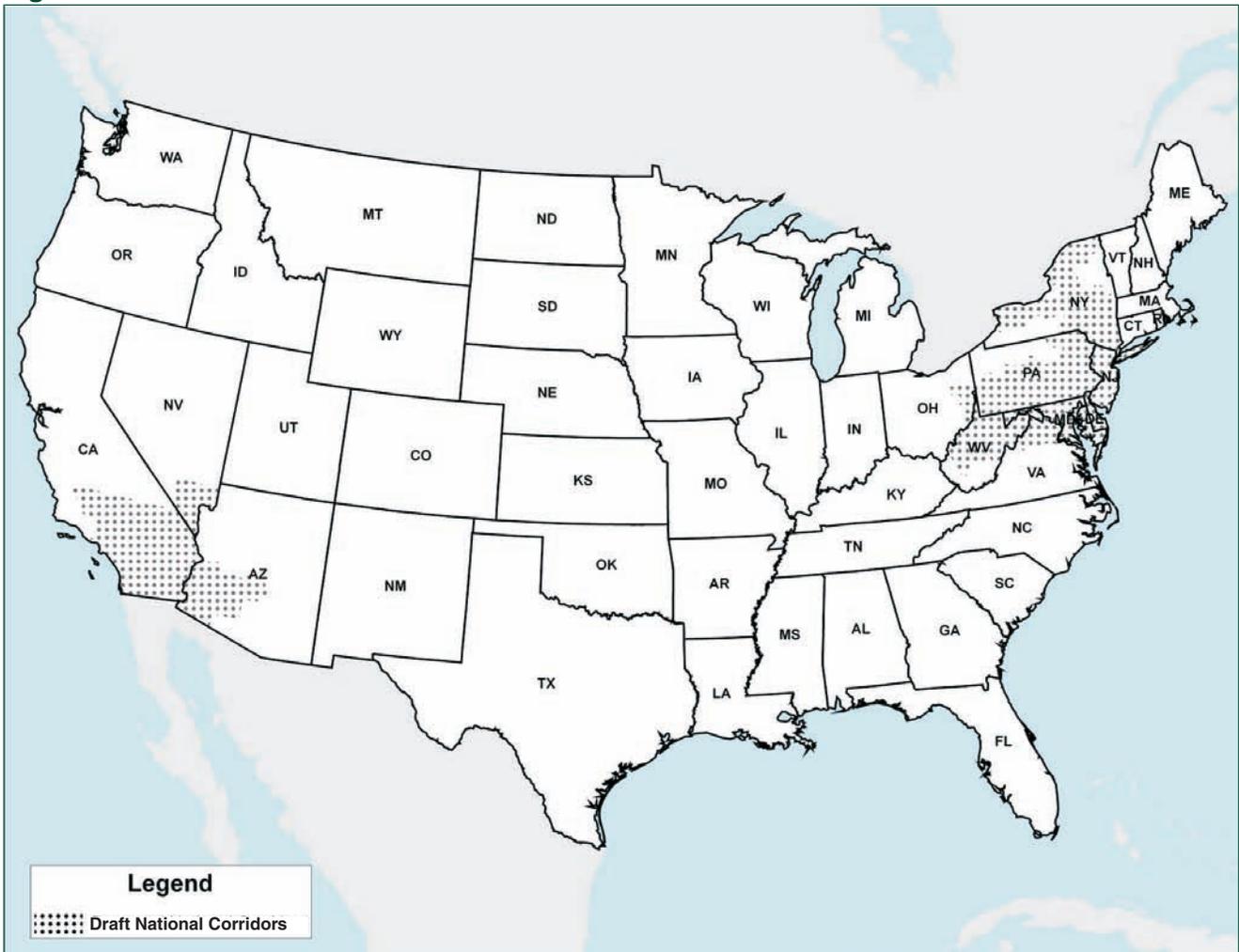
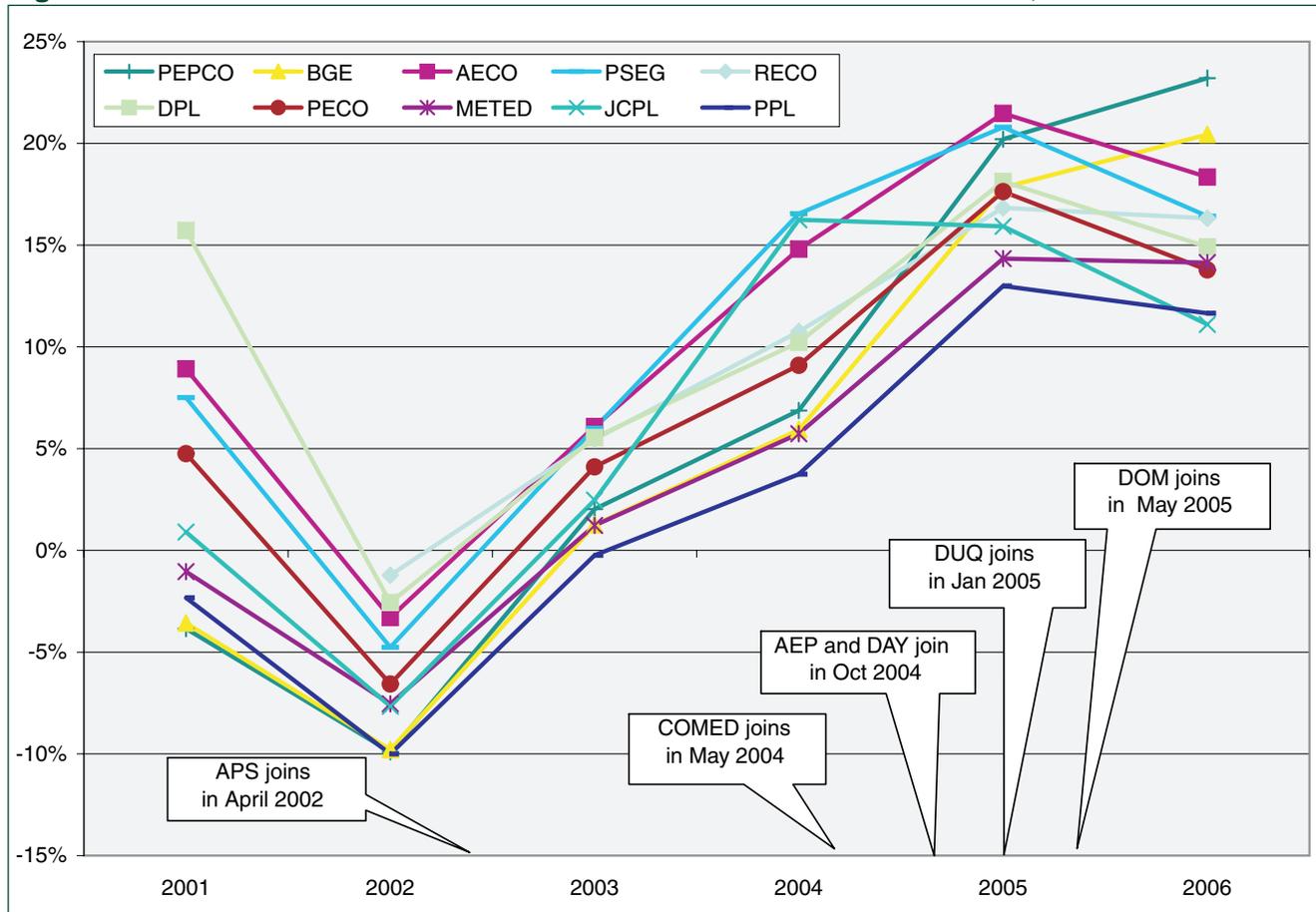


**Figure I-1. Draft Mid-Atlantic Area and Southwest Area National Corridors**



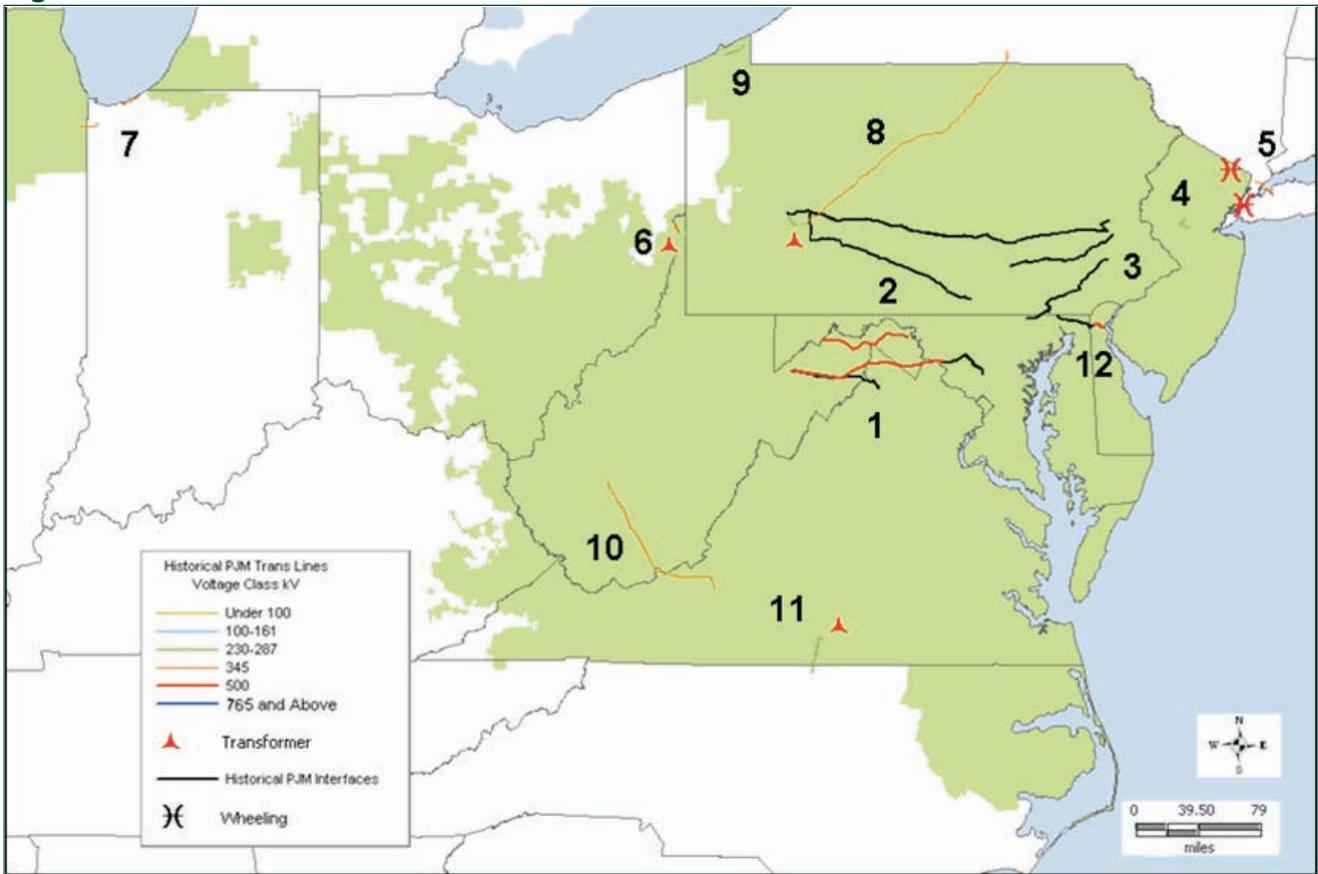
Source: U.S. Department of Energy, 2007.

**Figure VII-1. LMP Differential between Eastern PJM Utilities and PENELEC, 2001-2006**



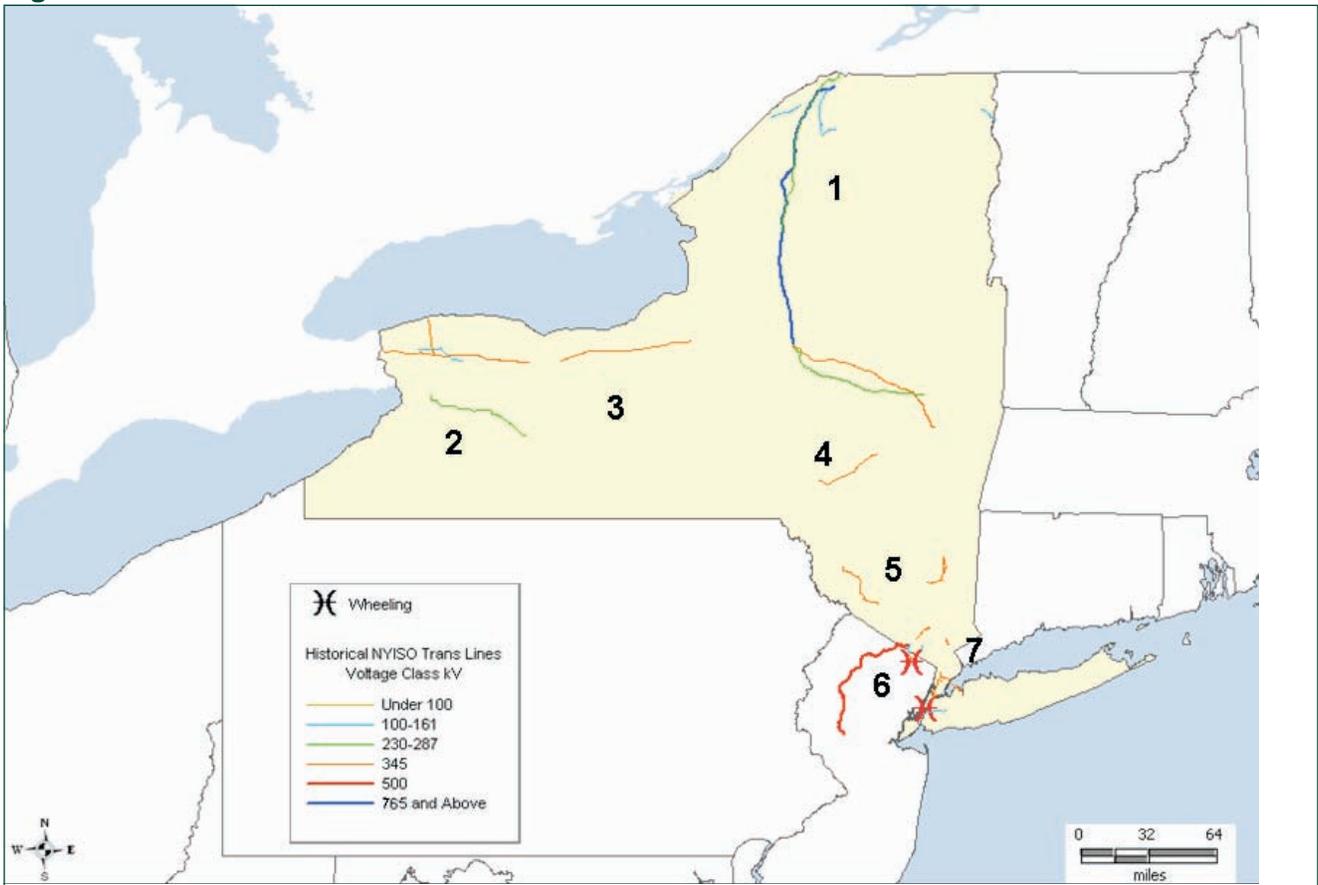
Data source: PJM.

Figure VIII-1. Historical Constraints in PJM



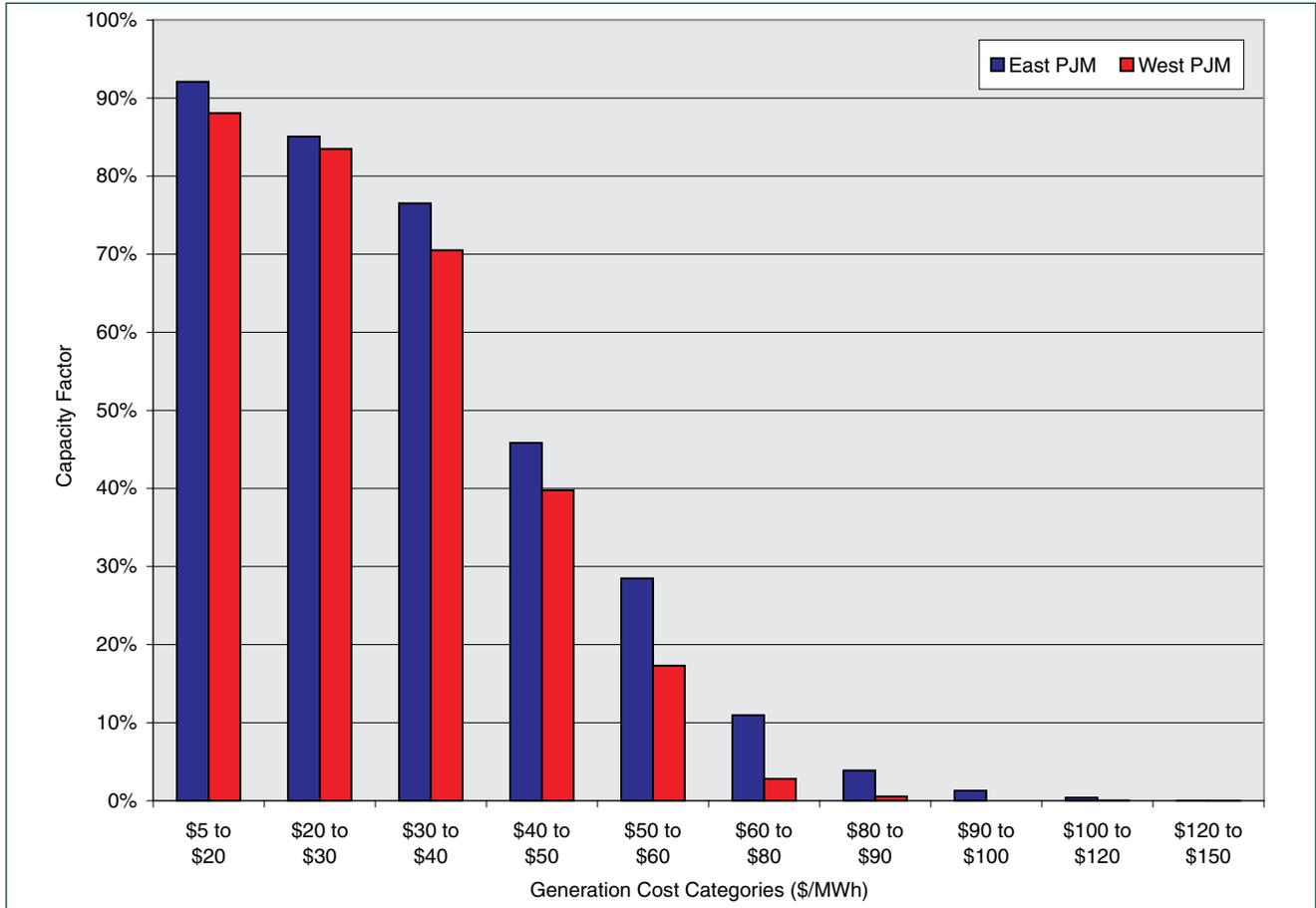
Source: Identified by others in non-DOE studies; summarized in DOE Congestion Study (2006).

**Figure VIII-2. Historical Constraints in New York State**



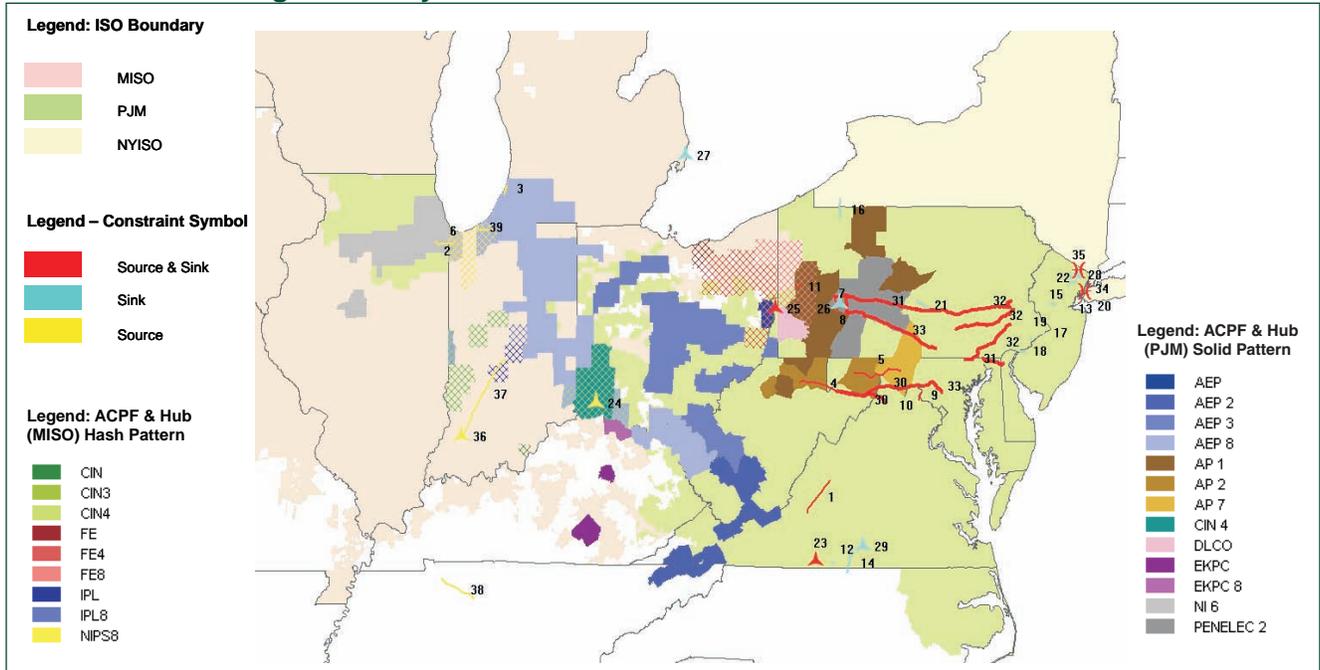
Source: Identified by others in non-DOE studies; summarized in DOE Congestion Study (2006).

**Figure VIII-3. Capacity Factor by Cost Class of Generation Capacity, Western PJM and Eastern PJM**



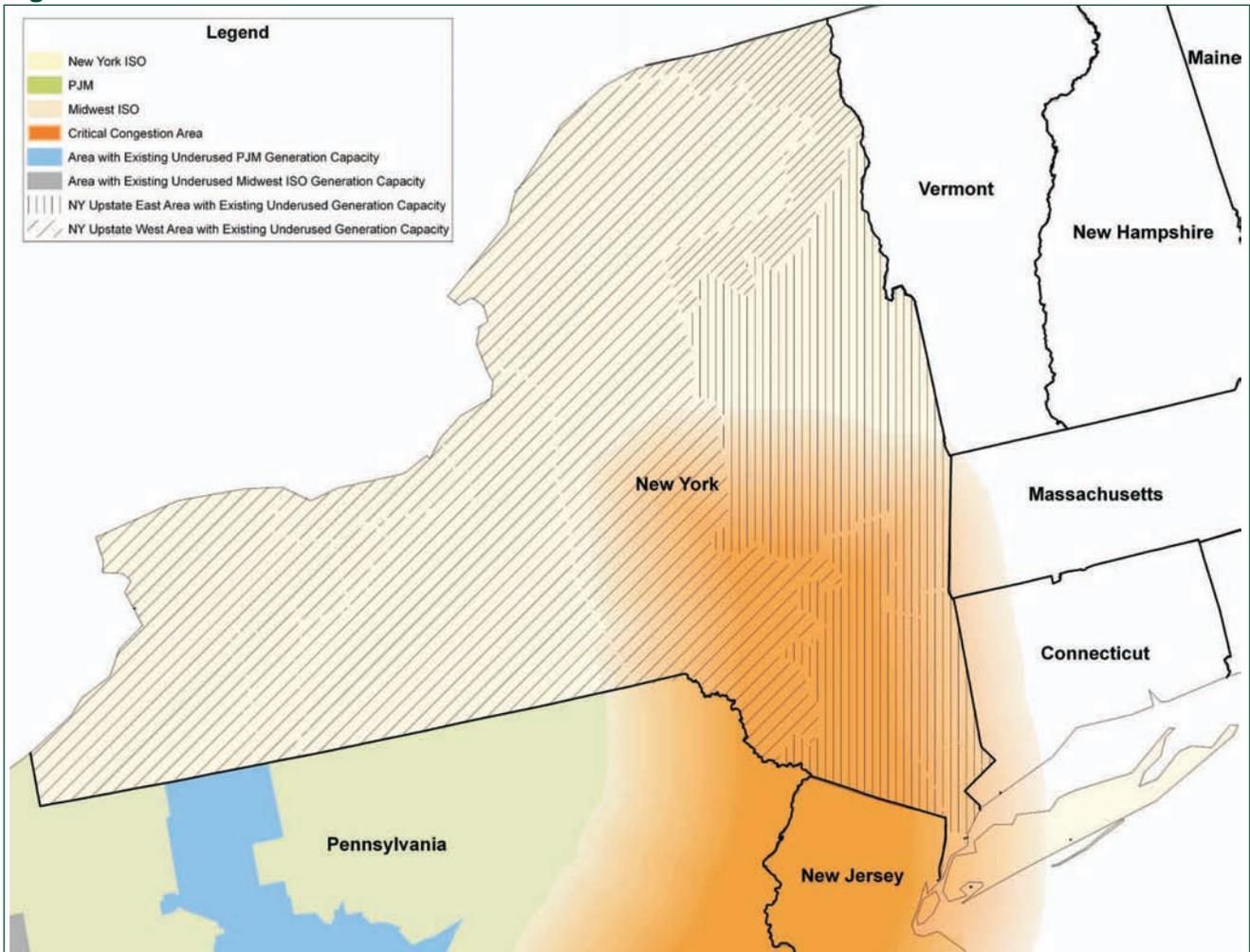
Sources: PJM data, DOE Congestion Study projections for 2008.

**Figure VIII-4. Areas with Available Lower-Cost Generation in PJM and MISO and Transmission Constraints Limiting Electricity Transfers to Eastern PJM Load Centers**



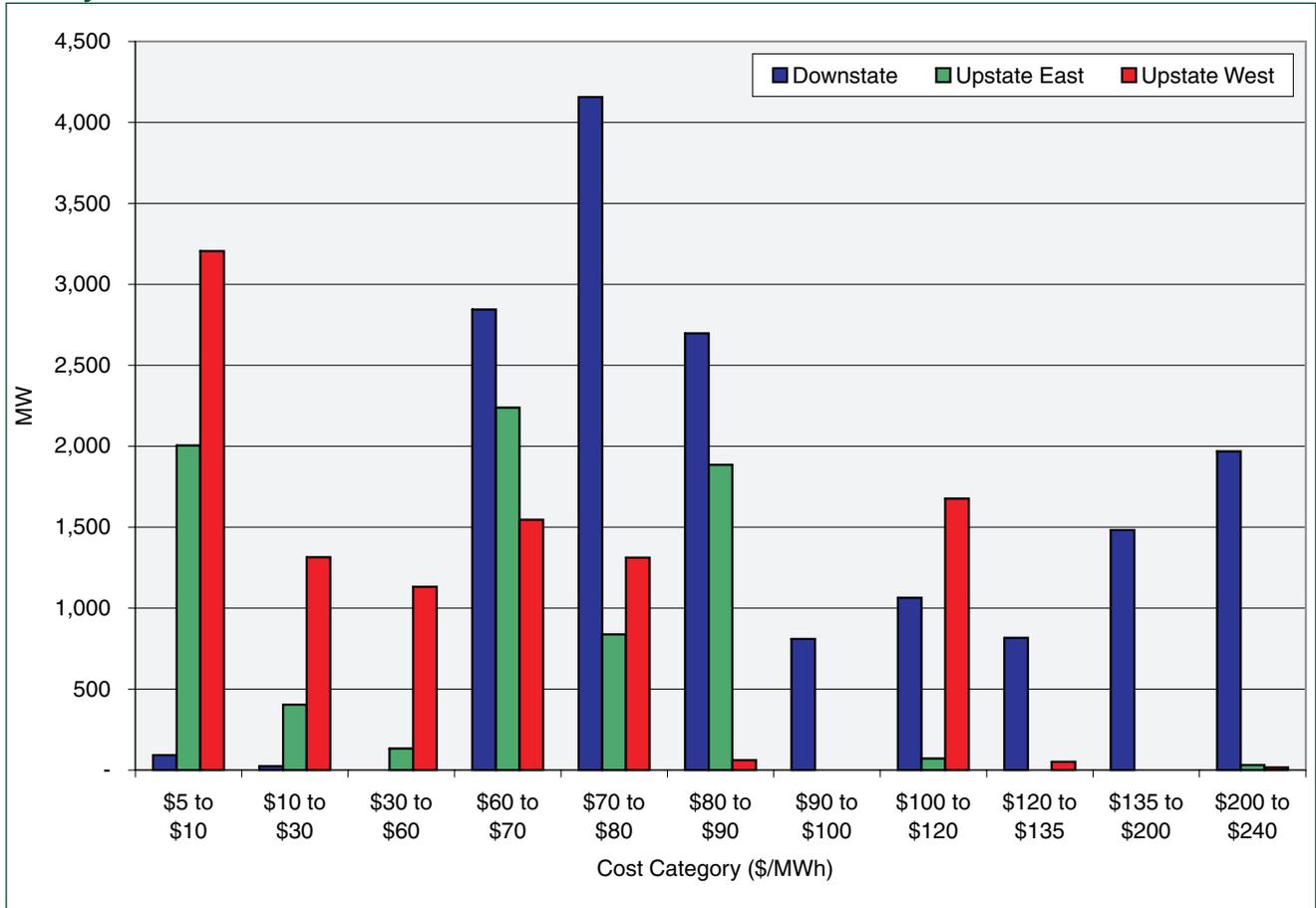
Data source: PJM.

**Figure VIII-5. Areas in New York with Available Lower-Cost Generation**



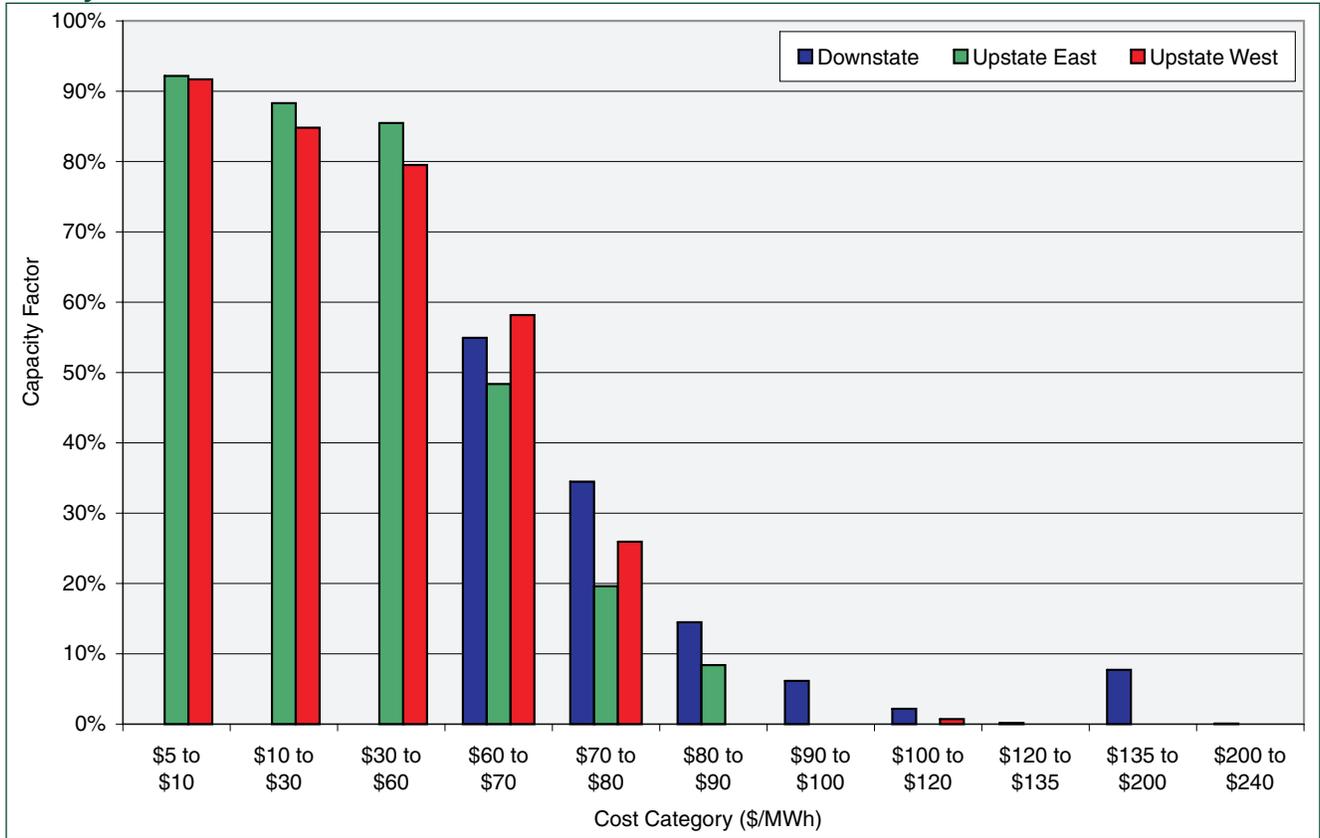
Data source: NYISO.

**Figure VIII-6. New York State Installed Thermal Capacity by Region and by Production Cost Class**



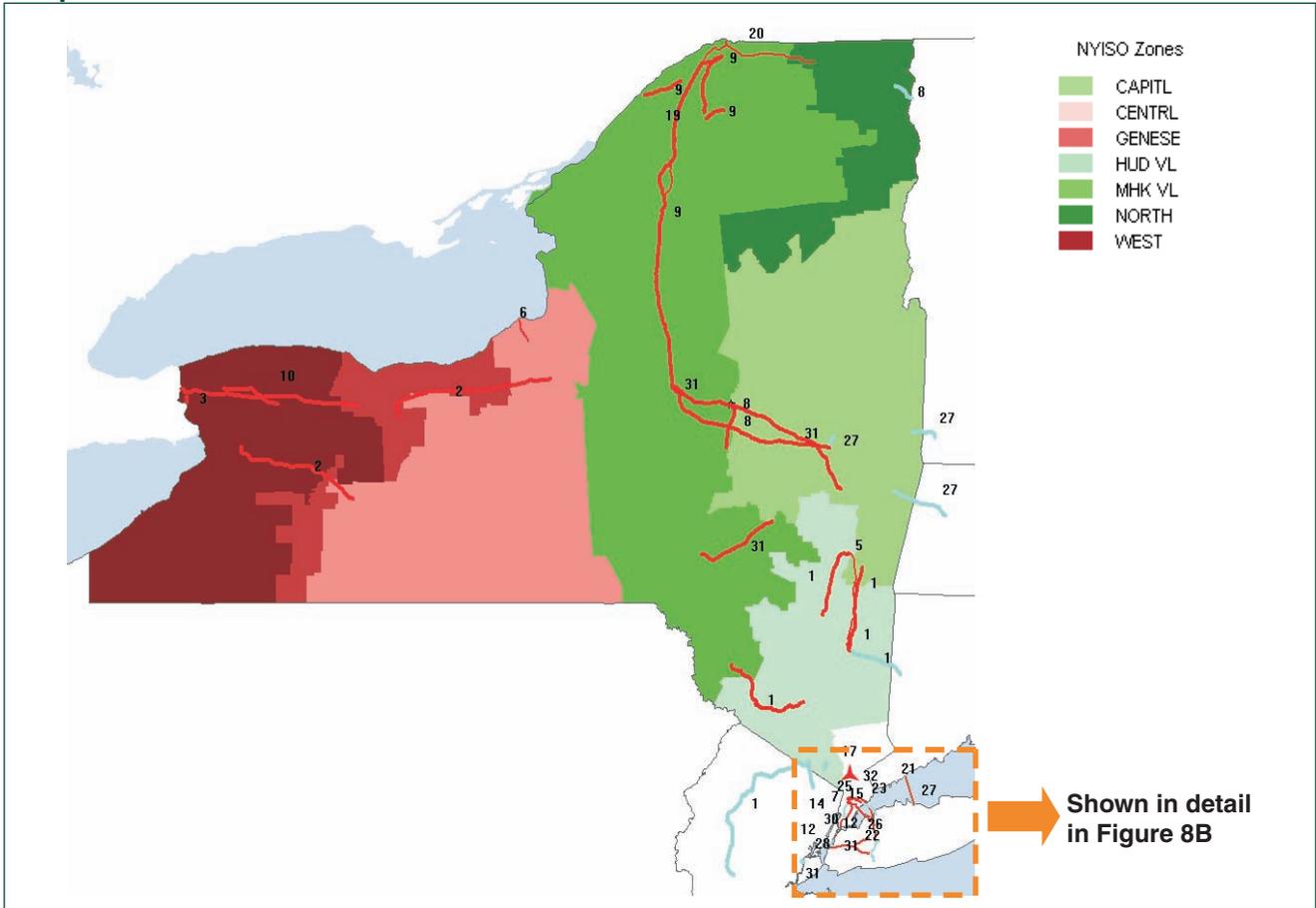
Source: Input data for DOE Congestion Study, 2008 base case.

**Figure VIII-7. Capacity Factor for New York State Thermal Units, by Region and by Production Cost Class**



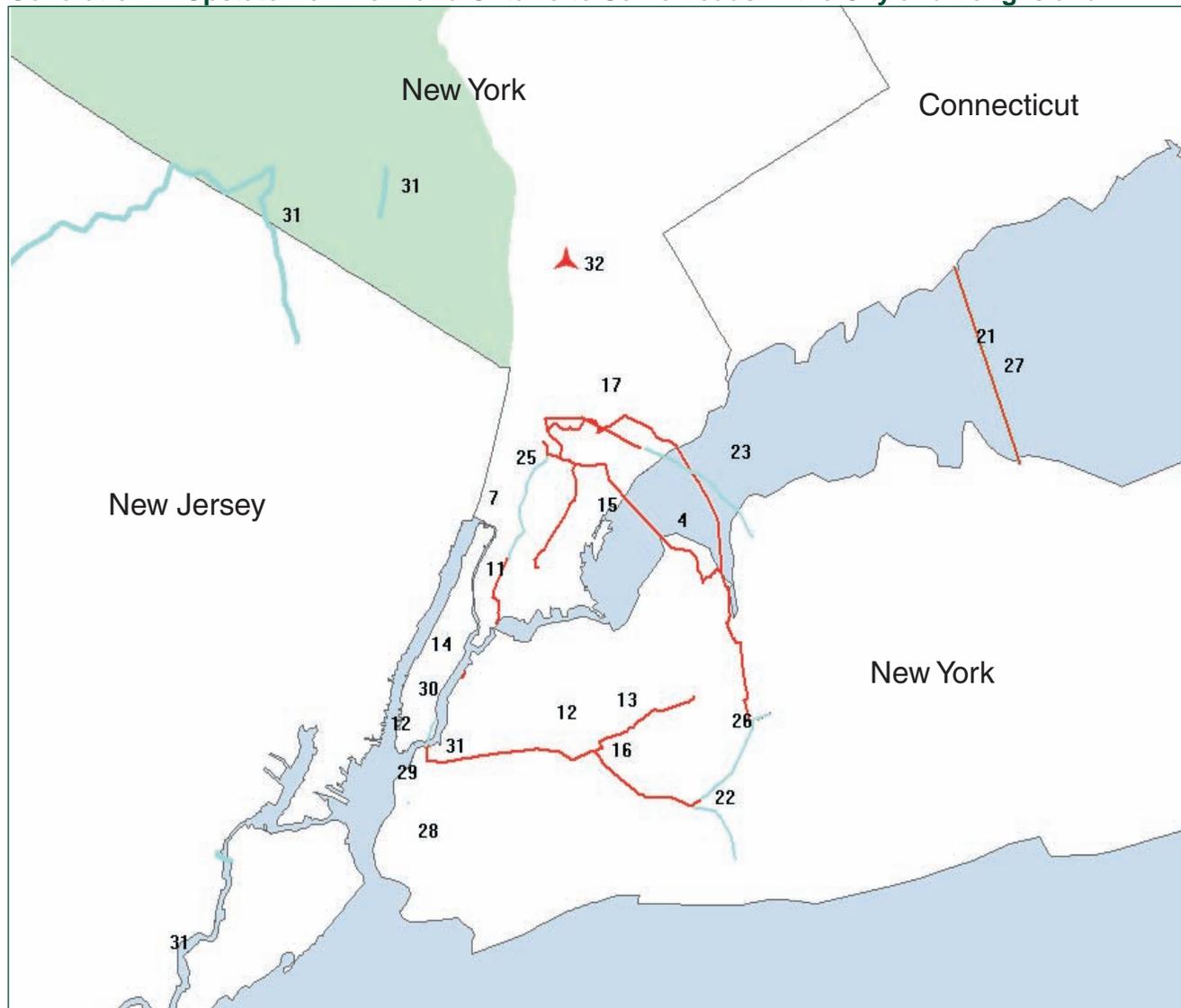
Source: DOE Congestion Study, 2008 base case projections.

