



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

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- 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

- 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
- Solar calculators are available on the PJM Resource Adequacy webpage at this link:
<http://www.pjm.com/planning/resource-adequacy-planning/resource-reports-info.aspx>
- These calculators adjust for project specific parameters such as tracking span, longitude and DC/AC ratio

- The PJM Resource Adequacy webpage can be found at this link:
<http://www.pjm.com/planning/resource-adequacy-planning/resource-reports-info.aspx>
- 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