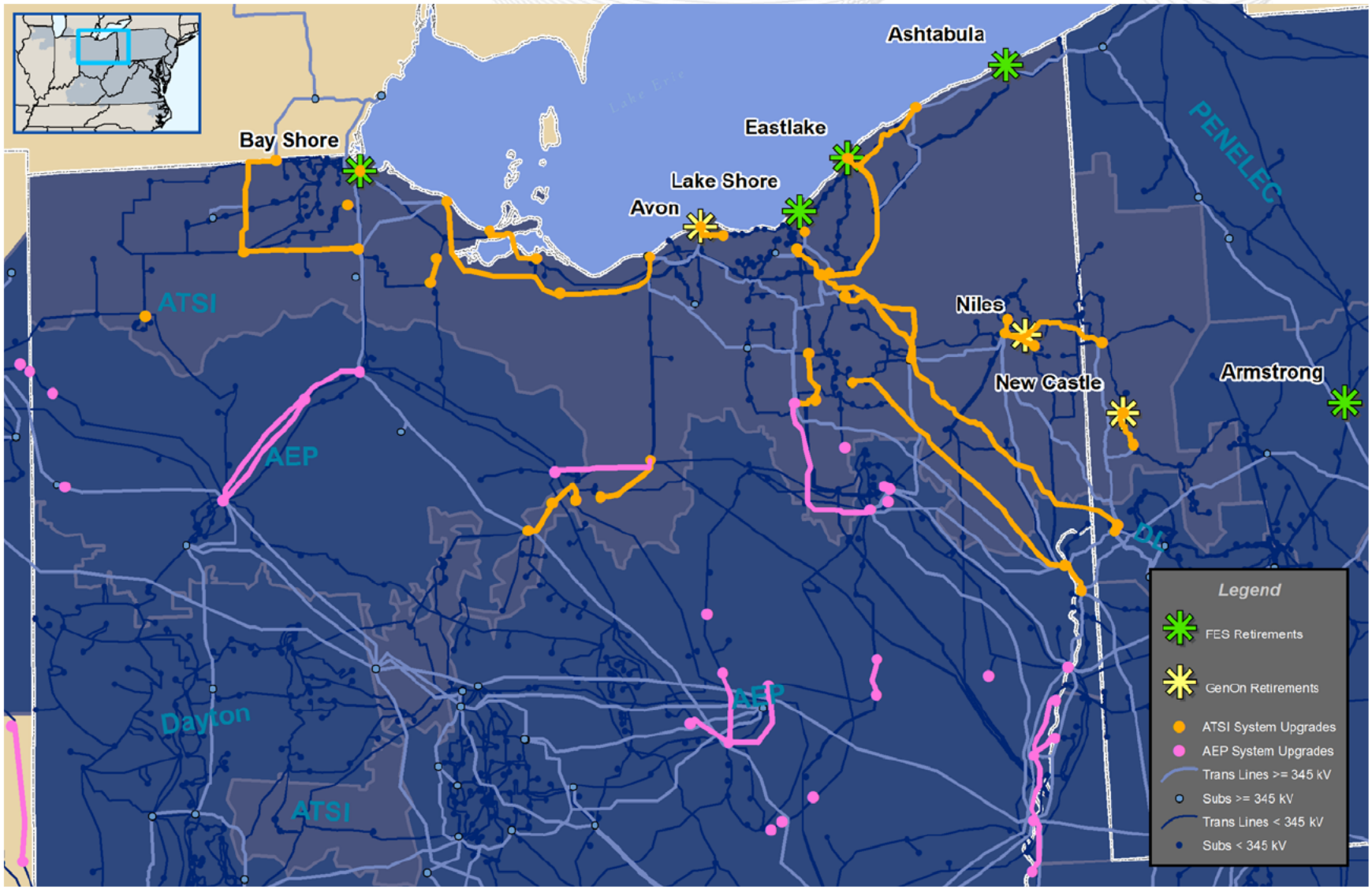
LDA Evaluation – Cleveland Area

PJM Planning Committee
8/9/2012

LDA Analysis – Previous Scenarios & Sensitivities Considered

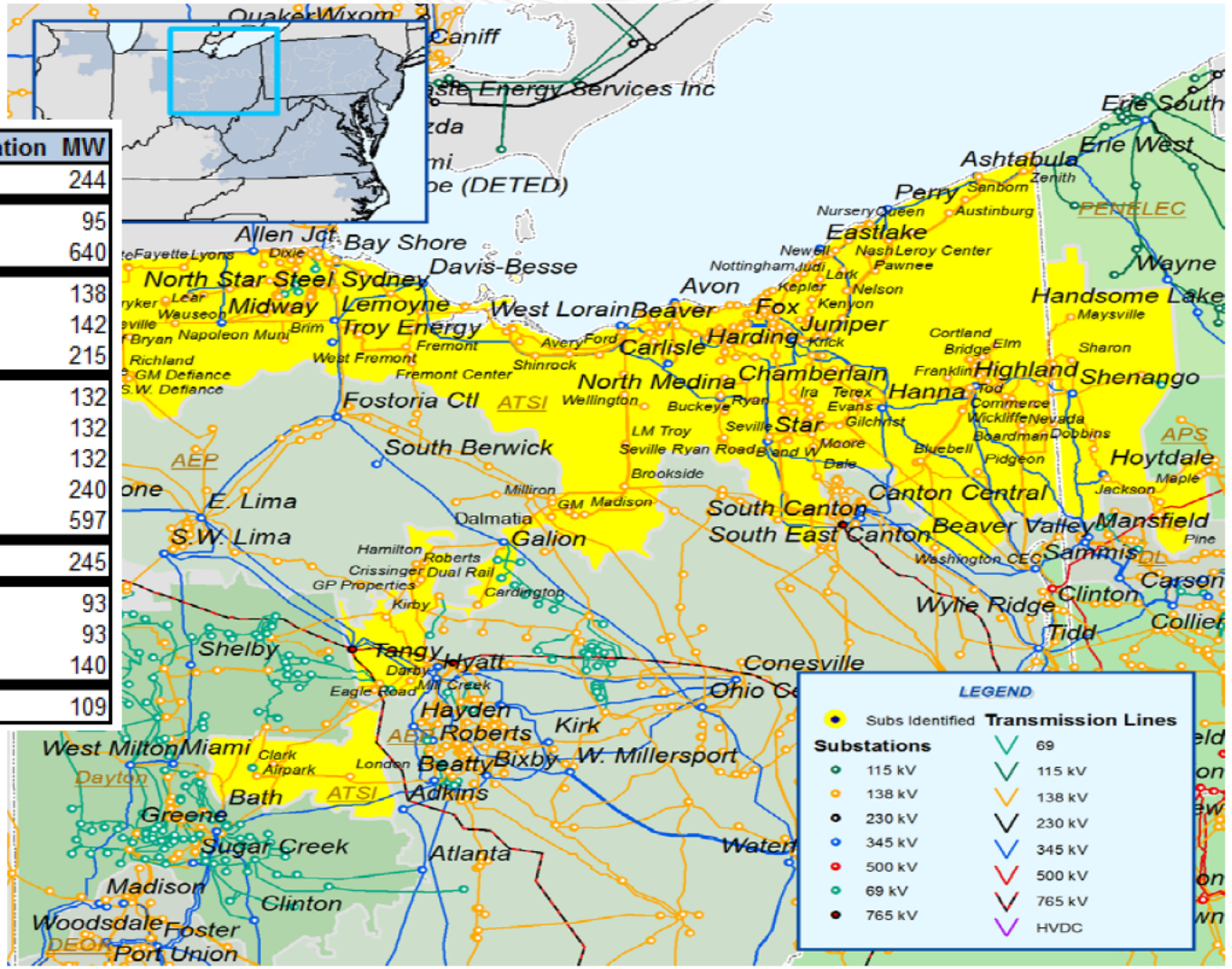
- Existing ATSI LDA
- Cleveland Reactive Operational Interface
- Greater Cleveland LDA
- South Canton LDA