**Figure VIII-8A. Transmission Constraints Limiting the Ability to Use Generation in Upstate New York and Ontario to Serve Downstate New York Loads**



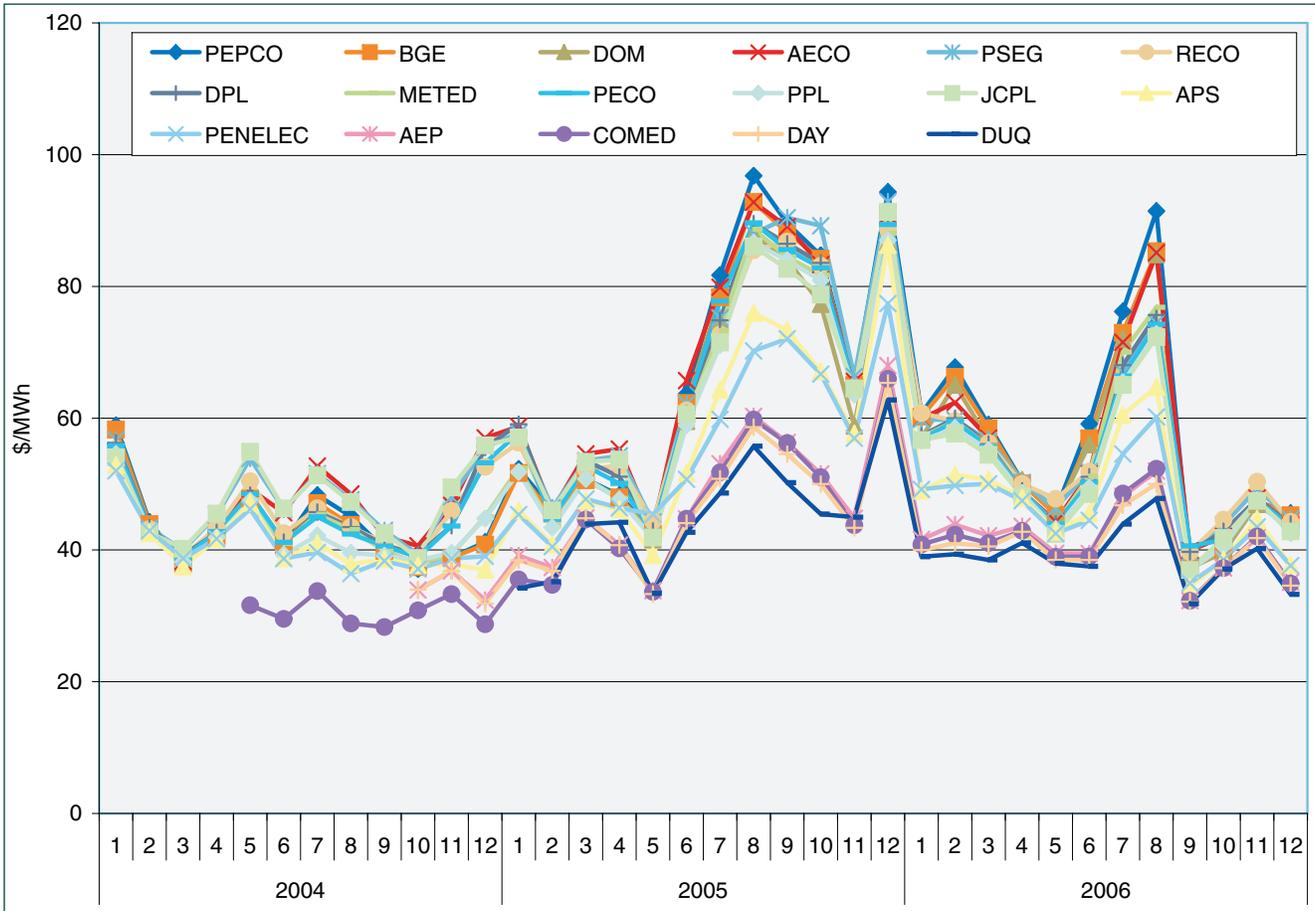
Source: DOE Congestion Study, 2008 base case projections.

**Figure VIII-8B. Transmission Constraints in New York City Area Limiting the Ability to Use Generation in Upstate New York and Ontario to Serve Loads in the City and Long Island**



Source: DOE Congestion Study, 2008 base case projections.

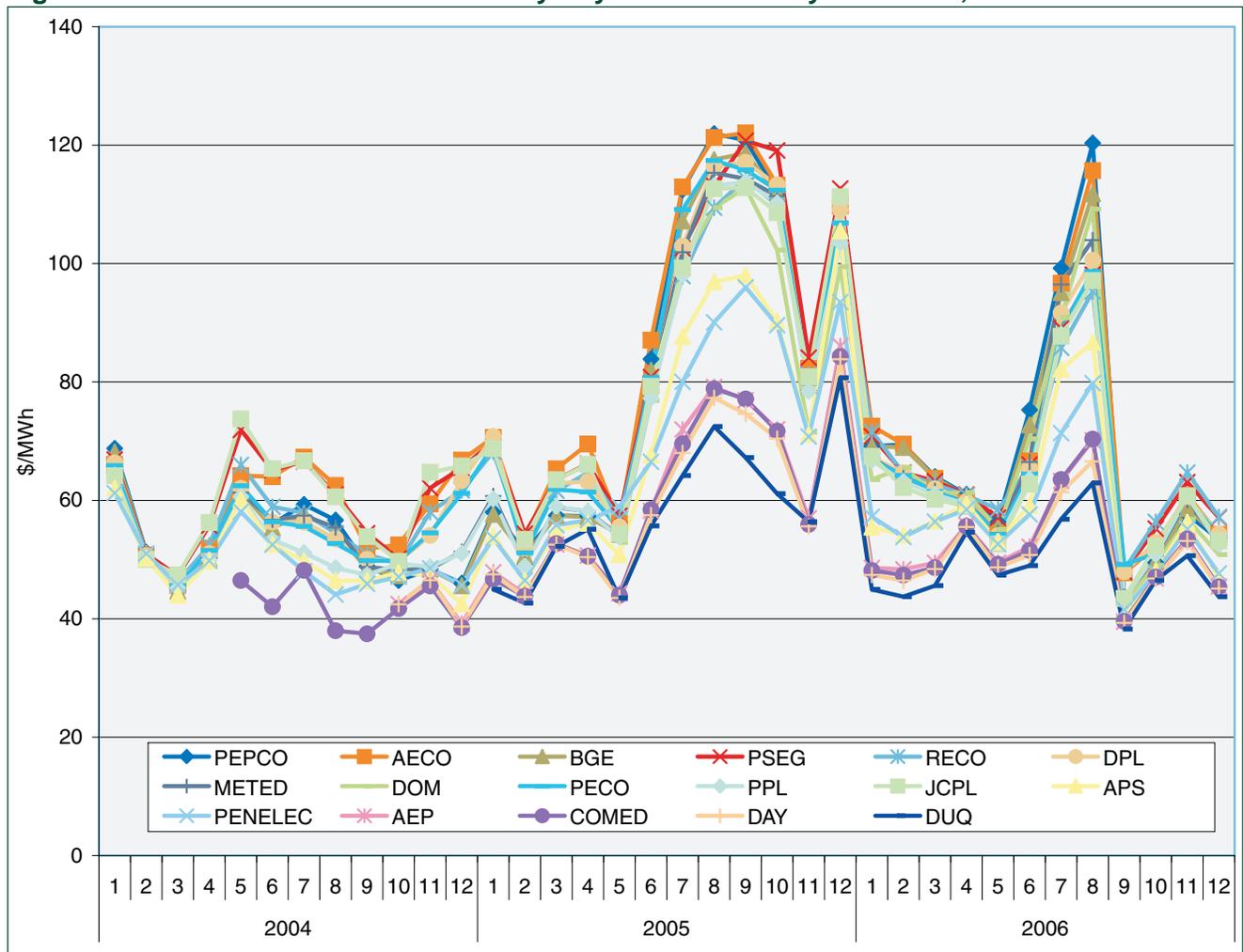
**Figure VIII-9. Historical Round-the-Clock Monthly Day-Ahead LMPs in PJM, by Zone, 2004-2006**



Note: The incomplete price data shown in 2004 and 2005 are the result of new members joining the PJM market: Commonwealth Edison joined in May 2004, American Electric Power and Dayton Power and Light joined in October 2004, Duquesne joined in January 2005, and Dominion joined in May 2005.

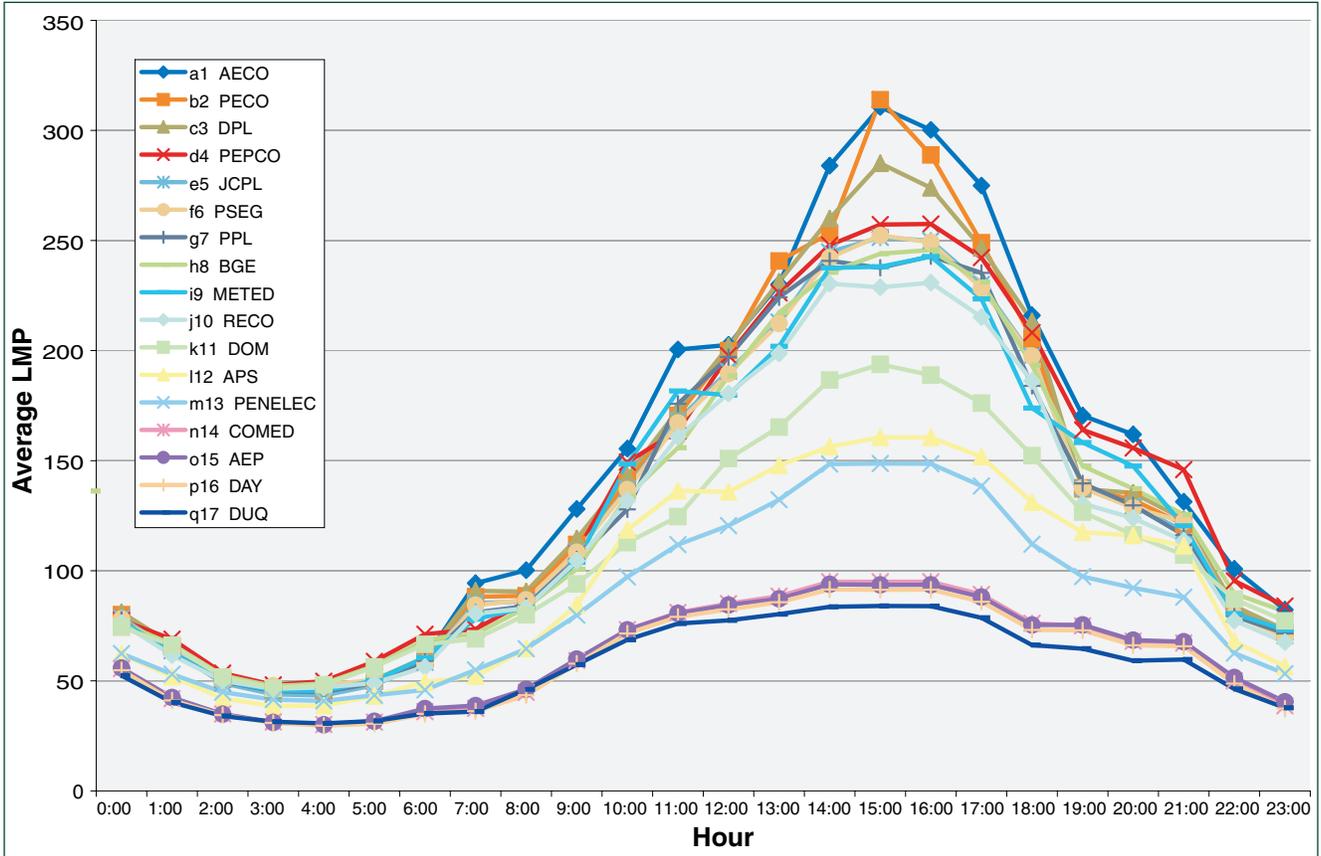
Data source: PJM.

**Figure VIII-10. Historical On-Peak Monthly Day-Ahead LMPs by PJM Zone, 2004-2006**



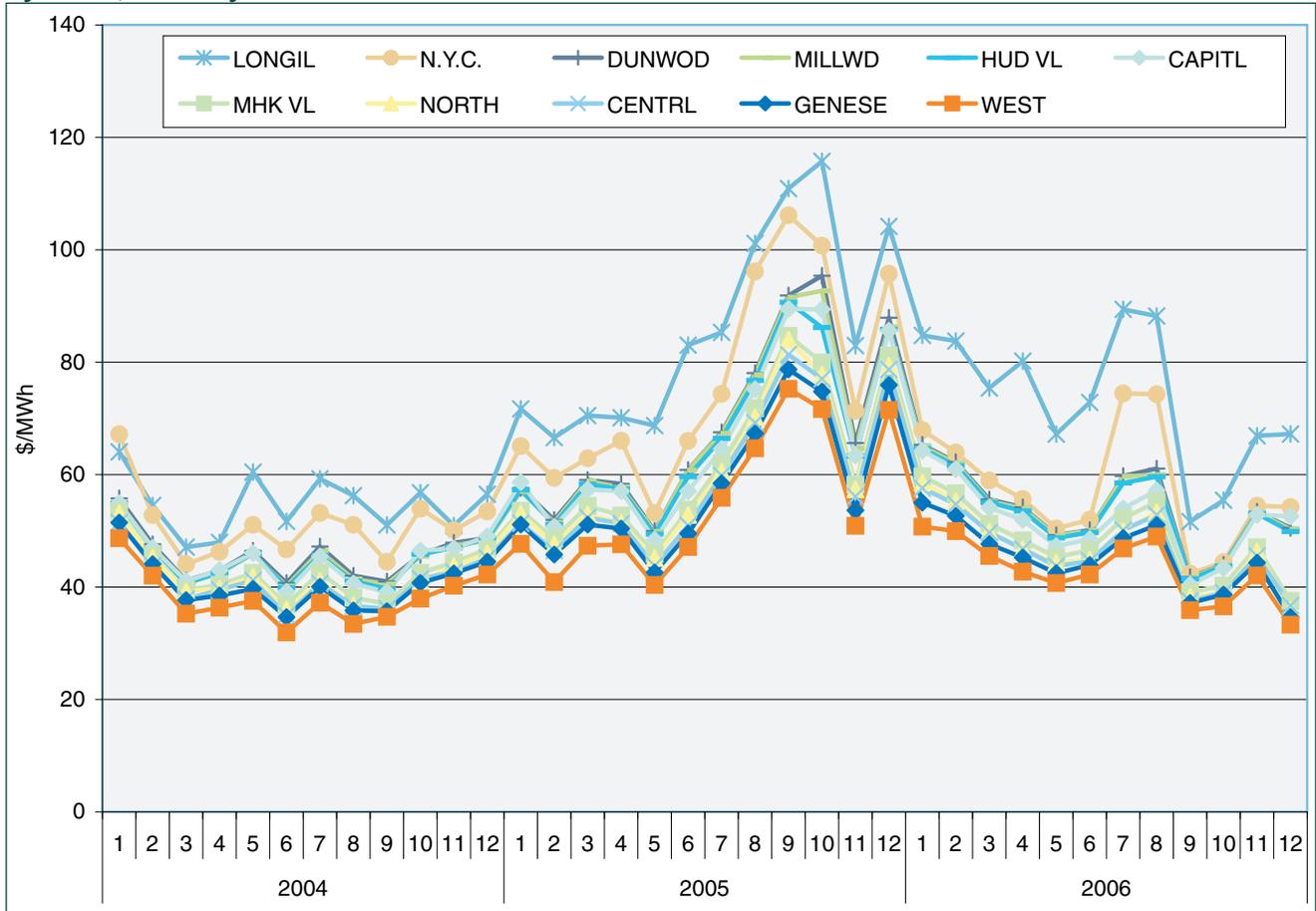
Data source: PJM.

