



ISSUE CREATION

Additional Issues Relating to the Implementation of Dynamic Line Ratings was created as a next phase to Interim Measures to Facilitate the Integration of Dynamic Ratings into PJM Operations. The Problem Statement and education-focused Issue Charge was brought forward by PJM at the request of stakeholders and approved at the April 14, 2021 Operating Committee (OC). This issue was assigned to the new Dynamic Line Ratings Task Force (DLRTF) reporting to OC. All posted materials are on the DLRTF page.

ISSUE SUMMARY

The purpose of this issue and work effort was to explore additional considerations related to DLR implementation, including notice of intent to implement DLR, impacts to ARR/FTR markets, and impacts to the Seasonal Ratings utilized within PJM Planning processes.

The expected deliverable was education.

Out of scope were any modifications to the Operating Agreement, Tariff or Manuals that would infringe upon the terms of the Consolidated Transmission Owners Agreement, including requiring Transmission Owners to install and/or implement DLR, modifying the Transmission Owners' authority to determine transmission line rating methodologies, and calculate transmission line ratings. A furtherance of compliance efforts with Order No. 881 was also out of scope.

TASK FORCE KEY WORK ACTIVITIES

	9/8/2022 OC	9/30/2022	11/11/2022	12/12/2022	1/12/2023 OC	2/9/2023 OC
Review Work Plan		Х	X	X		
Education		Х	Х	Х		
Additional considerations regarding notice of an intent to implement DLR.		X	X			
b) Impact of DLR implementation to ARR/FTR markets.		Х	Х			
c) DLR impacts to the Seasonal Ratings utilized within PJM Planning processes.		Х	X			
d) DLR implementation perspectives from stakeholders and DLR vendors.				X		
Education Survey Open	Х					
Review Education Tracker			Х	Х		
Updates to Parent Committee	Х				Sunset First Read	Sunset Endorsement



e (DLRTF)

Meeting Summaries:

- September 30, 2022: PJM presented education on dynamic line ratings in PJM to date and education on the
 three key topics noted in the Issue Charge: (1) Considerations regarding notice of an intent to implement DLR,
 (2) Impacts of DLR implementation to ARR/FTR markets, and (3) impact on Seasonal Ratings utilized within
 PJM Planning processes. Stakeholders also reviewed draft questions for an education survey, opened to the
 DLRTF and OC email distribution lists after the September meeting.
- November 11, 2022: The education survey results were discussed while reviewing the <u>Education Tracker</u>, which
 includes 24 consolidated requests, FAQs, responses, and related links. PJM SMEs discussed the detailed
 responses to the survey feedback and provided additional clarifications. The Education Tracker was posted on
 the DLRTF main page after the November meeting.
- December 12, 2022: Transmission Owners and DLR technology vendors shared experiences and best practices
 for implementing dynamic line ratings. Next steps for the task force was also discussed, including options for
 sunset and hiatus given the Task Force had covered education on all topics in the Issue Charge, and no new
 education requests were received.

RECOMMENDED PROPOSAL / ALTERNATE 1 / ALTERNATE 2

Not Applicable

STANDING COMMITTEE RESULTS

The DLRTF completed all education items in the issue charge, plus education on additional topics brought forward through stakeholder feedback and the education survey (see <u>Education Tracker</u>). PJM remains open to feedback from stakeholders on activities for the task force, but no new requests have been brought forward. An update on DLRTF activities was provided at the January 12, 2023 Operating Committee. During that time, stakeholders provided feedback on options for a path forward, including:

- Hiatus: Pause task force and resume meetings when needed. For example, when more data on existing
 projects becomes available, needs for additional changes (if any) are identified, FERC issues additional
 rulemaking on DLR. Addressing needs for additional changes via CBIR would require updates to Issue
 Charge.
- 2. **Sunset**: Close task force, and bring new PS/IC as need arises.

Under all options, information on any new DLR installation must be communicated to Operating Committee per the notice requirement in M03 - