

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 Set 161 D: Distributed Energy Resources (DER) Data and Connectivity

Title	PID#	Year
Electric Vehicle Supply Equipment (EVSEs) with Vehicle-to-Grid Capability: Communication Integration and UL 1741 SC	3002029065	2024
EPRI Protocol Reference Guidebook – 8th Edition	3002029064	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	3002029062	2024
DER Interoperability Guidebook	3002026700	2023
EPRI Protocol Reference Guidebook – 7th Edition	3002026697	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	3002026699	2023
DER Protocol Reference Guidebook – 6th Edition: Assessment of Information and Protocol Standards for Distributed Energy Resources (DER), Electric Vehicles, and Demand Response Technologies	3002024179	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	3002024910	2022
Distributed Energy Resources (DER) Protocol Reference Guidebook—5th Edition: Public Version	3002023419	2022
Demand Response Interoperability Guidebook: A Repository of Information to Support Utilities in Achieving Interoperability in Demand Response Technologies	3002018543	2020

Project Set 161 E: Enterprise Architecture and Integration

Title	PID#	Year
Architectural Impacts of Disruptive Technologies, Fifth Edition	3002029933	2024
2024 EPRI Utility Business Capability Model (Public Version)	3002030842	2024
2024 EPRI Utility Business Capability Model	3002029916	2024
Business Capability Model Guidebook for Business Capability Model Phase II	3002031353	2024
Cloud Integration Guidebook: A Guide for Enterprise Architects, 8th Edition	3002029921	2024
Common Information Model (CIM) Primer, 10th Edition	3002029927	2024
Digital Transformation: Information Technology–Operational Technology Convergence Guidebook: Seventh Edition	3002029931	2024

Grid Modernization Playbook: A Framework for Developing Your Plan	3002030340	2024
IoT Technologies for Distributed Energy Resources – 2024 Guidebook	3002030955	2024
LEAPWorx 5th Edition	3002029906	2024
Top Ten Indicators of Enterprise Architecture (EA) Maturity-2023 Results	3002029901	2024
Utility Business Capability Model Guidebook 3rd Edition	3002029917	2024
Utility Enterprise Architecture Guidebook, 9th Edition	3002029889	2024
Cloud Integration Guidebook: A Guide for Enterprise Architects, 7th Edition	3002026851	2023
Common Information Model (CIM) Primer, 9th Edition	3002026852	2023
Digital Transformation: Aligning Information Technology and Operations Technology, 6th Edition	3002026853	2023
Impacts of Disruptive Technologies 4th	3002026854	2023
Utility Enterprise Architecture Guidebook, 8th Edition	3002026848	2023
Utility Business Capability Model Guidebook 2nd Edition	3002028279	2023
Architectural Impacts of Disruptive Technology	3002024191	2022
Common Information Model (CIM) Primer: Eighth Edition	3002024188	2022
Cloud Integration Guidebook, 7th Edition: A Guide for Enterprise Architects	3002024186	2022
Digital Transformation: Information Technology–Operational Technology Convergence Guidebook: Fifth Edition	3002024190	2022
Library of Enterprise Architecture Patterns: LEAPworx 4th Edition	3002024189	2022
Top Ten Indicators of Enterprise Architecture (EA) Maturity—2021 Results	3002024184	2022
Utility Enterprise Architecture Guidebook, 7th Edition	3002024183	2022
Introduction to Grid Model Data Management (GMDM): A Best Practice Approach to Managing Distribution Grid Model Data	3002025384	2022
Common Information Model (CIM) Support for Distribution Grid Model Data Management	3002025386	2022
Applying the Grid Model Data Management (GMDM) Information Architecture at the Distribution Utility	3002025387	2022
Distribution Grid Model Manager (GMM) Functional Requirements	3002025388	2022
A Framework for Relating the Elements of Strategy Development through Implementation	3002021853	2021

Project Set 161 F: Advanced Metering Systems

Title	PID#	Year
Continuous Meter Replacement in Heterogenous Systems	3002029971	2024
DLMS/COSEM for North American Utilities	3002029969	2024
Introduction to DC Metering for Utilities	3002029970	2024
Advanced Metering Data Analytics Guidebook	3002026784	2023
Standard Meter Communications Protocols Primer	3002024105	2022
Guidebook for Identifying and Mitigating AMI Communications	3002024106	2022
Analyzing and Categorizing Momentary Outages from Advanced Metering Infrastructure (AMI) Data	3002024107	2022
Advanced Metering Infrastructure (AMI) Reference Architecture	3002021854	2021
Guidebook for Integrating AMI into Outage Management	3002021413	2021
Program on Technology Innovation: Utilizing AMI Data for Fault Anticipation	3002021414	2021
Revenue Protection Guidebook, Second Edition: Using Advanced Metering Infrastructure	3002018630	2021
Guidebook for Advanced Metering Infrastructure (AMI) Data Analytics	3002015774	2019
Guidebook for AMI System Disaster Preparedness and Restoration, First Edition	3002010502	2017
Guidebook for Advanced Metering Infrastructure Prognostics and Health Management, Second Edition	3002005471	2015

Project Set 161 G: Telecommunications

Title	PID#	Year
Integrating Islandable Communications Networks into Resilient Microgrids: Lab Test Results	3002029964	2024
Network Management Guidebook: 2024 Edition	3002029963	2024
Private LTE Guidebook – 2024 Edition	3002029961	2024
Telecommunication Standards Guidebook V6 2024	3002029967	2024
Wide Area Network (WAN) Modernization Guidebook: 2024 H1 Edition	3002029953	2024
Network Management Systems Guidebook	3002027107	2023
Private LTE Guidebook – 2023 Edition	3002027090	2023
Strategic Fiber Guidebook 2023 Edition	3002027080	2023
Telecom Standards Guidebook Vol 5	3002027156	2023

WAN Modernization Guidebook 2023 Edition	3002027068	2023
Private Long-Term Evolution Guidebook	3002023624	2022
Telecommunication Standards Guidebook V4	3002023631	2022
Strategic Fiber Guidebook 2022 Edition	3002023623	2022
FirstEnergy 6 GHz Additive Interference Study – Public	3002025484	2022
Wide Area Network (WAN) Modernization Guidebook: First Edition 2022	3002023622	2022
Teleprotection Over Packet Guidebook: 2020 Edition	3002018509	2020
Utility Telecom Planning Framework and Reference Guide	3002009805	2018

Project Set 161H: Geospatial Informatics

Title	PID#	Year
Geospatial Innovations	3002029157	2024
Geospatial Informatics Guidebook 4th Edition	3002026827	2023
Geospatial Informatics Guidebook: Third Edition	3002024796	2022
Geospatial Requirements for XR Applications - 2022 Update	3002024797	2022
Enhancing GIS Data Quality Using Artificial Intelligence Tools	3002024798	2022
GIS Leading Practices Guidebook – Data Cleanup Methods with Cost—benefit Analysis Guidance	3002010509	2017
Electric Utility Guidebook for Geographic Information Systems Data Quality: Metadata	3002007921	2016
Electric Utility Guidebook for GIS Data Quality: Conflation	3002006006	2015
Electric Utility Guidebook on Geospatial Information System (GIS) Data Quality	3002003036	2014