

Initiatives

State/Federal Coordination

Big Data

Advanced Grid

Smart Grid Annual Assessment

Resiliency

State/Federal Coordination

- ♦ Conducting Interview to gauge industry appetite for convening forum(s) that drive state/federal coordination on key topics (10/31)
- ♦ Completed EAC discussion to get additional ideas on topics to consider and areas that might drive success on such an effort (10/14)
- Goal is to complete recommendation based on feedback by the end of the year

Interview Questions

- Which state/federal boundary issues are most impactful to your organization/constituents? Why?
- ♦ Do you believe that it could be valuable to convene forums to help drive on or more states toward agreeing to principles as it relates to these topics and their impacts/interaction at the wholesale/retail levels?
- ♦ Do you know of any efforts that are currently driving toward formalizing coordination/consistency on any of the three topics (or other topics)?
- Would your organization be open to participating in such a forum?
- What might success look like if an entity undertook coordination of such an effort?



"Big Data"

- Vendor Capabilities
- Phasor Measurement Units
- ♦ DOE Sensors
- ♦ Utility Perspective
- ♦ Work Product
 - ♦ Recommendations to DOE



Immediately replace/repair equipment

from stock on hand in case of failure

Proactively replace aging equipment

Component failure

Outage restoration

Resiliency Services

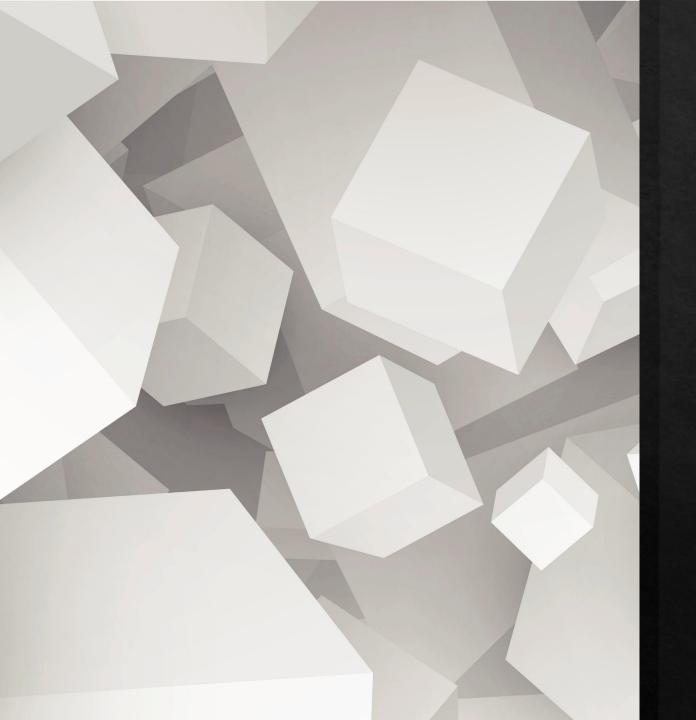
Equipment replacement

has no electricity until new parts are delivered

and installed. Potentially weeks or months.

Advanced Grid

- DOE performs an analysis (based on your spreadsheet approach), i.e., it includes doing the following:
- Determining the essential functional requirements (from your spreadsheet) and describing needed grid capabilities/systems and associated \$ under the following scenarios:
 - Traditional grid (i.e., power flows from central generators to customers)
 - Distributed grid (scenario A): electric utility owns assets and oversees sensing, control, coordination.
 - Distributed grid (scenario B): shared responsibility of grid ownership between utility and customer/3rd. parties (including microgrids) with a need to understand systems required for sensing, control, and coordination.
 - Scenario 3 but includes T/D coordination.



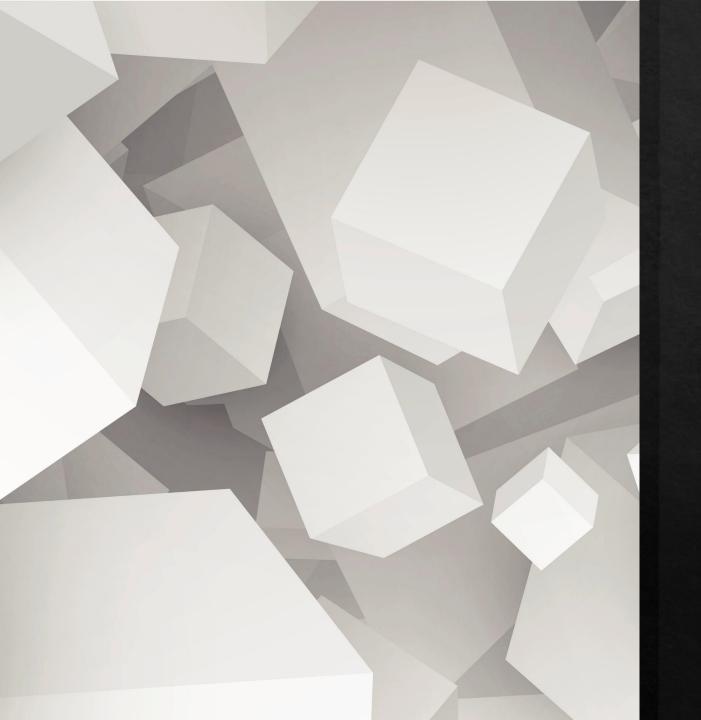
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Services

Resiliency



Resiliency?

♦ How should we tackle this?