

ICT guidebooks serve as flexible reference materials for utilities, aiding in the development of emerging standards and architectures to improve interoperability, innovation, and marketplace competition. The guidebooks also highlight best practices for supporting system operations and monitoring.

## Project Set161D: Distributed Energy Resources (DER) Data and Connectivity

Title	PID#	Year
Smart Meters with Internal Wi-Fi for DER Integration Challenges: Challenges and Research Needs for DER-Ready AMI Platforms	<a href="#">3002032120</a>	2025
Distributed Energy Resources Interoperability Guidebook - 2025 Edition:Information and Case Studies to Support Utilities in AchievingInteroperability with Distributed Energy Resources and DemandFlexibility	<a href="#">3002031779</a>	2025
Distributed Energy Resources Non-Interoperability and How We Fix It:EPRI Findings and Action Plan	<a href="#">3002031737</a>	2025
EPRI Protocol Reference Guidebook - 9th Edition: Annual Assessment ofProtocols and Profiles for Achieving Grid Flexibility from Distributed Energy Resources (DER), Electric Vehicles, and Demand FlexibilityTechnologies	<a href="#">3002032119</a>	2025
IoT Technologies for Distributed Energy Resources - 4th Edition:Information, Case Studies, and Lab Evaluations of IoT-Based Connectivity, Distributed Messaging, and Integrated Platform-As-A-Service Solutions	<a href="#">3002031781</a>	2025
Interoperability Guidance for Utility Technical Interconnection Requirements	<a href="#">3002032121</a>	2025
Electric Vehicle Supply Equipment (EVSEs) with Vehicle-to-Grid Capability: Communication Integration and UL 1741 SC	<a href="#">3002029065</a>	2024
EPRI Protocol Reference Guidebook – 8th Edition	<a href="#">3002029064</a>	2024
Distributed Energy Resources Interoperability Guidebook – 2024 Edition: Information and Case Studies to Support Utilities in Achieving Interoperability with Distributed Energy Resources and Demand Response Technologies	<a href="#">3002029062</a>	2024
DER Interoperability Guidebook	<a href="#">3002026700</a>	2023
EPRI Protocol Reference Guidebook – 7th Edition	<a href="#">3002026697</a>	2023
IoT Technologies for Distributed Energy Resources – 2023 Guidebook: Information, Case Studies, and Lab Evaluations of IoT-Based Connectivity, Distributed Messaging, and Integrated Platform-As-A-Service Solutions	<a href="#">3002026699</a>	2023
DER Protocol Reference Guidebook – 6th Edition: Assessment of Information and Protocol Standards for Distributed Energy Resources (DER), Electric Vehicles, and Demand Response Technologies	<a href="#">3002024179</a>	2022
Distributed Energy Resources Interoperability Guidebook – 2022 Edition: Information and Case Studies to Support Utilities in Achieving Interoperability with Distributed Energy Resources and Demand Response Technologies	<a href="#">3002024910</a>	2022
Distributed Energy Resources (DER) Protocol Reference Guidebook—5th Edition: Public Version	<a href="#">3002023419</a>	2022
Demand Response Interoperability Guidebook: A Repository of Information to Support Utilities in Achieving Interoperability in Demand Response Technologies	<a href="#">3002018543</a>	2020

