Utility Red Team Collaborative Supplemental Opportunity	◀ 3002028094	2024
Advanced Metering Infrastructure (AMI)		
Secure Integration of Advanced Metering Infrastructure (AMI) into Substation Networks	1025469	2015
Advanced Metering Infrastructure (AMI) Cyber Security Risks	◀ 3002000389	2013
AMI Cyber Security Incident Response Guidelines	◀ 1026554	2012
Intrusion Detection System for Advanced Metering Infrastructure	◀ 1026553	2012
Artificial Intelligence for Cybersecurity		
Ransomware as a Service (RaaS): The Rise of AI-assisted Threats and AI-assisted Mitigation	3002030011	2024/183A
Utility Cyber Security and Artificial Intelligence Challenges and Opportunities: Data Management Will Be Key to Successful and Secure AI Adoption	◀ 3002026339	2023
Artificial Intelligence for Cybersecurity: Use Cases	3002024831	2022
AI Based Dynamic Security Vulnerability Assessment: Power Distribution Systems with High DER Penetration	3002021405	2021
AI Based Vulnerability Assessment for Power Distribution Systems Considering Distributed Energy Resources (DERs)	3002021407	2021
Asset and Configuration Management		
Building an OT Cyber Lab: 2024 Edition	3002030012	2024/183A
Creating Effective Analytics to Monitor Operation Technology (OT) Project Opportunity	◀ 3002029440	2024
Leveraging Open Source Software in Cyber Security for Operational Technology (OT)	3002030013	2024/183A
Operationalizing Software Bill of Materials (SBOMS) Project Opportunity	◀ 3002031084	2024
Zero Trust Challenges for OT Systems	3002030093	2024/183C
Zero Trust for Operation Technology (OT): Balance Competing Objectives on the Road to a Zero-Trust Mindset Project Opportunity	◀ 3002031083	2024
Large Language Models and Cyber Security	3002027169	2023

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Power Delivery Cyber Security Tailored Assessment for Utility Transmission and Distribution Operations Project Opportunity	◀ 3002022419	2021
Distributed Energy Resources (DER)		
Enhancing DER Integration: Exploring the Application of Cloud-Based Secure Access Service Edge (SASE)	3002030099	2024/183D
Cyber Security for DER Integration: Guidebook for Utility Cyber Security Architects and Engineers, 4th Edition	3002030098	2024/183D
The State of Cyber Security for Grid-edge DER Technologies, 1st Edition	3002030119	2024/183D
Evaluation and Economic Feasibility Analysis of Commercial DER Gateways	◀ 3002025435	2023
Cybersecurity Guidebook for Distributed Energy Resources: 2nd Edition	3002024142	2022
Cyber Security and Interoperability Plan for Utility Microgrids	◀ 3002025639	2022
Security Architecture for Microgrid Integration: 2nd Edition	3002024146	2022
Threat Monitoring Guidance for DER Systems: Phase 1	3002024149	2022
DER Aggregation Participation in Electricity Markets: EPRI Collaborative Forum Final Report and FERC Order 2222 Roadmap	3002020599	2022
Cyber Security for Grid Connected Devices and Demand Response: Cybersecurity Risks, Threats, and Recommendations	3002021395	2021
Distributed Energy Resources (DER) Cybersecurity Guidebook: For Utility Cybersecurity Architecture and Engineers, 1st Edition	3002021396	2021
Distributed Energy Resource Aggregation (DERA) Market Participation Use Case Survey Tool (DERAMP-Use Case Tool) v1.0	◀ 3002022890	2021
Smart Inverter Hardware Security: Utility Procurement Guide	3002019558	2020
Smart Inverter Hardware Security: Utilizing Trusted Platform Module (TPM) for Secure Communication	3002019559	2020
Cyber Security Implications for an Integrated Grid	◀ 3002013699	2018
Forensics		
Forensics Guidebook: 2024 Edition	3002030020	2024/183B
Forensics Field Guide: SEL-421 Protection, Automation, and Control System	3002027171	2023