Figure VIII-11. Day-Ahead LMPs by PJM Zone on August 8, 2005



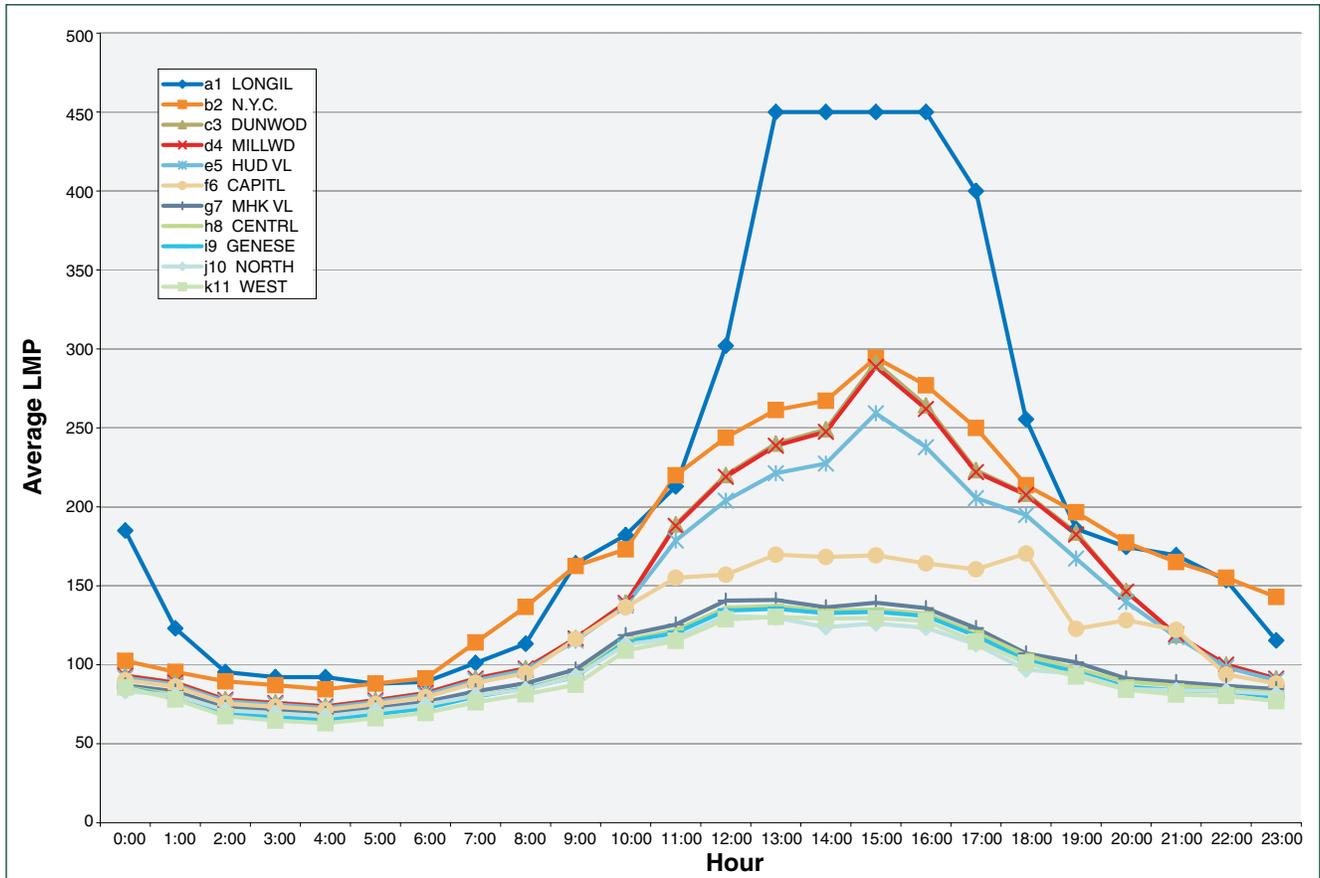
Data source: PJM.

**Figure VIII-12. Historical Round-the-Clock Monthly Day-Ahead LBMPs in New York ISO, by Zone, January 2004-December 2006**



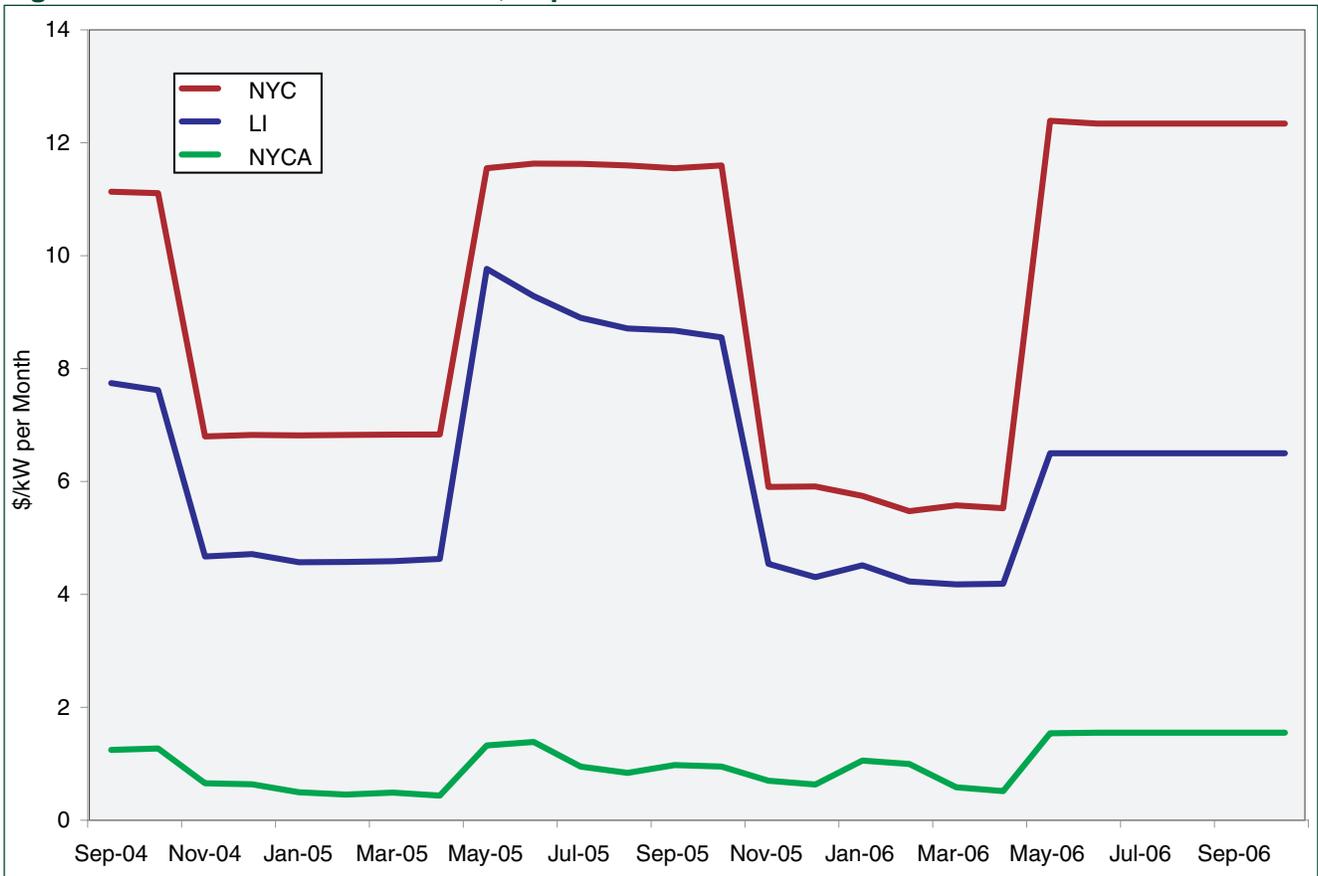
Data source: NYISO.

Figure VIII-13. Day-Ahead LBMPs in New York ISO, by Zone on August 5, 2005



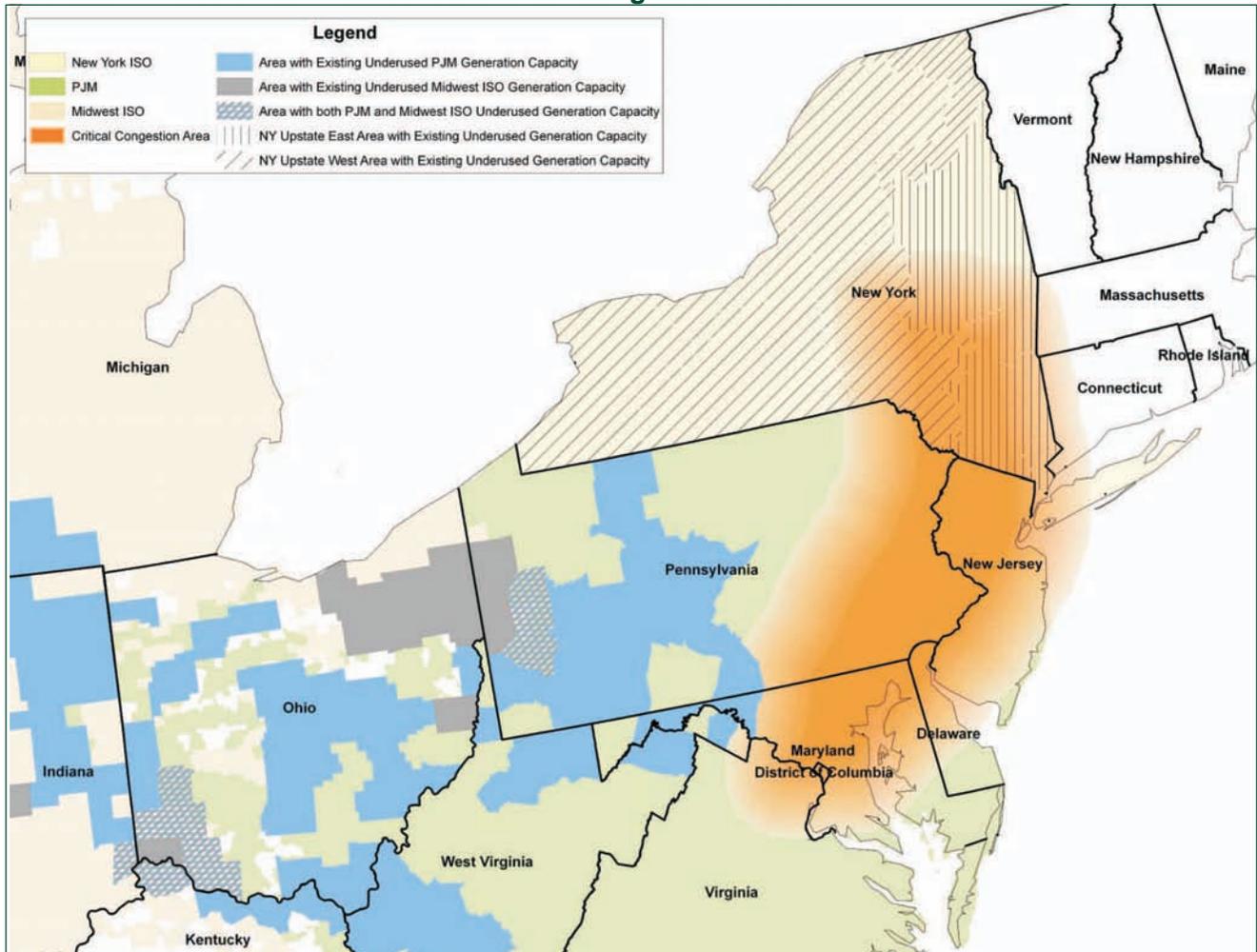
Data source: NYISO.

Figure VIII-14. UCAP Auction Prices, September 2004-October 2006



Data source: NYISO.