**Project Set 161 E: Enterprise Architecture and Integration**

<b>Title</b>	<b>PID#</b>	<b>Year</b>
Architectural Impacts of Disruptive Technologies: Sixth Edition	<a href="#">3002032396</a>	2025
Data Management Guidebook 1.0	<a href="#">3002032400</a>	2025
Digital Transformation: Information Technology-Operational Technology Convergence Guidebook, Eight Edition	<a href="#">3002032391</a>	2025
Grid Modernization Playbook (joint deliverable P200/161 E)	<a href="#">3002033541</a>	2025
Utility Business Capability Guidebook, Fourth Edition	<a href="#">3002032397</a>	2025
Utility Business Capability Model 2026	<a href="#">3002032390</a>	2025
Architectural Impacts of Disruptive Technologies, Fifth Edition	<a href="#">3002029933</a>	2024
2024 EPRI Utility Business Capability Model (Public Version)	<a href="#">3002030842</a>	2024
2024 EPRI Utility Business Capability Model	<a href="#">3002029916</a>	2024
Business Capability Model Guidebook for Business Capability Model Phase II	<a href="#">3002031353</a>	2024
Cloud Integration Guidebook: A Guide for Enterprise Architects, 8th Edition	<a href="#">3002029921</a>	2024
Common Information Model (CIM) Primer, 10th Edition	<a href="#">3002029927</a>	2024
Digital Transformation: Information Technology-Operational Technology Convergence Guidebook: Seventh Edition	<a href="#">3002029931</a>	2024
Grid Modernization Playbook: A Framework for Developing Your Plan	<a href="#">3002030340</a>	2024
IoT Technologies for Distributed Energy Resources – 2024 Guidebook	<a href="#">3002030955</a>	2024
LEAPWorx 5th Edition	<a href="#">3002029906</a>	2024
Top Ten Indicators of Enterprise Architecture (EA) Maturity-2023 Results	<a href="#">3002029901</a>	2024
Utility Business Capability Model Guidebook 3rd Edition	<a href="#">3002029917</a>	2024
Utility Enterprise Architecture Guidebook, 9th Edition	<a href="#">3002029889</a>	2024
Cloud Integration Guidebook: A Guide for Enterprise Architects, 7th Edition	<a href="#">3002026851</a>	2023
Common Information Model (CIM) Primer, 9th Edition	<a href="#">3002026852</a>	2023
Digital Transformation: Aligning Information Technology and Operations Technology, 6th Edition	<a href="#">3002026853</a>	2023
Impacts of Disruptive Technologies 4th	<a href="#">3002026854</a>	2023
Utility Enterprise Architecture Guidebook, 8th Edition	<a href="#">3002026848</a>	2023
Utility Business Capability Model Guidebook 2nd Edition	<a href="#">3002028279</a>	2023
Architectural Impacts of Disruptive Technology	<a href="#">3002024191</a>	2022
Common Information Model (CIM) Primer: Eighth Edition	<a href="#">3002024188</a>	2022

Cloud Integration Guidebook, 7th Edition: A Guide for Enterprise Architects	<a href="#">3002024186</a>	2022
Digital Transformation: Information Technology–Operational Technology Convergence Guidebook: Fifth Edition	<a href="#">3002024190</a>	2022
Library of Enterprise Architecture Patterns: LEAPworx 4th Edition	<a href="#">3002024189</a>	2022
Top Ten Indicators of Enterprise Architecture (EA) Maturity—2021 Results	<a href="#">3002024184</a>	2022
Utility Enterprise Architecture Guidebook, 7th Edition	<a href="#">3002024183</a>	2022
Introduction to Grid Model Data Management (GMDM): A Best Practice Approach to Managing Distribution Grid Model Data	<a href="#">3002025384</a>	2022
Common Information Model (CIM) Support for Distribution Grid Model Data Management	<a href="#">3002025386</a>	2022
Applying the Grid Model Data Management (GMDM) Information Architecture at the Distribution Utility	<a href="#">3002025387</a>	2022
Distribution Grid Model Manager (GMM) Functional Requirements	<a href="#">3002025388</a>	2022
A Framework for Relating the Elements of Strategy Development through Implementation	<a href="#">3002021853</a>	2021

## Project Set 161 F: Advanced Metering Systems

Title	PID#	Year
Advanced Metering Data Analytics Guidebook, 3rd Edition	<a href="#">3002032221</a>	2025
ANSI Meter Standards Utilization, 2nd Edition	<a href="#">3002032217</a>	2025
Considerations for Incorporating Substation Meters into Advanced Metering Infrastructure Platforms	<a href="#">3002032222</a>	2025
The Evolution of Advanced Metering Infrastructure System Functions	<a href="#">3002032219</a>	2025
Continuous Meter Replacement in Heterogenous Systems	<a href="#">3002029971</a>	2024
DLMS/COSEM for North American Utilities	<a href="#">3002029969</a>	2024
Introduction to DC Metering for Utilities	<a href="#">3002029970</a>	2024
Advanced Metering Data Analytics Guidebook	<a href="#">3002026784</a>	2023
Standard Meter Communications Protocols Primer	<a href="#">3002024105</a>	2022
Guidebook for Identifying and Mitigating AMI Communications	<a href="#">3002024106</a>	2022
Analyzing and Categorizing Momentary Outages from Advanced Metering Infrastructure (AMI) Data	<a href="#">3002024107</a>	2022
Advanced Metering Infrastructure (AMI) Reference Architecture	<a href="#">3002021854</a>	2021
Guidebook for Integrating AMI into Outage Management	<a href="#">3002021413</a>	2021
Program on Technology Innovation: Utilizing AMI Data for Fault Anticipation	<a href="#">3002021414</a>	2021
Revenue Protection Guidebook, Second Edition: Using Advanced Metering Infrastructure	<a href="#">3002018630</a>	2021
Guidebook for Advanced Metering Infrastructure (AMI) Data Analytics	<a href="#">3002015774</a>	2019