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Automation of Digital Forensics in Operational Technology Environments: Collection, Analysis, and Alerting	3002024151	2022
SEL-3530 RTAC Mobile Forensics Field Guide	3002024152	2022
SEL-751 Mobile Forensics Field Guide	3002022195	2021
Forensics Field Guide: SEL-751 Feeder Protection Relay	3002019055	2020
Forensics Field Guide: SEL Real Time Automation Controller	3002019056	2020
Success Story: Cyber Security Forensics	◀ 3002020730	2021
Industry Collaboration		
Cyber Security Newsletter Compendium: 2024 Update	3002030015	2024/183A
Cyber Security Industry Updates - 2023 Edition	◀	2023
Cyber Security Industry Updates 2022 Compendium	◀	2022
Cyber Security Industry Updates: 2021 Edition	◀ 3002022075	2021
Cyber Security Industry Updates: 2020 Edition	◀ 3002018065	2020
Incident Management		
Emerging Issues in Cyber Security for Data Analytics	3002030014	2024/183A
The Integrated Security Operations Center (ISOC) Guidebook - 2024 Update	3002030016	2024/183B
The Integrated Security Operations Center (ISOC) Guidebook - 2022 Update	3002024202	2022
Cyber Security Data Management – Data Model Guidelines	3002024133	2022
Cyber Security Data Management – Utility Gaps and Framework	3002024135	2022
Cyber Security Data Management - Utility Survey Results	3002024130	2022
Integrated Cyber-Physical Security for Distribution Automation Project Opportunity	◀ 3002025419	2022
The Integrated Security Operations Center Guidebook: Version 4	3002021415	2021
Responding to High Impact Cyber Security Events (RHISE) Project Opportunity	◀ 3002022733	2021
Detecting Attacks and Validating Serial Communication Data Integrity in Legacy Critical Infrastructure	3002018547	2020
Implementing Intrusion Detection/Prevention Systems for Power Delivery Systems: Advanced Techniques	3002019733	2020

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Implementation and Migration

A Conceptual Framework for Grid Security: Modeling Power, Control, and Communication Dependencies	3002030146	2024/161C
Substation Security Guidebook: 2024 Update	3002030091	2024/161C
DNP Users Group SAV6/AMP Cyber Security Development Program	3002026128	2023
Integrating Security in the T&D Lifecycle	3002027166	2023
Integrated Grid Security Strategies	3002027333	2023
Substation Security Guidebook: 2023 Edition	3002027332	2023
Cyber Security for Digital Substations	3002024171	2022
Guidebook for a Comprehensive Approach to Secure Intelligent Electronic Device (IED) Management	3002024172	2022
Guidebook: A Comprehensive Approach to Secure IED Management	3002021333	2021
Secure IED Management Strategies Project Opportunity	◀ 3002022701	2021
Remote Sensor Cyber Security for Electric Utilities	3002018545	2020
Substation Intelligent Electronic Device (IED) Management: A Management Model for IEDs	3002020128	2020
Success Story: GPS Cyber Security Assessment Help Understand Risks for Transmission Applications	◀ 3002018038	2020

National Electric Sector Cybersecurity Organization Resource (NESCOR) ◀

Analysis of Selected Electric Sector High Risk Failure Scenarios– Version 2.0	◀	2015
Electric Sector Failure Scenarios and Impact Analyses–Version 3.0	◀	2015
Electric Sector Failure Scenarios Common Vulnerabilities and Mitigations Mapping–Version 2.0	◀	2015
Attack Trees for Selected Electric Sector High Risk Failure Scenarios – Version 2.0	◀	2015
Common Sub Trees for NESCOR Failure Scenarios	◀	2015
Guidelines for Leveraging NESCOR Failure Scenarios in Cyber Security Tabletop Exercises	◀	2014
NESCOR Guide to Penetration Testing for Electric Utilities	◀	2013
Smart Energy Profile (SEP) 1.x Summary and Analysis, Version 1.0	◀	2011

Network and System Management

Security Integration for Transmission and Distribution Systems: Collaborative Working Group	3002024173	2022
Secure Network Communications for Electric Utilities: Technology Highlight	3002019505	2020

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Procurement

Smart Inverter Hardware Security: Utilizing TPM for Secure Communication Video [3002019559](#) 2020

Smart Inverter Hardware Security: Utility Procurement Guide [3002019558](#) 2020

Risk Management and Assessment

Cybersecurity Decision Framework for Utility Scale Energy Storage [3002030225](#) 2024/183D

Cybersecurity Decision Framework for Utility Scale Energy Storage Systems and Site-Specific Risk Analysis [3002030226](#) 2024/183D

De-Risking Cyber Insurance for Utilities (Video) [3002028361](#) 2023

De-Risking Cyber Insurance for Utilities [3002028360](#) 2023

De-risking Cyber Insurance for Utilities and Insurers ◀ [3002027315](#) 2023

Distributed Energy Resources (DER) Cyber Security Guidebook for Utility Architects and Engineers, 3rd Edition [3002027325](#) 2023

EPRI's Power Delivery Cyber Security Risk Assessments Help Reduce Outages And Improve Safety ◀ [3002025993](#) 2023

Cybersecurity Guidebook for Distributed Energy Resources: 2nd Edition [3002024142](#) 2022

Cyber Security Decision Framework for Utility-Scale Energy Storage Systems ◀ [3002022702](#) 2021

Cybersecurity for Utility UAS Operations [3002023217](#) 2021

Innovation in Utility Security Automation: Automating Cybersecurity Compliance [3002022196](#) 2021

Security Architecture

Security Architecture for Microgrid Integration v2 [3002024146](#) 2022

Distributed Energy Resources (DER) Cybersecurity Guidebook: For Utility Cybersecurity Architecture and Engineers, 1st Edition [3002021396](#) 2021