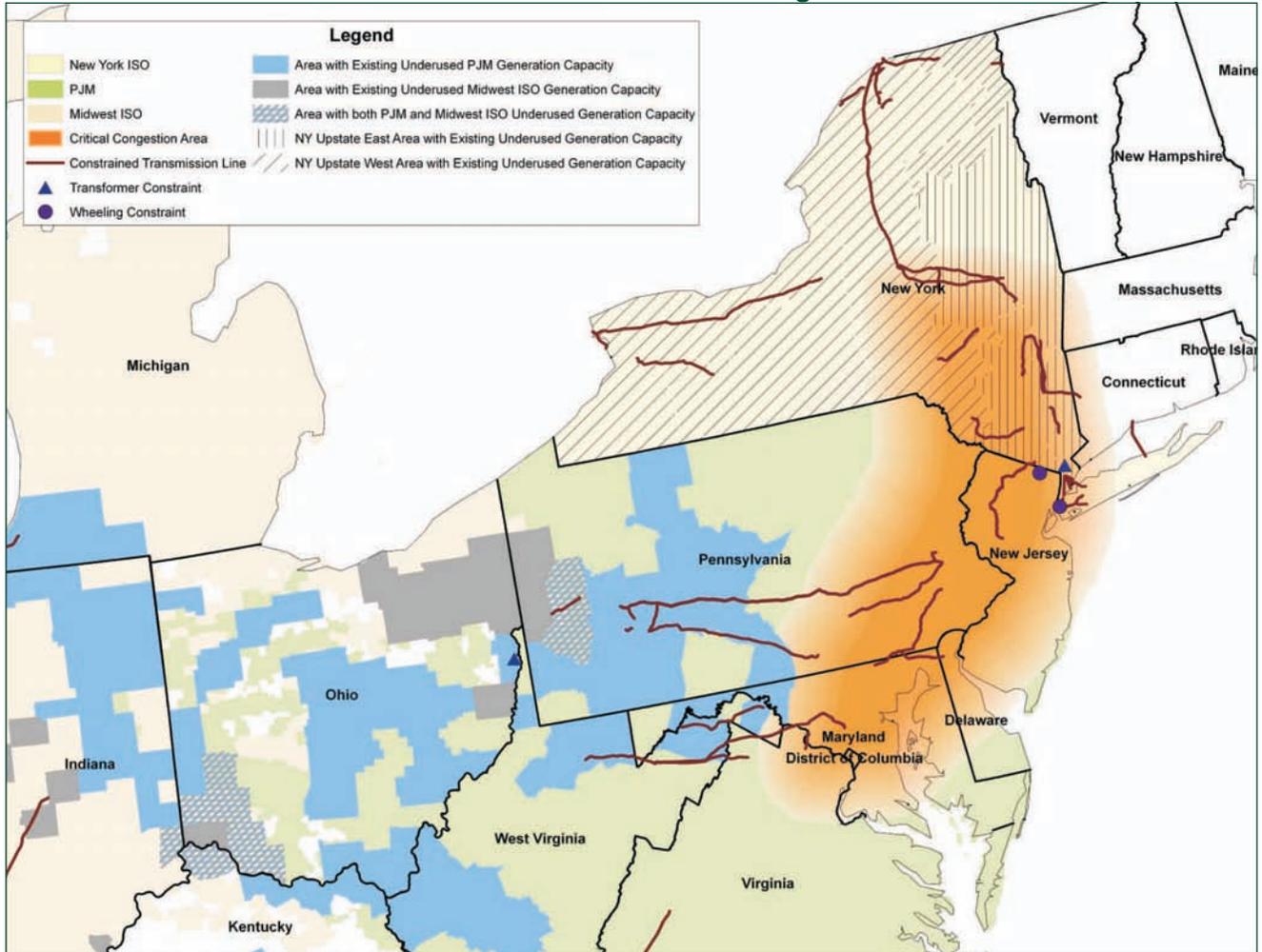
**Figure VIII-15. Approximate Locations of Existing Non-Renewable Low-Cost Generation Sources in Relation to Mid-Atlantic Critical Congestion Area**



Note: For the locations of potential renewable generation resources by state, see Appendix B.

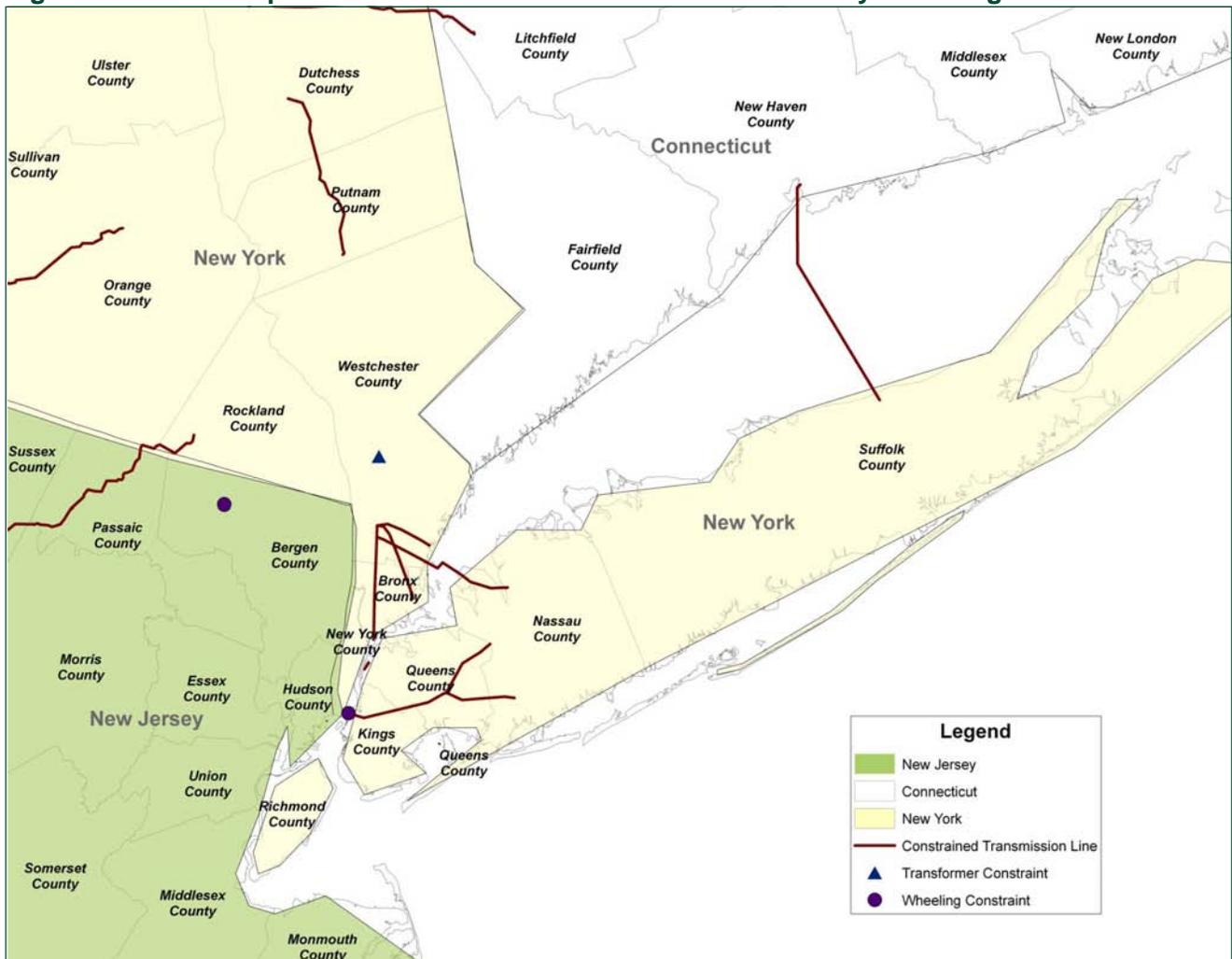
Source: U.S. Department of Energy, 2007.

**Figure VIII-16. Key Transmission Constraints Preventing Electricity Transfers from Available Lower-Cost Generation Sources to Mid-Atlantic Critical Congestion Area**



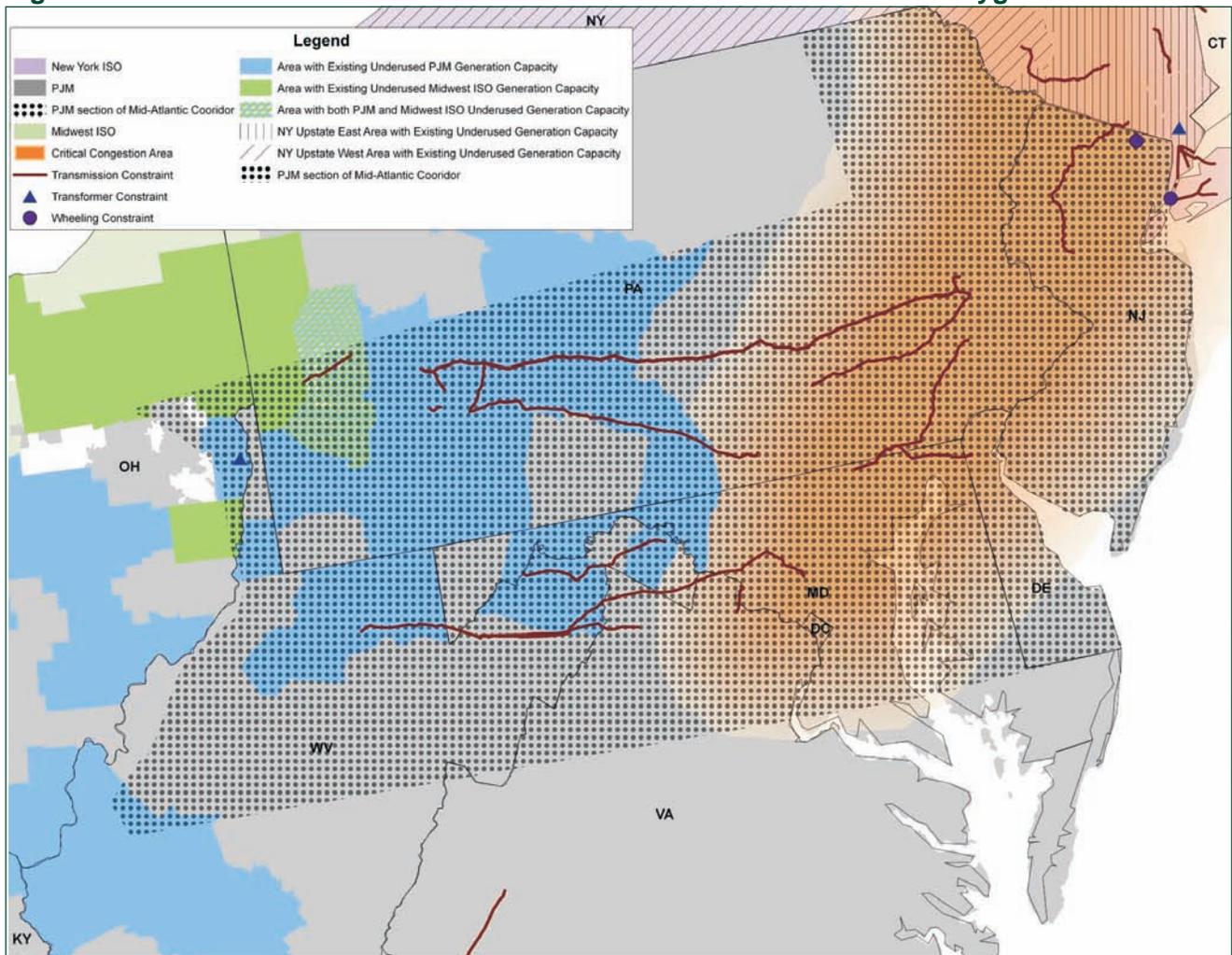
Source: U.S. Department of Energy, 2007.

Figure VIII-17. Principal Transmission Constraints in New York City and Long Island Area



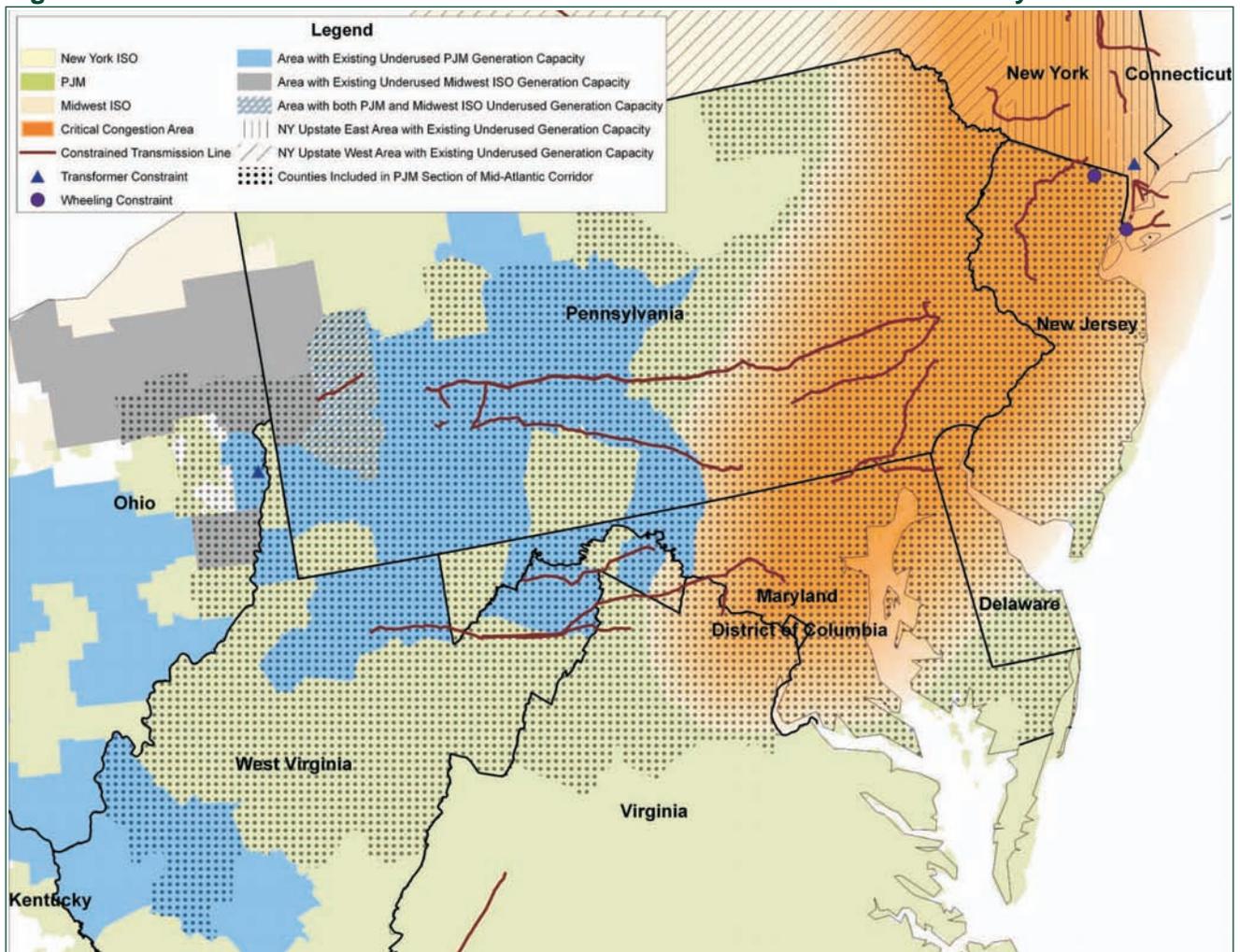
Source: U.S. Department of Energy, 2007.

