



Dynamic Line Ratings Update

Shaun Murphy, PhD
PJM Operating Committee
April 8, 2021

Detailed education session held to provide stakeholders information on the dynamic line ratings (DLR) technology:

- Background information
- Impacts on PJM Operations, Markets and Planning
- FERC NOPR on transmission line ratings
- Monitoring Analytics presentation
- RTR Technology / Ampacimon installation experiences

<https://pjm.com/forms/registration/Meeting%20Registration.aspx?ID={03AC5118-6D23-432C-A0C8-F8FD8D14CC47}>



As of March 25, 2021

OC Special Session – Dynamic Line Ratings
WebEx Only
March 30, 2021
1:00 p.m. – 5:00 p.m. EPT

Administration (1:00-1:15)

Alexandra Scheirer, secretary, will welcome participants, make announcements, and review the Antitrust, Code of Conduct, and Public Meetings/Media Participation Guidelines.

Janell Fabiano, facilitator, and Eric Hsia, PJM, will make opening remarks.

Education (1:15-4:10)

1. Dynamic Line Ratings Overview
Shaun Murphy, PJM, will provide an overview of the dynamic line ratings technology and the history of dynamic line ratings in PJM.
2. EMS and eDART Functionality Education
Dave Hislop, PJM, and Ryan Nice, PJM, will provide education the current and planned functionality in EMS and eDART to accommodate dynamic line ratings.
3. Operations Contingency and Outage Impacts Education
Dave Hislop, PJM, will provide education on the impacts of dynamic line ratings on operations contingency and outages.
4. Transmission Planning Impacts Education
Julia Spatafore, PJM, will provide education on the impacts of dynamic line ratings on transmission planning
5. Modeling Dynamic Line Ratings in Markets Education
Tim Horgan, PJM, will provide education on modeling hourly dynamic line ratings in the Real-Time, Day-Ahead and FTR markets.
6. Modeling Dynamic Line Ratings Markets Efficiency Planning Process Education
Nick Dumitriu, PJM, will provide education on modeling hourly dynamic line ratings in the Market Efficiency planning process.
7. Dynamic Line Ratings NOPR Update
Jim Bulew, PJM, will provide an update on PJM's comments on the FERC NOPR concerning dynamic line ratings.

Topics Covered

- EMS functionality
- Planned eDART enhancements
 - Auto handling of real-time DLR ratings
 - Daily upload of Day Ahead DLR forecasts
- Integration with RT/DA markets
- Modeling DLRs in markets
- Modeling DLRs in the Market Efficiency planning process

Other Considerations

- Manual updates
- Notification timing of DLR projects
- Potential inclusion of weather-based ratings in other PJM processes

[1] <https://pjm.com/-/media/library/reports-notice/special-reports/2021/20210401-incorporating-dlr-into-market-efficiency.ashx>

Presenter:

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Dynamic Line Ratings

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