Deactivation Notifications & Associated Reinforcements

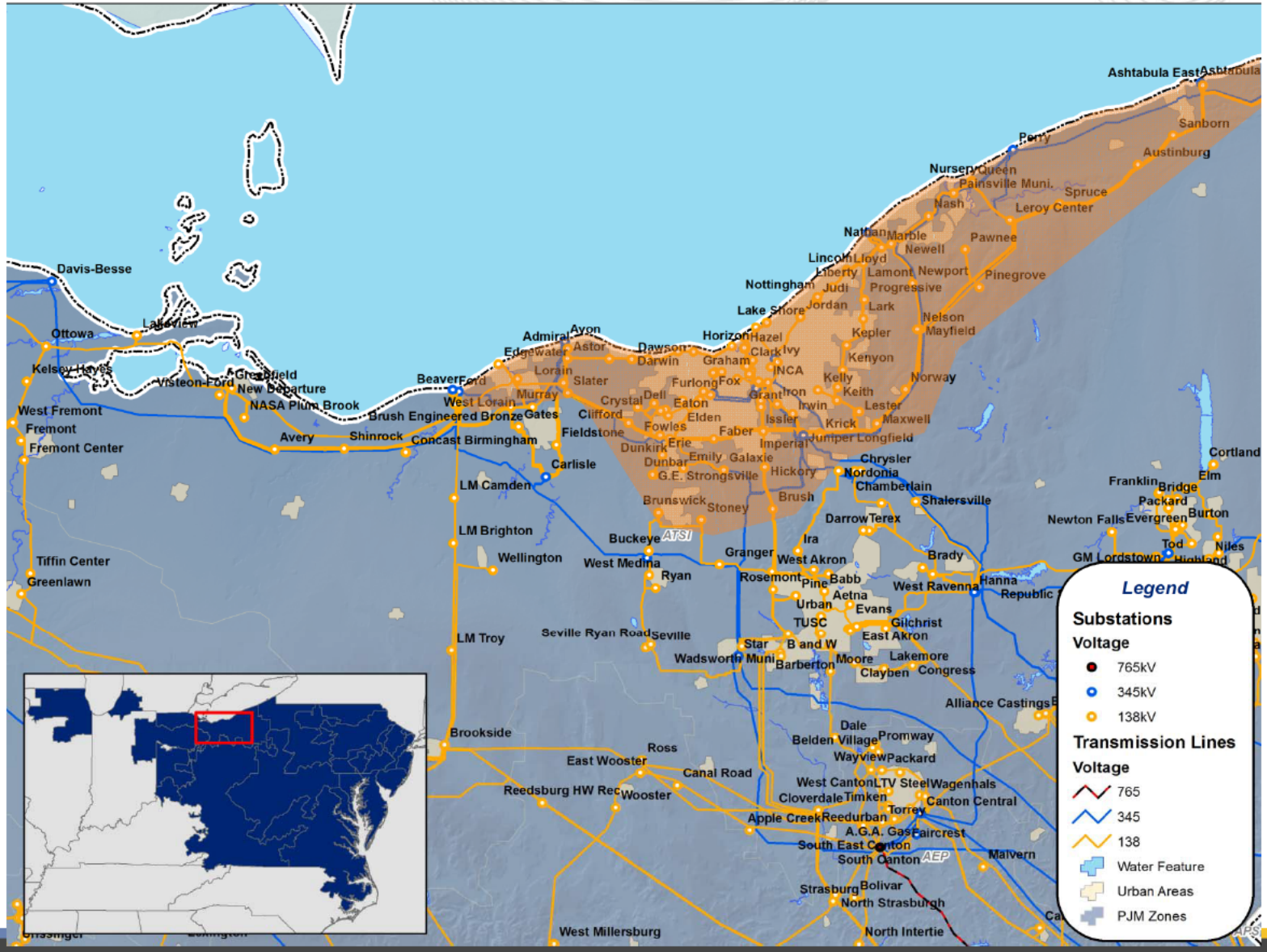


Existing ASTI LDA

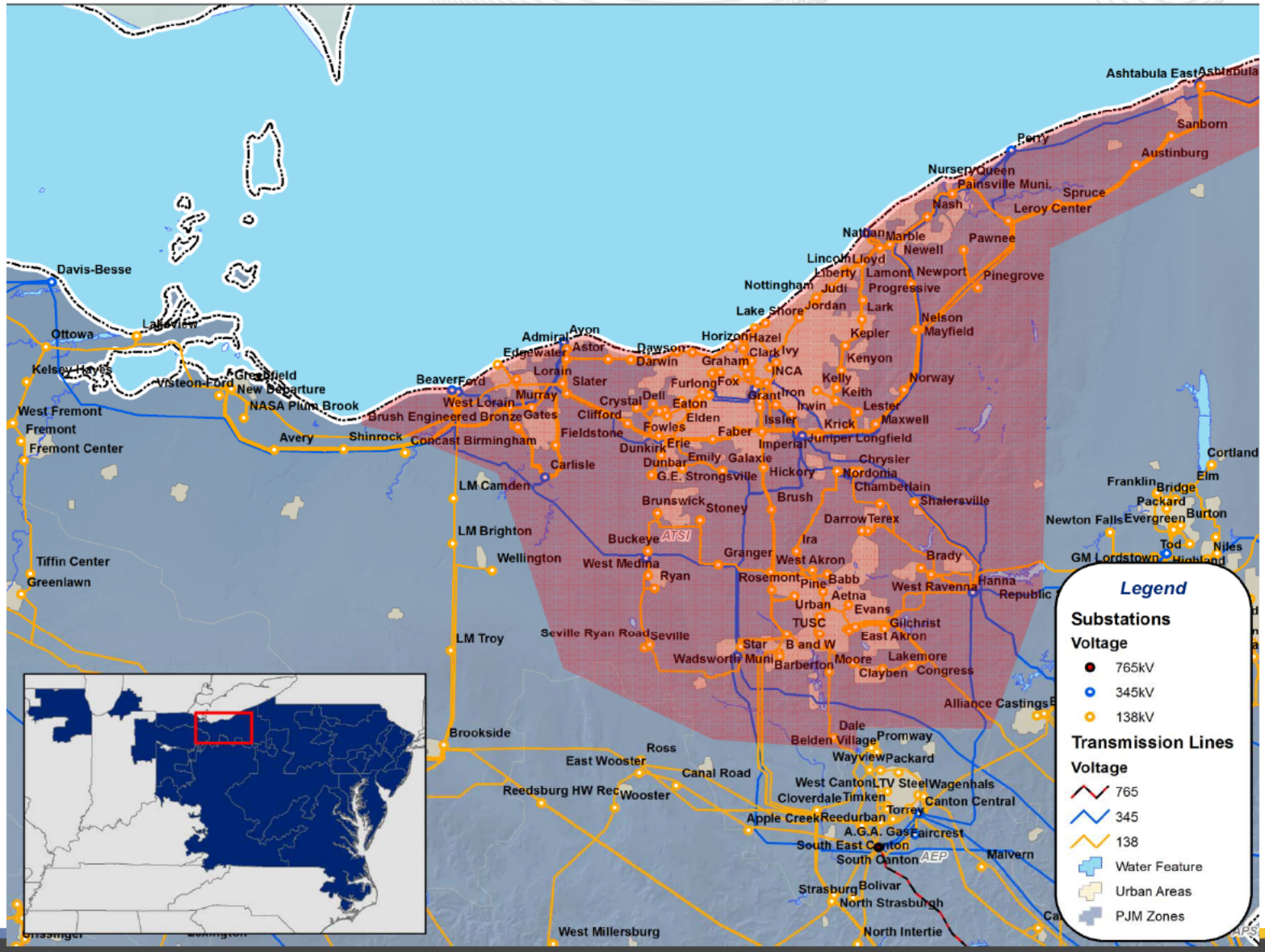
Deactivation Notification	MW
Ashtabula 5	244
Avon Lake 7	95
Avon Lake 9	640
Bay Shore 2	138
Bay Shore 3	142
Bay Shore 4	215
Eastlake 1	132
Eastlake 2	132
Eastlake 3	132
Eastlake 4	240
Eastlake 5	597
Lake Shore 18	245
New Castle 3	93
New Castle 4	93
New Castle 5	140
Niles 1	109