**Figure VIII-18. PJM Portion of Draft Mid-Atlantic Area National Corridor: Polygon**



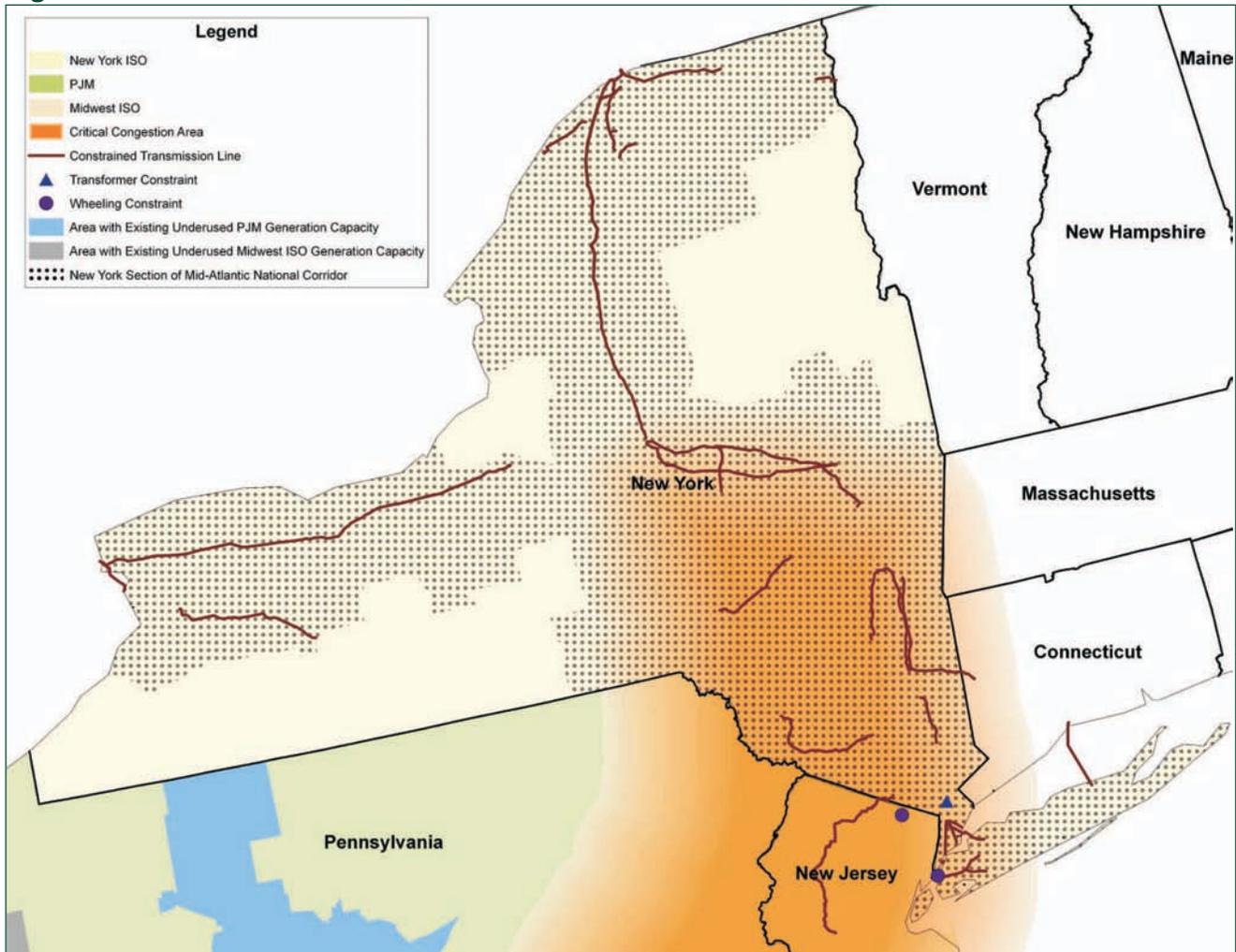
Source: U.S. Department of Energy, 2007.

**Figure VIII-19. PJM Portion of Draft Mid-Atlantic Area National Corridor: County Boundaries**



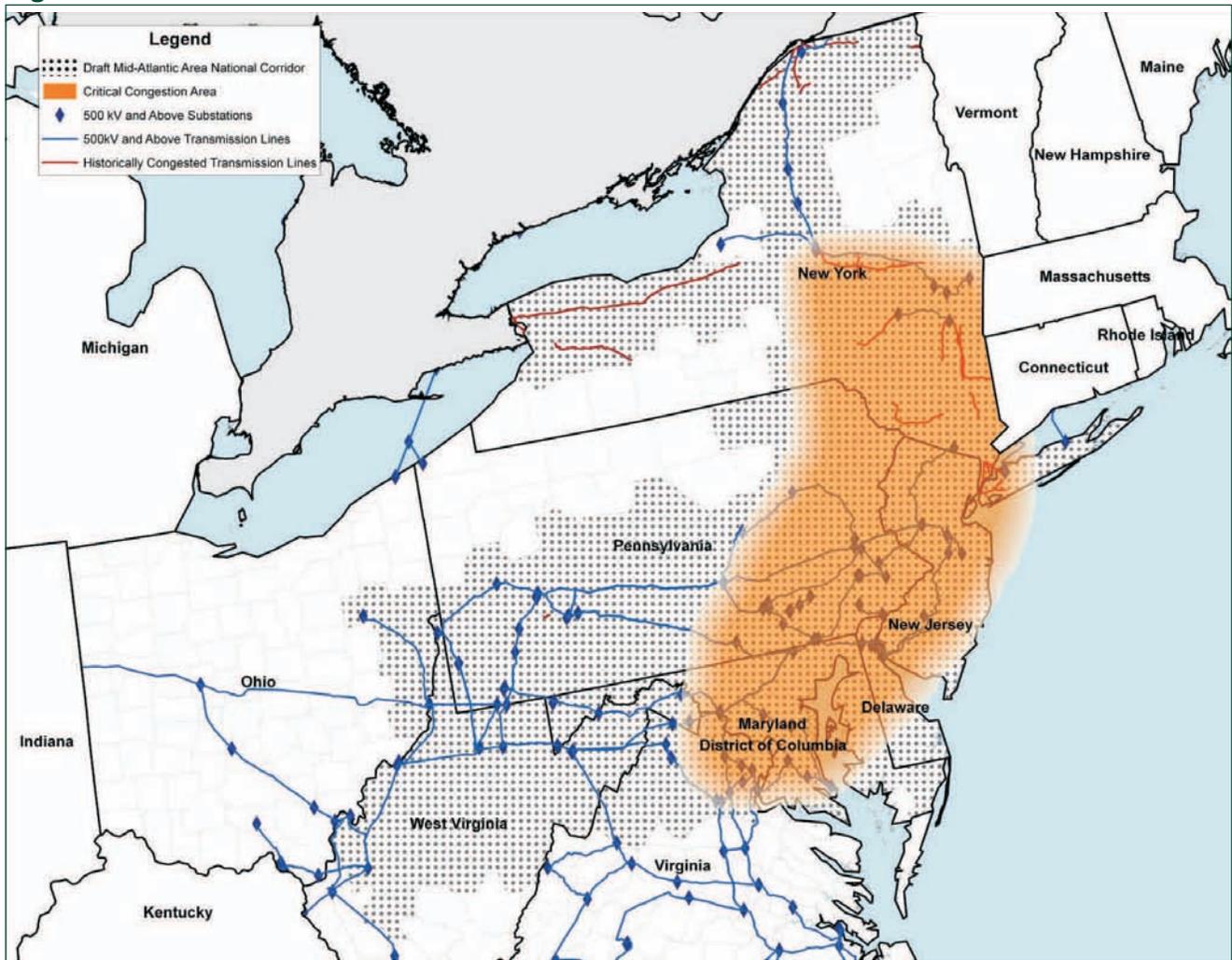
Note: Corridor borders are based on county boundaries.  
 Source: U.S. Department of Energy, 2007.

**Figure VIII-20. New York State Portion of Draft Mid-Atlantic Area National Corridor**



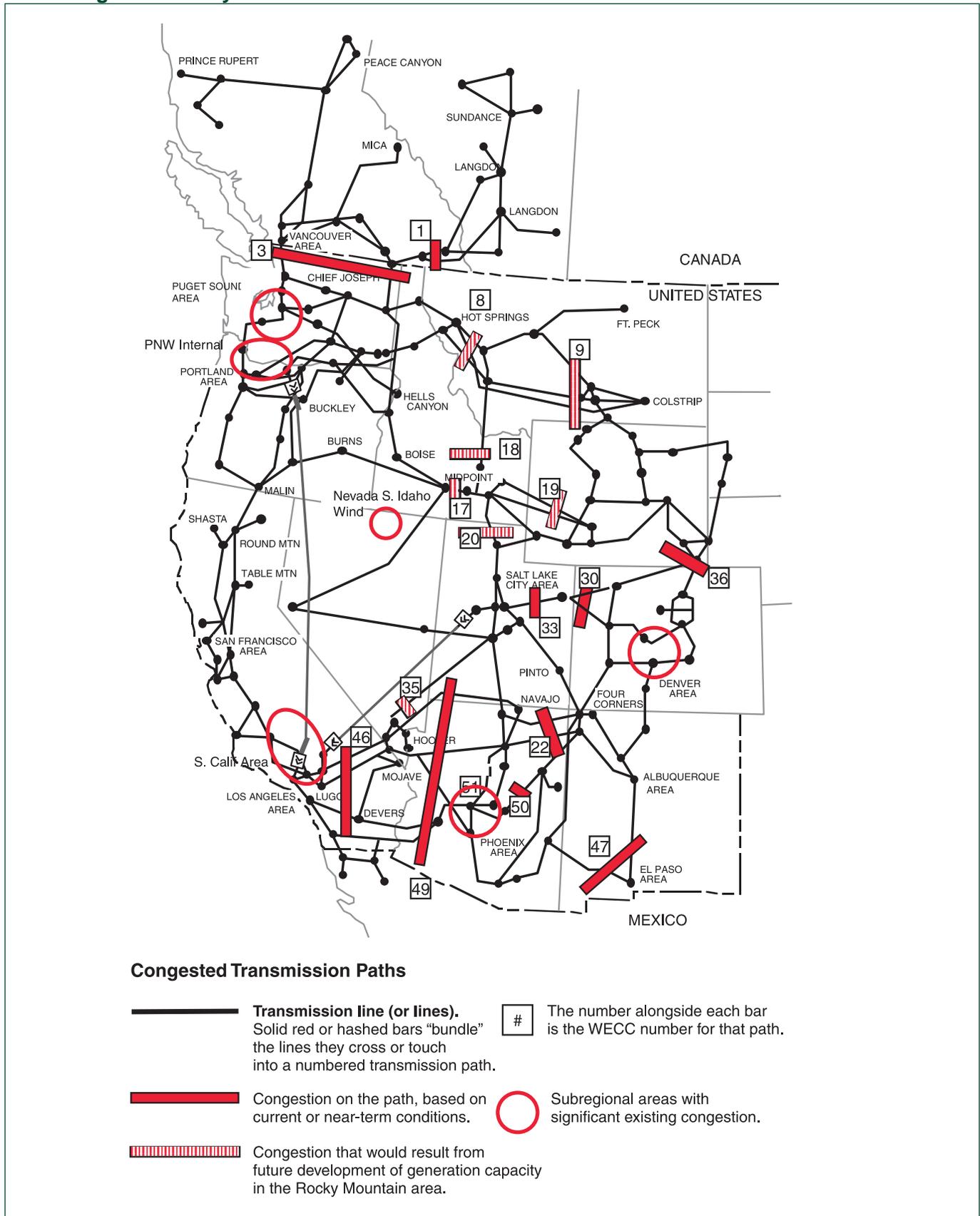
Note: Corridor borders are based on boundaries of affected counties.  
Source: U.S. Department of Energy, 2007.

