

# National Electric Energy Data System (NEEDS) v.5.13

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- ▶ A bottom-up inventory reflecting EPA's best understanding of the generating fleet at the end of 2015
  - ▶ Latest EIA forms and CAMD data, as well as public comments received in the last few years
  - ▶ Updates new builds, retirements, controls, committed units, NO<sub>x</sub> rates
  - ▶ State rules and enforcement actions
  - ▶ Includes planned units that had broken ground or secured financing and were expected to be online by the end of 2015

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- ▶ EPA removed capacity from NEEDS based on public announcements of future closures if a high degree of certainty could be assigned to future implementation of the announced action
- ▶ The list of units considered for removal is built from several data sources
  1. Edison Electric Institute (EEI), “Coal Fleet Retirement Announcements”, July 29, 2011
  2. PJM, “Future Deactivation Requests”, “PJM Generator Deactivations”, 2012 (updated frequently)
  3. EIA, “Retired U.S. Electric Generating Units by Operating Company, Plant and Month, 2012
  4. Research by EPA and ICF staff

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- ▶ We reviewed available retirement-related information for each unit individually, applying the rules below, in the following order:
  1. All units that are listed as retired in the 2010, 2011, 2012 and February 2013 versions of EIA Electric Power Monthly are flagged for removal from NEEDS.
  2. All units with a status flag of “RE” or with a planned retirement year prior to 2016 in 2011 EIA 860 are flagged for removal from NEEDS.
  3. All units that have been cleared by a regional transmission operator (RTO) or independent system operator (ISO) to retire before 2016, or whose RTO/ISO clearance to retire is contingent on actions that can be completed before 2016, are flagged for removal from NEEDS.
  4. All units that have committed specifically to retire before 2016 under federal or state enforcement actions or regulatory requirements are flagged for removal from NEEDS.
  5. Finally, if a retirement announcement for a given unit can be corroborated by other available information then the unit is flagged for removal from NEEDS.

# Known Retirements Post-2015 and Projected Retirements

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- ▶ Known retirements post-2015
  - ▶ Units required to retire pursuant to enforcement actions or state rules in 2016 or later are retained in NEEDS and captured as unit-specific constraints in IPM modeling; the capacity is retired in future-year projections per the terms of the related requirements
- ▶ Projected retirements
  - ▶ IPM may project a unit retirement if that action is consistent with finding the least-cost solution to meeting electricity demand subject to environmental, transmission, fuel, reserve margin, and other system operating constraints