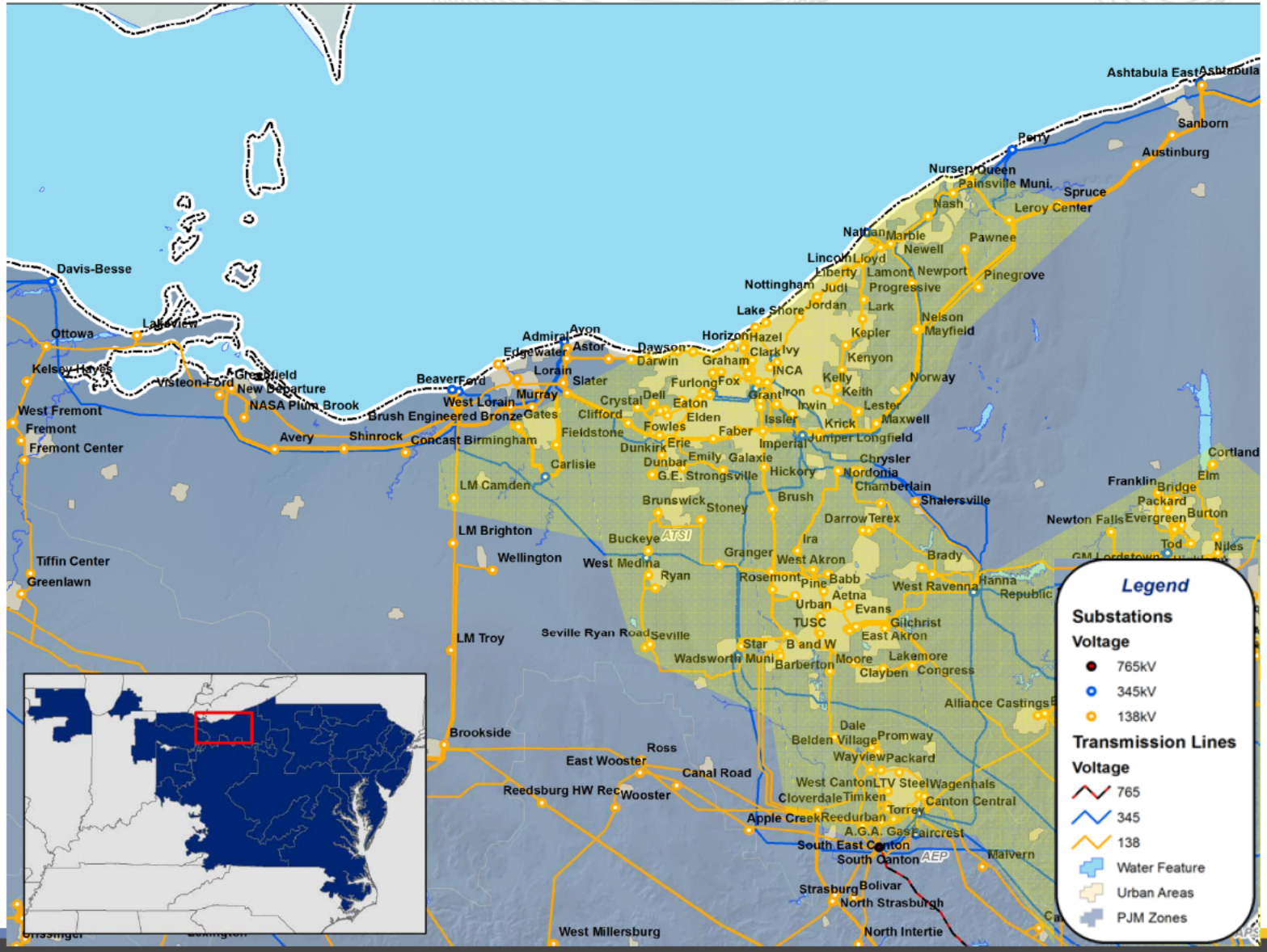
Approximate Cleveland Reactive Operational Interface



Greater Cleveland LDA



South Canton DFAX LDA



- Load buses and generation buses for each LDA posted to August PC materials on PJM.com

	Load	CETO
Existing ATSI	14,299	5,460
Reactive Operational Interface	4,973	3,850
Greater Cleveland	7,396	6,060
S. Canton	7,960	5,920

- Performed Load Deliverability thermal and voltage tests

Voltage	CETO (MW)	CETL / CETO
Existing ATSI	5460	> 115%
Reactive Operational Interface	3850	> 115%
Great Cleveland LDA	6060	> 115%
South Canton LDA	5920	> 115%

Thermal	CETO (MW)	CETL / CETO
Existing ATSI	5460	> 115%
Reactive Operational Interface	3850	103.61%
Great Cleveland LDA	6060	103.68%
South Canton LDA	5920	105.25%

- Performance
  - None of the LDAs are voltage limited under current assumptions
  - First thermal limit is < 115% of CETO for the three potential LDAs

- Key Generation
  - Perry (1260 MW)
  - South Canton DFAX LDA doesn't include Perry

Conclusion

- The Reactive Operational Interface LDA is consistent with PJM Operations

- Pursue establishment of a new LDA that is consistent with the Reactive Operational Interface LDA
  - Committee review
  - PJM Manual changes
  - PJM Agreements (RAA, etc.)