

Grid Modernization

Upfront Cybersecurity & Controls Considerations

AEG DMV 23Q3 Grid Modernization Action Challenge

Emily Cillessen July 13, 2023

System Wide Vulnerabilities

Grid Modernization Efforts are Multi-Vendor, Multi-Platform

- Multiple control platforms and communications
- Isolated networks
- Decentralized grid = increased number of interconnections







Systems of Systems Coordination





Benefits of System Wide Security

- Secondary controls can provide local control and automation for distributed energy resources
 - Ability to leverage behind-the-meter assets
- Remote access to power equipment
 - Monitor device health
 - Aggregate Data





There is no Resiliency without Cybersecurity



Regarding Grid Modernization, to achieve DC/DMV climate, health & equity goals, a critical obstacle to collectively overcome in 12 months is ensuring cybersecurity competency at every stage and level to ensure integrated systems have a minimal combined attack surface, are closely monitored, and quickly recoverable.

