

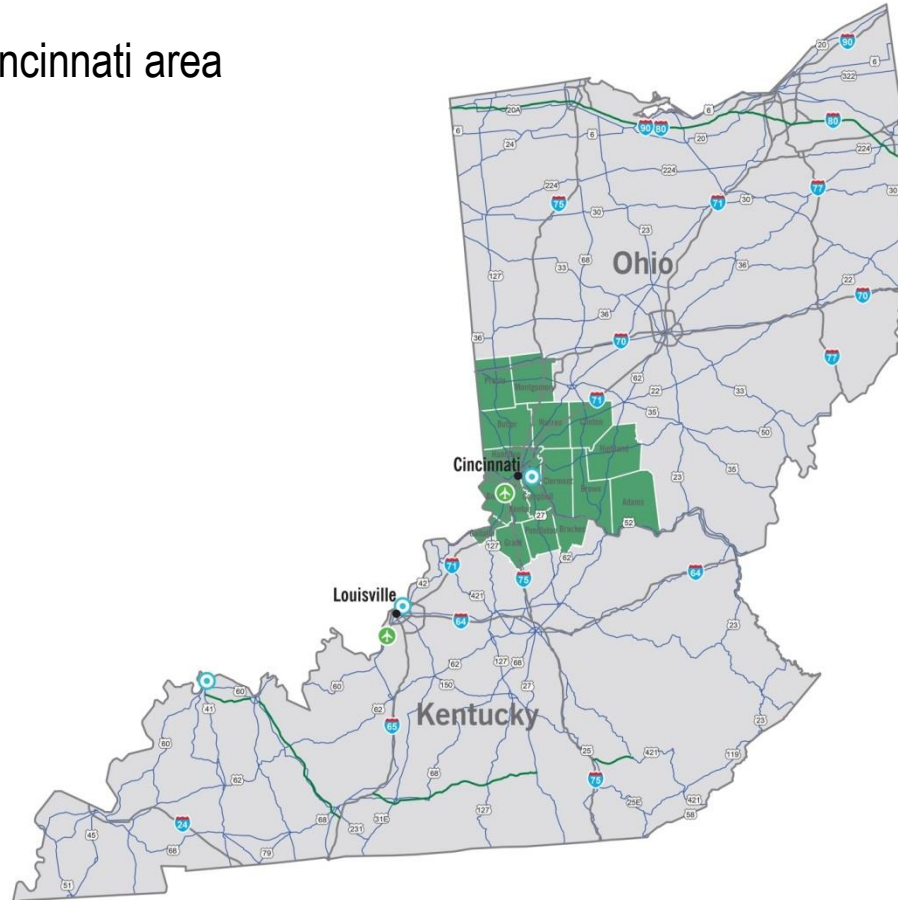


Duke Energy Ohio/Kentucky

2017 RTEP Planning Assumptions



- DEOK serves the greater Cincinnati area including northern Kentucky
- Transmission Facilities
 - 345 kV ~403 miles
 - 138 kV ~725 miles
- Subtransmission Facilities
 - 69 kV ~775 miles



- Load Flow Cases
 - DEOK uses the PJM RTEP and ERAG MMWG cases for transmission and 69 kV analysis

- RTEP Case
 - DEOK works with PJM to develop RTEP case
 - Verify topology, ratings, etc. are accurate

- MMWG Case
 - DEOK supports development of ERAG MMWG cases
 - Load scaled to latest 50/50 Forecast
 - Ratings seasonally adjusted

- 2017 RTEP Baseline Assessment
 - PJM performs analysis on DEOK area using RTEP case
 - Satisfies NERC reliability standards
 - DEOK validates analysis and coordinates with PJM to identify baseline upgrades
 - Upgrades are presented to the Sub-regional RTEP Committee and/or the TEAC for stakeholder input

- Supplemental Projects
 - Aging infrastructure
 - Operational flexibility
 - Infrastructure resilience
 - Customer service
 - DEOK Transmission Planning Criteria
 - Filed under FERC Form 715
 - Available on PJM website

- Projects are presented at SRRTEP meetings and TEAC meetings for stakeholder input



