

# **ComEd 2017 Assumptions for Western Sub-Regional RTEP**

**January 5, 2017** 



#### **Base Case Power Flow Model**

- ✓ ComEd provides updates to PJM for inclusion in the PJM 2022 RTEP model
- ✓ ComEd studies include:
  - 90/10 and 50/50 load levels, years 1-6 & 10
  - Loads consistent with PJM Load Forecast Report
    - 2022 summer 50/50 load of 22,935 MW (2016 forecast)
  - New generators included only if under construction or judged highly likely to enter construction in the next 2 years
  - Wind is not dispatched in peak cases
- ✓ ComEd detailed model is submitted to PJM/RF for inclusion in ERAG MMWG cases



## **Baseline Analysis**

- ✓ Both ComEd and PJM study our system to determine baseline reliability upgrades
  - Upgrades are driven by:
    - PJM criteria (Manual 14B)
    - ComEd FERC Form 715 criteria
    - NERC Planning Criteria
- ✓ ComEd works with PJM to analyze and validate results
- ✓ Potential violations are included in the PJM open window process
- √ For immediate need projects (< 3 years out) ComEd works
  with PJM to develop solutions
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- ✓ Proposed solutions are presented to TEAC or Sub-Regional RTEP and become baseline projects



# FERC Form 715 Planning Criteria

# ✓ ComEd Transmission Planning Criteria

- Double underground lines at 90/10 load
- Transient voltage recovery
- Voltage stability
- Included in FERC 715 filing
- Posted on PJM web site
- **✓** NERC TPL Standards



## **Supplemental Projects**

- ✓ A project that will typically impact transmission network flows or model:
  - Transmission System configuration changes due to new or expansion of existing distribution substations
  - New transmission customer connections
  - Infrastructure replacement (EOL/condition/obsolescence) resulting in increased capacity and or configuration changes; consistent with efficient asset management decisions.
  - NERC Alert mitigation projects
  - Wood pole replacement program
  - Reliability improvements driven by internal standards (installing breakers on autos, removing tertiary capacitors)
  - Projects to address potential generation retirements
  - Enhancing Resiliency
  - Environmental drivers, for example, oil removal in water crossings or near waterways-Cables/OCBs
  - Enhanced Functionality /operability
  - Employee and public Safety- deteriorating condition, old technology, clearances, material construction, etc.
- ✓ Reviewed at PJM TEAC or Sub-Regional RTEP meetings for stakeholder input