PJM Interconnection Queue Status & Statistics Update
Database Snapshot on 11/24/2015

Presented by David Egan
Manager, Interconnection Projects
Presented to PJM Planning Committee
December 3, 2015
Energy MWs that Entered the Queue

Queue:
- Y3
- Z1
- Z2
- AA1
- AA2
- AB1

MW:
- Other
- Storage
- Nuclear
- Coal
- Solar
- Wind
- Natural Gas
Generation Progress Progression - All Projects

Excludes Active Projects

Number of Projects

- Requests for New Project, 2,994
- Feasibility Studies Issued, 2,613
- Impact Studies Issued, 1,932
- Facility Studies Issued, 1,487
- Executed Agreement, 1,112
- In Service, 582

MW Capacity

- Requests for New Project, 352,669
- Feasibility Studies Issued, 299,104
- Impact Studies Issued, 164,604
- Facility Studies Issued, 107,306
- Executed Agreement, 72,744
- In Service, 32,293

- 92 projects with ISAs and 120 projects with WMPAs withdrew after agreement was fully executed.
- 19% went into service

- 15059MWC with ISAs and 390 MWC with WMPAs withdrew after agreement was fully executed.
- 9% went into service
Generation Progress Progression - Large Generation Projects
Excludes Active Projects

Number of Projects

- Requests for New Project, 1,291
- Feasibility Studies Issued, 1,160
- Impact Studies Issued, 782
- Facility Studies Issued, 545
- Executed Agreement, 377
- In Service, 198

MW Capacity

- Requests for New Project, 343,389
- Feasibility Studies Issued, 290,842
- Impact Studies Issued, 158,103
- Facility Studies Issued, 102,015
- Executed Agreement, 68,446
- In Service, 29,698

65 projects with ISAs and 1 project with WMPAs withdrew after agreement was fully executed.
15% went into service

1484 MWC with ISAs and 0 MWC with WMPAs withdrew after agreement was fully executed.
9% went into service
Generation Progress Progression - Small Generation Projects
*Excludes Active Projects*

**Number of Projects**

- Requests for New Project: 1,703
- Feasibility Studies Issued: 1,453
- Impact Studies Issued: 1,150
- Facility Studies Issued: 942
- Executed Agreement: 735
- In Service: 384

**MW Capacity**

- Requests for New Project: 9,280
- Feasibility Studies Issued: 8,262
- Impact Studies Issued: 6,501
- Facility Studies Issued: 5,291
- Executed Agreement: 4,298
- In Service: 2,595

27 projects with ISAs and 119 projects with WMPAs withdrew after agreement was fully executed.

23% went into service.

215MWC with ISAs and 390 MWC with WMPAs withdrew after agreement was fully executed.

28% went into service.
A→AB1 Queue Phase Progression Totals

Generation Progress Progression - New Generation Facilities
Excludes Active Projects

Number of Projects

- Requests for New Project, 2,385
- Feasibility Studies Issued, 2,050
- Impact Studies Issued, 1,455
- Facility Studies Issued, 1,052
- Executed Agreement, 722
- In Service, 296

MW Capacity

- Requests for New Project, 313,801
- Feasibility Studies Issued, 265,310
- Impact Studies Issued, 139,436
- Facility Studies Issued, 86,895
- Executed Agreement, 55,673
- In Service, 18,634

75 projects with ISAs and 120 projects with WMPAs withdrew after agreement was fully executed.
12% went into service

14,344 MWC with ISAs and 390 MWC with WMPAs withdrew after agreement was fully executed.
6% went into service
### Generation Progress Progression - Uprates to Existing Facilities

**Excludes Active Projects**

#### Number of Projects

- Requests for New Project, 609
- Feasibility Studies Issued, 563
- Impact Studies Issued, 477
- Facility Studies Issued, 435
- Executed Agreement, 390
- In Service, 286

17 projects with ISAs and 0 projects with WMPAs withdrew after agreement was fully executed.

47% went into service

#### MW Capacity

- Requests for New Project, 38,869
- Feasibility Studies Issued, 33,793
- Impact Studies Issued, 25,168
- Facility Studies Issued, 20,411
- Executed Agreement, 17,071
- In Service, 13,659

715MWC with ISAs and 0 MWC with WMPAs withdrew after agreement was fully executed.

35% went into service
MW Capacity in PJM Queue

- **Feasibility**: 18,000 MW Capacity
- **System Impact**: 12,000 MW Capacity
- **Facilities**: 10,000 MW Capacity
- **Final Agreement**: 2,000 MW Capacity

- Red: Agreement
- Blue: Study
Number of Projects in PJM Queue

- Feasibility
- System Impact
- Facilities
- Final Agreement

Number of Projects

- Agreement
- Study

Project Phase

[Bar chart showing the number of projects in different phases for both Agreement and Study]
Number of Projects in Feasibility Study

Transmission Owner

AEC  AEP  APS  ATSI  BGE  ComEd  Dayton  DEOK  DL  Dominion  DPL  JCPL  ME  PECO  Penelco  PPL  PSEG

Backlog  Active
Number of Projects in System Impact Study

Transmission Owner

- AEC
- AEP
- APS
- ATSI
- BGE
- ComEd
- Dayton
- DEOK
- DL
- Dominion
- DPL
- JCPL
- ME
- PECO
- Penelec
- PPL
- PSEG

Number of Projects

- Backlog
- Active
Number of Projects in Facilities Study

Transmission Owner

AEC  AEP  APS  ATSI  BGE  ComEd  Dayton  DEOK  DL  Dominion  DPL  JGPL  ME  PECO  Penelec  PPL  PSEG

Number of Projects

Backlog

Active
MW Energy In Queue
Active, Under Construction, or Suspended

- Natural Gas, 62,575
- Coal, 1,983
- Wind, 15,016
- Solar, 3,974
- Nuclear, 1,706
- Storage, 920
- Other, 605

Other sources of energy in the queue include:
- Coal
- Wind
- Solar
- Nuclear
- Storage
- Other
MW Capacity In Queue
Active, Under Construction, or Suspended

- Natural Gas, 59,639
- Coal, 1,863
- Nuclear, 1,663
- Solar, 2,214
- Storage, 32
- Wind, 2,384
- Other, 623
Number of Projects In Queue
Active, Under Construction, or Suspended

- Solar, 235
- Natural Gas, 206
- Storage, 81
- Wind, 87
- Coal, 9
- Other, 38
- Nuclear, 4

www.pjm.com
Histogram of Active Projects by MW Capacity

Number of Applications

MWC Requested

- 0-5 MW: 144
- 5-10 MW: 41
- 10-15 MW: 32
- 15-20 MW: 28
- 20-50 MW: 54
- 50-100 MW: 27
- 100-500 MW: 28
- 500-1000 MW: 32
- 1000+ MW: 10
Requests in Last Month of Queues

Percentage of Applications Received in Last Month of Queue

Week 2-4
Last Week