Guidebook for AMI System Disaster Preparedness and Restoration, First Edition	<a href="#">3002010502</a>	2017
Guidebook for Advanced Metering Infrastructure Prognostics and Health Management, Second Edition	<a href="#">3002005471</a>	2015

### Project Set 161G: Telecommunications

Title	PID#	Year
6 GHz AFC Protection: Field Test Results - 2025	<a href="#">3002032228</a>	2025
Evaluation of 5G for Low Latency Use Cases	<a href="#">3002032233</a>	2025
Network Management Systems Guidebook	<a href="#">3002032234</a>	2025
Private Long-Term Evolution Guidebook - A Guidebook on Cellular Communications for Utilities: Seventh Edition 2025	<a href="#">3002032232</a>	2025
Satellite and Emergency Communication: Phase 3 - 2025	<a href="#">3002032236</a>	2025
Security and Resiliency of Utility Critical Communications Infrastructure for Microgrids	<a href="#">3002032235</a>	2025
Strategic Fiber Guidebook 2025 Edition	<a href="#">3002032231</a>	2025
Telecommunication Standards Guidebook V7 2025	<a href="#">3002032240</a>	2025
WAN Modernization Guidebook 2025 Edition	<a href="#">3002032229</a>	2025
Integrating Islandable Communications Networks into Resilient Microgrids: Lab Test Results	<a href="#">3002029964</a>	2024
Network Management Guidebook: 2024 Edition	<a href="#">3002029963</a>	2024
Private LTE Guidebook – 2024 Edition	<a href="#">3002029961</a>	2024
Telecommunication Standards Guidebook V6 2024	<a href="#">3002029967</a>	2024
Wide Area Network (WAN) Modernization Guidebook: 2024 H1 Edition	<a href="#">3002029953</a>	2024
Network Management Systems Guidebook	<a href="#">3002027107</a>	2023
Private LTE Guidebook – 2023 Edition	<a href="#">3002027090</a>	2023
Strategic Fiber Guidebook 2023 Edition	<a href="#">3002027080</a>	2023
Telecom Standards Guidebook Vol 5	<a href="#">3002027156</a>	2023
WAN Modernization Guidebook 2023 Edition	<a href="#">3002027068</a>	2023
Private Long-Term Evolution Guidebook	<a href="#">3002023624</a>	2022
Telecommunication Standards Guidebook V4	<a href="#">3002023631</a>	2022
Strategic Fiber Guidebook 2022 Edition	<a href="#">3002023623</a>	2022

FirstEnergy 6 GHz Additive Interference Study – Public	<a href="#">3002025484</a>	2022
Wide Area Network (WAN) Modernization Guidebook: First Edition 2022	<a href="#">3002023622</a>	2022
Teleprotection Over Packet Guidebook: 2020 Edition	<a href="#">3002018509</a>	2020
Utility Telecom Planning Framework and Reference Guide	<a href="#">3002009805</a>	2018

## Project Set 161H: Geospatial Informatics

Title	PID#	Year
Digital Twin Case Studies and Takeaways from Industrial Immersive 2025	<a href="#">3002032165</a>	2025
Geospatial Informatics Guidebook: Sixth Edition	<a href="#">3002032160</a>	2025
Geospatial Innovations	<a href="#">3002029157</a>	2024
Geospatial Informatics Guidebook 4th Edition	<a href="#">3002026827</a>	2023
Geospatial Informatics Guidebook: Third Edition	<a href="#">3002024796</a>	2022
Geospatial Requirements for XR Applications - 2022 Update	<a href="#">3002024797</a>	2022
Enhancing GIS Data Quality Using Artificial Intelligence Tools	<a href="#">3002024798</a>	2022
GIS Leading Practices Guidebook – Data Cleanup Methods with Cost–benefit Analysis Guidance	<a href="#">3002010509</a>	2017
Electric Utility Guidebook for Geographic Information Systems Data Quality: Metadata	<a href="#">3002007921</a>	2016
Electric Utility Guidebook for GIS Data Quality: Conflation	<a href="#">3002006006</a>	2015
Electric Utility Guidebook on Geospatial Information System (GIS) Data Quality	<a href="#">3002003036</a>	2014