Cybersecurity Requirements for Utility Electric Vehicle Charging Infrastructure [3002021392](#) 2021

Cyber Security for Grid Connected Devices and Demand Response: Cybersecurity Risks, Threats, and Recommendations [3002021395](#) 2021

Cybersecurity Requirements for Utility Owned Energy Storage Systems [3002021386](#) 2021

Cybersecurity for Energy Storage Systems [3002023260](#) 2021

Security Architecture for Microgrid Integration [3002019252](#) 2020

Cyber Security Assessment of IEEE 2030.5 for DER Integration [3002019255](#) 2020

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Success Story: EPRI Security Architecture for the DER Integration Network and 2019 DER Cyber Security Workshop	◀ 3002018039	2020
Security Metrics		
Machine Learning and Applications for OT Cyber Security Operations Version 1	3002030128	2024/183E
Metrics 101 – A Beginners Guide to OT Cyber Security Metrics	3002028968	2024/183E
OT Cyber Security Data Management Guide V2	3002030124	2024/183E
OT Cyber Security Resiliency Metrics V3	3002030128	2024/183E
Benchmarking Utility Cyber Security	3002027175	2023
Building an OT Cyber Lab	3002027170	2023
Metrics 101 – A Beginners Guide to OT Cyber Security Metrics	3002028968	2023
OT Cyber Security Data Management Guide: Version 1	3002027173	2023
OT Cyber Security Resiliency Metrics V2	3002027174	2023
Three Takeaways from the Data Management Guide V1	3002027322	2023
Cyberjoule™ Splunk API v1.1	3002027500	2023
Cyberjoule™ Benchmark Project	◀ 3002025450	2022
Cyberjoule™ Platform Implementation for Utility Cyber Security Metrics	◀ 3002023817	2022
OT Cyber Security Resiliency Metrics V1	3002024129	2022
Metrics 101 – A Beginners Guide to OT Cyber Security Metrics	3002024127	2022
Cyber Security Architecture for Digital by Design SCADA Systems Building the Next Generation of 61850 Substation: An Update Plan for the Smart Grid Substation Lab	3002024204	2022
OT Cyber Risk Assessments for Transmission and Distribution Operations Project Opportunity	◀ 3002023216	2021
Success Story: EPRI Cyber Security Metrics Operationalization Pilot with ConEd, AECC and TVA	◀ 3002020729	2021
EPRI Cyber Security Metrics for the Electric Sector: Cyber Security Metrics Implementation Guidebook	3002021398	2021
EPRI OpenMetCalc User Guide: OpenMetCalc 3.0 User Manual	◀ 3002021399	2021
OpenMetCalc 3.0 Tutorial Workbook: A Quick Guide to EPRI OpenMetCalc 3.0	3002021401	2021
EPRI Cyber Security Metrics: Data Point Definition & Collection Guideline	3002019259	2020

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Tabletop Exercises and Testing

Tabletop Exercise (TTX) Report: Cooperative Energy	3002031224	2024
Tabletop Exercise (TTX) Report: New York Power Authority	3002030228	2024
Cyber Security Incident Response and Recovery Tabletop Exercise	◀ 3002017679	2022
Penetration Testing of Power Delivery Systems	3002019732	2020

Technology Innovation

Understanding Low-impact BES Cyber System NERC CIP Requirements for Cloud	◀ 3002019319	2020
Grid Cybersecurity for Automated Demand Response (DR) Ready Buildings	◀ 3002019416	2020
Smart Inverter Hardware Security: Communication Module Reference Design	3002019560	2020

Threat Management

OT Network Visibility Guidebook	3002030019	2024/183B
Threat Management Guidebook (2024 Update)	3002030017	2024/183B
Creating Effective Analytics to Monitor Operation Technology (OT) Supplemental Opportunity	◀ 3002029440	2023
The Integrated Security Operations Center Guidebook: 2023 Update	3002026798	2023
OT Network Visibility: Guidebook	3002028549	2023
Post Quantum Cryptography in Operational Technology	3002026799	2023
Threat Monitoring for DERs – Phase II: Enabling WAF Technologies	3002027167	2023
Threat Management Guidebook: 2023	3002027168	2023
Threat Management Guidebook (2022 Update)	3002024203	2022
Threat Monitoring Guidance for DER Systems	3002024149	2022
Insider Threat Management Program Guidebook for Electric Power Utilities	3002022658	2021
Threat Management Guidebook: Version 1	3002021416	2021
Threat Automation Authorization Use Cases	3002018546	2020
The Integrated Security Operations Center (ISOC) Video	◀ 3002018643	2020

Training

Xcel Energy Staff Benefits from Remote Cyber Security Operational Technology Equipment	3002028332	2023
Familiarization Course Success Story		
Cyber Security Operational Technology Equipment Familiarization Course	◀ 3002022698	2021