

Smart Grid Deployment Verification Checklist Template

Planning & Design Verification

Ensuring alignment with initial design specifications and regulatory requirements.

Design Load Factor Accuracy	
Enter a number	
Compliance with Industry Standards?	
☐ Yes ☐ No	
Pending	
Original Design Approval Date	
Enter date	
Detailed Description of Design Assumptions	
Write something	

Approved Design Documents (e.g., schematics, drawings) ① Upload File	
Site Survey Validation?	
Yes	
No N/A	
Voltage Drop Calculation Verification	
Enter a number	
alidating the functionality and security of communication networks	
Alidating the functionality and security of communication networks. Network Latency (ms)	
Network Latency (ms)	
Network Latency (ms) Enter a number	
Network Latency (ms) Enter a number Bandwidth Capacity (Mbps) Enter a number	
Network Latency (ms) Enter a number Bandwidth Capacity (Mbps) Enter a number Communication Protocol Used	
Network Latency (ms) Enter a number Bandwidth Capacity (Mbps) Enter a number	
Network Latency (ms) Enter a number Bandwidth Capacity (Mbps) Enter a number Communication Protocol Used TCP/IP	

Security Protocols Implemented TLS/SSL IPsec AES Encryption	
Last Network Security Audit Date	
Enter date	
Description of Redundancy Measures	
Write something	
Advanced Metering Infrastructure (AMI) Testing meter accuracy, data transmission, and network stability.	
Meter Read Accuracy (Percentage)	
Enter a number	
Data Transmission Success Rate (%)	
Enter a number	

Communication Protocol Used Zigbee Wi-Fi
Cellular PLC
Last Firmware Update Date
Enter date
Typical Data Retrieval Time (Seconds)
Encryption Method
☐ AES ☐ RSA
TLS
Notes on AMI performance issues (if any)
Write something
Distribution Automation (DA)
erifying automated switching, fault detection, and voltage regulation.
Voltage Regulator Response Time (seconds)
Enter a number

Enter a number			
Fault Detection Algo	rithm Accuracy		
Excellent			
Good			
☐ Fair			
Poor			
Last Automated Swit	ch Maintenance I	Date	
Enter date			
Last Automated Swite Enter date Average Time to Research Automated Actions V	tore Power after		
Enter date Average Time to Res	tore Power after		
Enter date Average Time to Res Automated Actions V	tore Power after		

Cybersecurity Controls

Confirming implementation and effectiveness of security measures.

Firewall Configuration Verified? Yes
□ No
☐ Not Applicable
Latest Vulnerability Scan Score
Enter a number
Intrusion Detection/Prevention Systems (IDS/IPS) Enabled?
☐ Network IDS
☐ Host-Based IDS
Signature-Based
Anomaly-Based
Patch Management Process Followed? Yes
∐ No
In Progress
Last Security Awareness Training Date
Enter date
Summary of Security Incident Response Plan Review
Write something

Data Analytics and Reporting

Checking data integrity, accessibility, and accuracy of reports.

Data Accuracy Score (%)	
Enter a number	
Data Source Validation Status	
☐ Valid	
Invalid	
Pending	
Land Dada Jada saita Obasala Dada	
Last Data Integrity Check Date	
Enter date	
Notes on Data Anomalies Detected	
Write something	
	J
Reporting System Integration Status	
Integrated	
Not Integrated	
Partially Integrated	
Report Generation Time (seconds)	
Enter a number	

Integration with Existing Systems

Assessing compatibility and functionality across integrated systems.

SCADA System Integration Status Fully Integrated Partially Integrated Not Integrated
Data Synchronization Latency (seconds)
Enter a number
Description of Integration Challenges Encountered Write something
GIS System Integration Status Fully Integrated Partially Integrated Not Integrated
Last Data Synchronization Date Enter date

Systems Integrated (Select all that apply) Billing System	
Customer Information System	
Work Order Management System	
Work order management dystem	
User Training and Acceptance	
Evaluating user proficiency and system acceptance.	
Number of Users Trained	
Enter a number	
Training Delivery Method	
Online	
☐ In-Person	
Hybrid	
Training Feedback Summary	
Write something	
Training Madulas Covered	
Training Modules Covered	
System Overview Data Interpretation	
Troubleshooting	
Security Protocols	
Security 1 Totocols	

Date of Training Completion (Representative Sample)
Enter date	
Signature of Trainer	
erformance Monitoring & Optim	ization
viewing initial performance data and identifying areas for	improvement.
Average System Response Time (ms)	
Enter a number	
Data Transmission Error Rate (%)	
Enter a number	
/oltage Regulation Accuracy (%)	
Enter a number	
System Uptime (%)	
Enter a number	
Date of Last Performance Review	

Summary of Performance Observ	vations
Write something	
Overall Performance Assessmen	ıt
Excellent	
Good	
Fair	
Needs Improvement	
onfirming adherence to all applicable	ce regulatory standards and requirements
Applicable Regulations NERC CIP FERC Regulations	
Applicable Regulations NERC CIP FERC Regulations State Energy Regulations	
Applicable Regulations NERC CIP FERC Regulations State Energy Regulations Local Ordinances	
Applicable Regulations NERC CIP FERC Regulations State Energy Regulations Local Ordinances Last Compliance Audit Date Enter date	
Applicable Regulations NERC CIP FERC Regulations State Energy Regulations Local Ordinances Last Compliance Audit Date	

Write something			
Copy of Compliar	ce Audit Repor	t	
♣ Upload File			
Status of Correct	ve Actions		
Completed			
☐ In Progress			
Not Started			
	nlianoo Boyiow		
Date of Next Com	pilatice Review		