PJM Interconnection Queue Status & Statistics Update
Database Snapshot on 05/26/2016

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Manager, Interconnection Projects
Presented to PJM Planning Committee
June 9, 2016
Energy MWs that Entered the Queue

MW

Queue

Other
Storage
Nuclear
Coal
Solar
Wind
Natural Gas

Z1
Z2
AA1
AA2
AB1
AB2
<table>
<thead>
<tr>
<th>Phase</th>
<th>Projects (Quantity)</th>
<th>Capacity (MW)</th>
<th>Energy (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>2,733</td>
<td>322,014</td>
<td>389,501</td>
</tr>
<tr>
<td>Feasibility Phase Complete</td>
<td>2,475 91%</td>
<td>284,656 88%</td>
<td>348,524 89%</td>
</tr>
<tr>
<td>System Impact Studies Phase Complete</td>
<td>1,837 67%</td>
<td>152,312 47%</td>
<td>195,911 50%</td>
</tr>
<tr>
<td>Facilities Studies Phase Complete</td>
<td>1,439 53%</td>
<td>100,321 31%</td>
<td>125,174 32%</td>
</tr>
<tr>
<td>Final Agreement Issued</td>
<td>1,131 41%</td>
<td>72,394 22%</td>
<td>92,027 24%</td>
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<tr>
<td>Final Agreement Executed</td>
<td>898 33%</td>
<td>58,849 18%</td>
<td>73,856 19%</td>
</tr>
<tr>
<td>In Service</td>
<td>632 23%</td>
<td>37,037 12%</td>
<td>45,004 12%</td>
</tr>
</tbody>
</table>
Small Generation Phase Progression Totals
A→AB2 Queue

- **Applications**: 1,573
- **Feasibility Phase Complete**: 1,412 (90%)
- **System Impact Studies Phase Complete**: 1,127 (72%)
- **Facilities Studies Phase Complete**: 948 (60%)
- **Final Agreement Issued**: 761 (48%)
- **Final Agreement Executed**: 598 (38%)
- **In Service**: 417 (27%)

- **Capacity (MW)**
  - **Total**: 8,345
  - **Feasibility Phase Complete**: 7,759 (93%)
  - **System Impact Studies Phase Complete**: 6,149 (74%)
  - **Facilities Studies Phase Complete**: 5,238 (63%)
  - **Final Agreement Issued**: 4,278 (51%)
  - **Final Agreement Executed**: 3,582 (43%)
  - **In Service**: 2,729 (33%)

- **Energy (MW)**
  - **Total**: 14,623
  - **Feasibility Phase Complete**: 13,434 (92%)
  - **System Impact Studies Phase Complete**: 10,282 (70%)
  - **Facilities Studies Phase Complete**: 8,130 (56%)
  - **Final Agreement Issued**: 6,422 (44%)
  - **Final Agreement Executed**: 4,968 (34%)
  - **In Service**: 3,437 (24%)
## Uprate Generation Phase Progression Totals

### A→AB2 Queue

<table>
<thead>
<tr>
<th>Phase</th>
<th>Projects (Quantity)</th>
<th>Capacity (MW)</th>
<th>Energy (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>545</td>
<td>33,970</td>
<td>33,493</td>
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<tr>
<td>Feasibility Phase Complete</td>
<td>514</td>
<td>30,363</td>
<td>31,520</td>
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<tr>
<td>System Impact Studies Phase Complete</td>
<td>439</td>
<td>22,289</td>
<td>22,933</td>
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<tr>
<td>Facilities Studies Phase Complete</td>
<td>414</td>
<td>20,570</td>
<td>20,864</td>
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<tr>
<td>Final Agreement Issued</td>
<td>381</td>
<td>17,412</td>
<td>18,229</td>
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<tr>
<td>Final Agreement Executed</td>
<td>359</td>
<td>16,029</td>
<td>16,839</td>
</tr>
<tr>
<td>In Service</td>
<td>303</td>
<td>13,511</td>
<td>13,789</td>
</tr>
</tbody>
</table>
MW Capacity in PJM Queue

- **Feasibility**: 20,000 MW Capacity
- **System Impact**: 10,000 MW Capacity
- **Facilities**: 16,000 MW Capacity
- **Final Agreement**: 2,000 MW Capacity

Legend:
- Green: Agreement
- Blue: Study
Number of Projects in Facilities Study

Transmission Owner

Number of Projects

Backlog
Active
**MW Energy In Queue**

Active, Under Construction, or Suspended

- **Wind**, 15,534, 18.4%
- **Solar**, 7,244, 8.6%
- **Coal**, 2,007, 2.4%
- **Nuclear**, 276, 0.3%
- **Storage**, 750, 0.9%
- **Other**, 427, 0.5%

**Natural Gas**, 58,086, 68.9%
MW Capacity in Queue
Active, Under Construction, or Suspended

- Natural Gas, 55,685, 87.2%
- Wind, 2,245, 3.5%
- Solar, 3,794, 5.9%
- Coal, 1,887, 3.0%
- Nuclear, 257, 0.4%
- Storage, 0, 0.0%
- Other, 2, 0.0%
Active Studies

Number of Projects In Queue
Active, Under Construction, or Suspended

- Solar, 290, 40.0%
- Wind, 90, 12.4%
- Natural Gas, 212, 29.2%
- Other, 39, 5.4%
- Storage, 74, 10.2%
- Nuclear, 10, 1.4%
- Coal, 10, 1.4%
Fuel Distribution

MW Capacity in Queue
Active, Under Construction, or Suspended

Transmission Owner

MW

Other
Storage
Nuclear
Coal
Solar
Wind
Natural Gas

AEC AEP APS ATSI BGE ComEd Dayton DEOK DL Dominion DPL JCP LME PECO Penetec PEPCO PPL PSEG
Histogram of Active Projects by MW Capacity

Number of Applications

MWC Requested

- 0.5 MW: 143
- 5-10 MW: 44
- 10-15 MW: 51
- 15-20 MW: 27
- 20-50 MW: 75
- 50-100 MW: 39
- 100-500 MW: 29
- 500-1000 MW: 26
- 1000+ MW: 10
Percentage of Applications Received in Last Month of Queue

- Remaining
- Last Week

Queue:
- V3
- V4
- W1
- W2
- W3
- W4
- X1
- X2
- X3
- X4
- Y1
- Y2
- Y3
- Z1
- Z2
- AA1
- AA2
- AB1
- AB2