**Figure VIII-21. Draft Mid-Atlantic Area National Corridor**



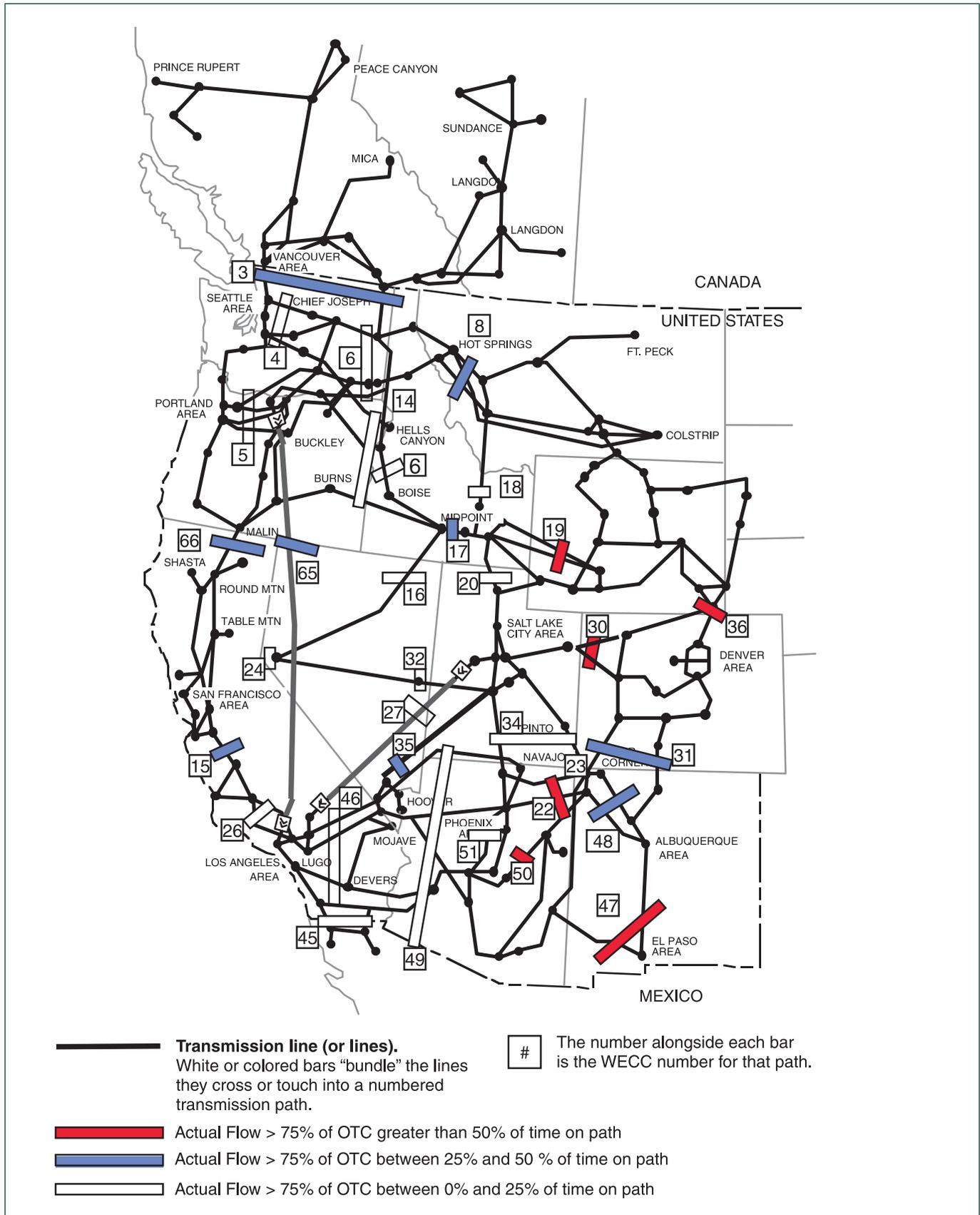
Note: County boundaries are shown.  
Source: U.S. Department of Energy, 2007.

**Figure IX-1. Congestion on Western Transmission Paths Identified by Others Prior to DOE Congestion Study**



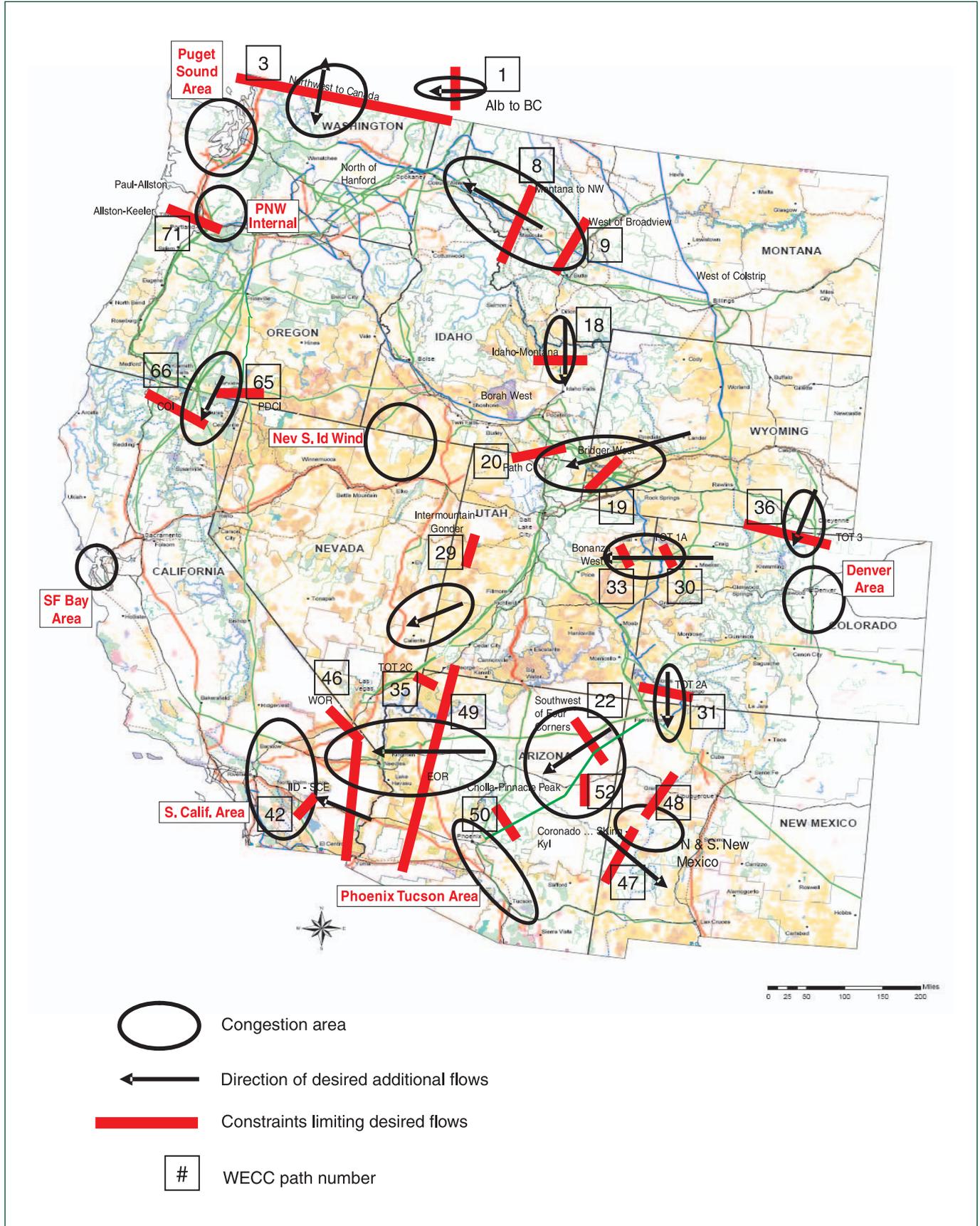
Source: DOE Congestion Study, p. 32.

**Figure IX-2. Congestion on Western Transmission Paths As Identified from Historical Data, 1999-2005**



Source: DOE Congestion Study, p. 33.

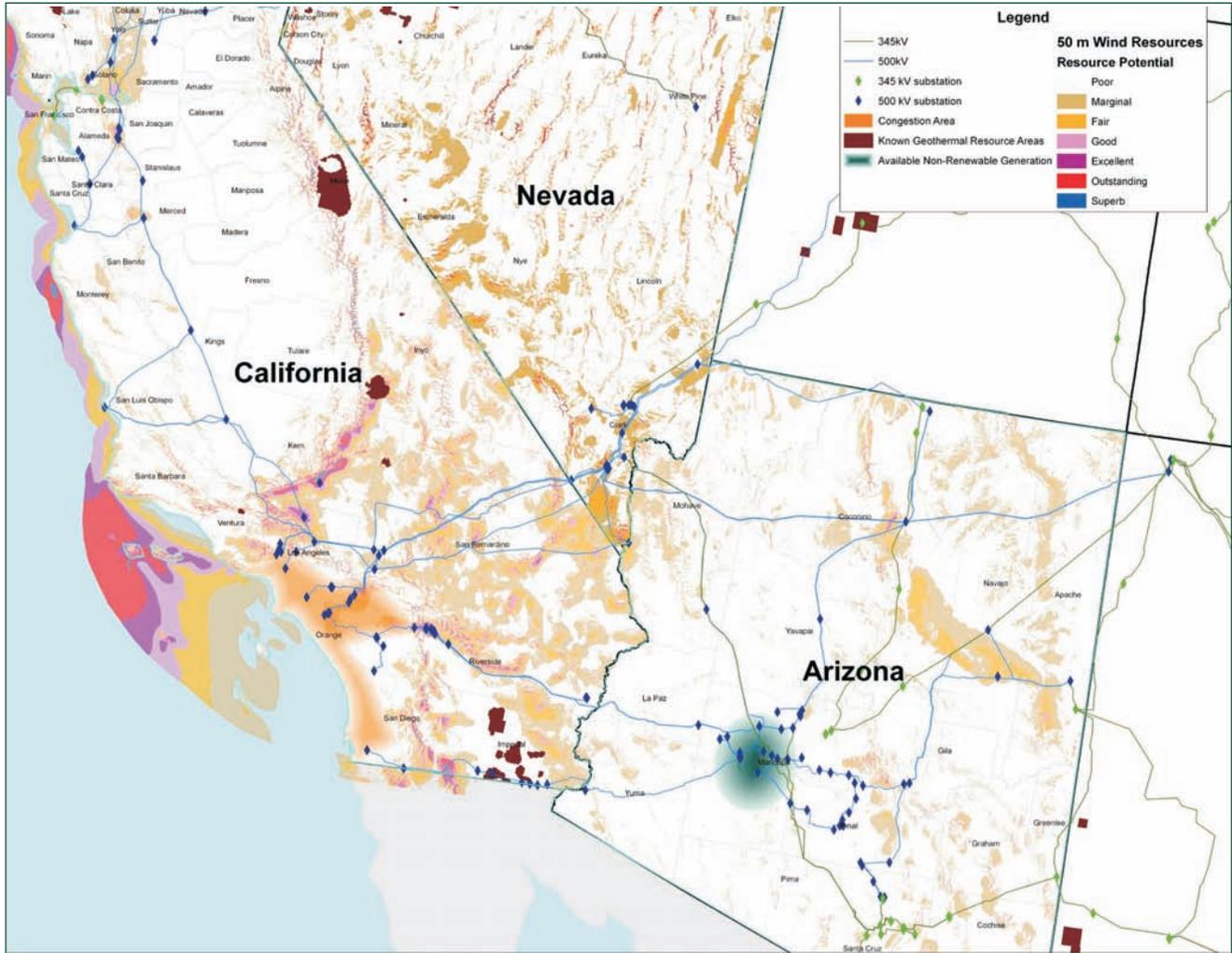
**Figure IX-3. Existing and Projected (2008) Congestion on Major Western Transmission Paths**



Source: DOE Congestion Study, p. 37.

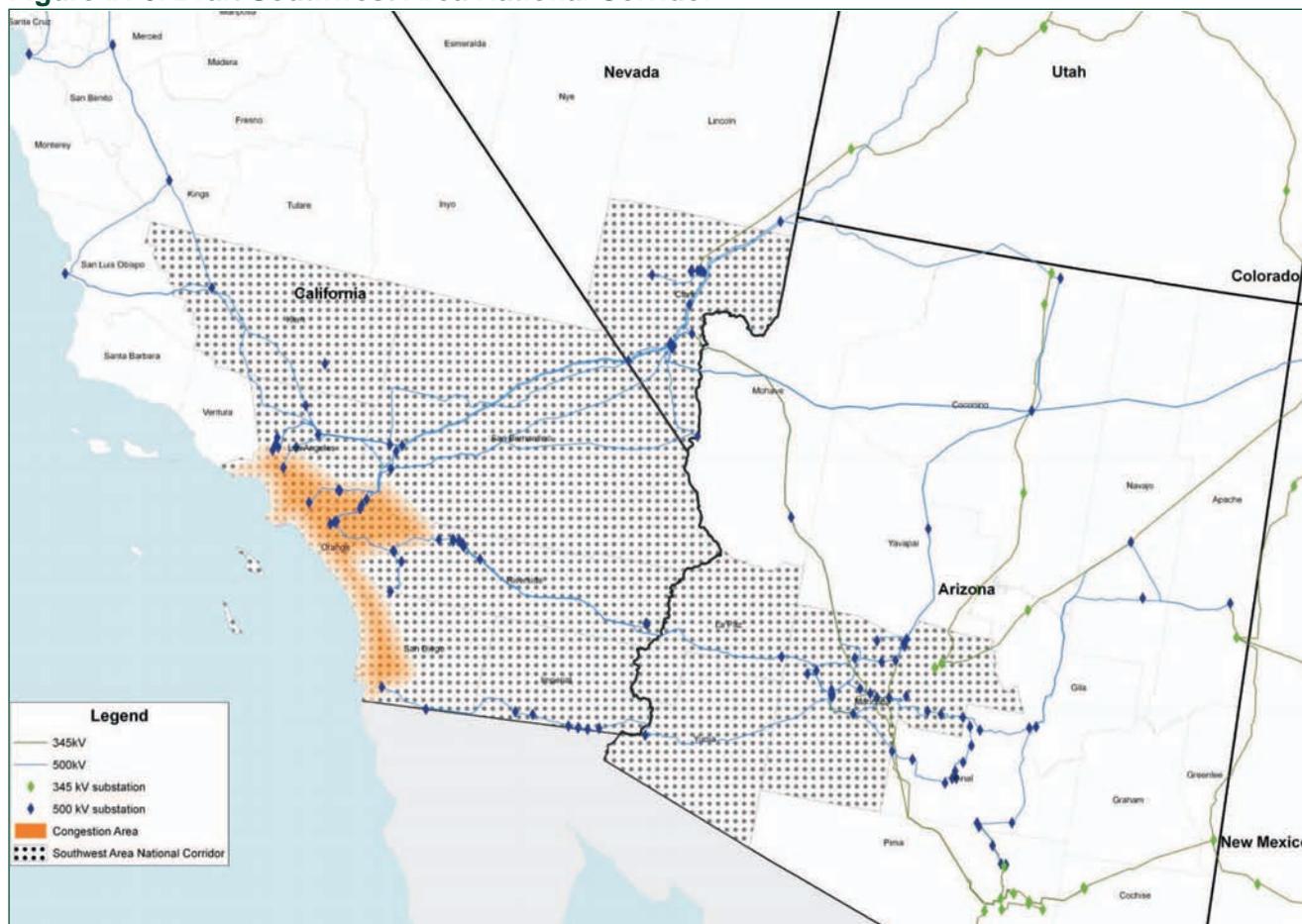


**Figure IX-5. Southern California Critical Congestion Area and Potential Gas-fired, Wind and Geothermal Generation Source Areas**



Source: U.S. Department of Energy, 2007.

Figure IX-6. Draft Southwest Area National Corridor



Source: U.S. Department of Energy, 2007.