Wind and Solar
Class Average Capacity Factors
Effective 6/1/2017

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Wind Class Average Capacity Factors

• Based on actual data for the summer peak hours (HE 1500-1800) for 2014-2016
  – In mountainous terrain  14.7%
  – In open/flat terrain  17.6%
    • Project developers can request other capacity factors by providing sufficient
documentation
    • PJM will evaluate the request
  
• As with class average EFORd, the intent is to continue to update these values on
an annual basis going forward

• The class average values may be replaced by class average wind speeds if
sufficient data is available

• Newer machines tend to perform better than older machines, hence the need for
better granularity
Solar Class Average Capacity Factors

- Based on actual data for the summer peak hours (HE 1500-1800) for which as-built project information is known
  - Ground mounted fixed panel 42.0%
  - Ground mounted tracking panel 60.0%
  - Other than ground mounted 38.0%
    - Project developers can request other capacity factors by providing sufficient documentation
    - PJM will evaluate the request
- As with class average EFORd, the intent is to continue to update these values on an annual basis going forward
- These calculators adjust for project specific parameters such as tracking span, longitude and DC/AC ratio
Wind and Solar Class Average Capacity Factors

- The PJM Resource Adequacy webpage can be found at this link:

- Class Average Wind & Solar Capacity factors can be found at this link:
  http://www.pjm.com/~media/planning/res-adeq/class-average-wind-capacity-factors.ashx

- Solar Calculators:
  - Instructions for using the solar calculators can be found at this link:
    http://www.pjm.com/~media/planning/res-adeq/class-average-solar-capacity-factor-calculator-instructions.ashx
  - The calculator for fixed panel projects can be found at this link:
    http://www.pjm.com/~media/planning/res-adeq/class-average-solar-capacity-factor-calculator-for-fixed-panel-projects.ashx
  - The calculator for tracking panel projects can be found at this link:
    http://www.pjm.com/~media/planning/res-adeq/class-average-solar-capacity-factor-calculator-for-tracking-projects.ashx
• Please contact gadssupport@pjm.com for any questions associated with the wind and solar class average capacity factors