Ameren Illinois Smart Grid Overview

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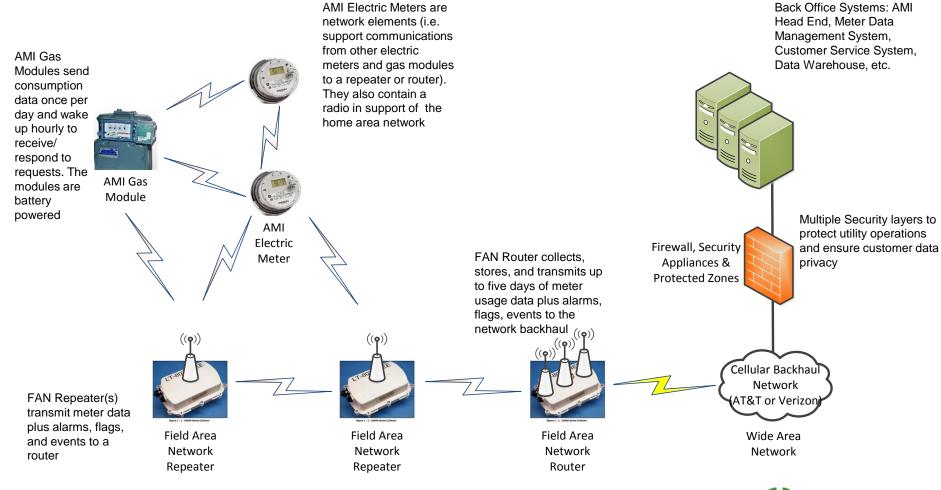


Smart Grid Overview

- Advanced Metering Infrastructure (AMI)
- Technology Applications Center (TAC)
- Cybersecurity

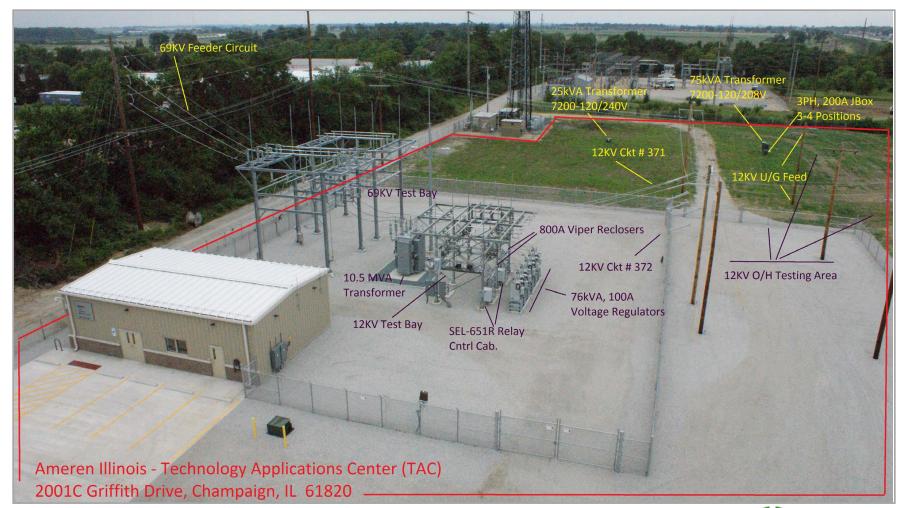


AMI Networking Diagram





Ameren Illinois Technology Applications Center





Cybersecurity

- Cybersecurity is a key component to ensuring the technology and associated business processes are secure, customer data is protected and threat detection identification and mitigation processes are in place.
- Features of associated cybersecurity architecture and processes will include:
 - The NIST Security Framework is the foundation for our cybersecurity model
 - Data encryption technologies similar to those used by US Dept. of Defense and financial institutions
 - Strict cyber and physical access controls
 - Electronic segregation of environments
 - 24/7 monitoring of associated networks and devices
 - Execution of third-party penetration tests with some frequency
 - Strict adherence to Ameren's Data and Information Classification and Encryption Policies
 - Cybersecurity education and training of employees and contractors
- Cybersecurity personnel have been dedicated full-time to this effort and are participants in various national and regional security efforts, such as the Smart Grid Interoperability Panel and DOE Voluntary Code of Conduct.





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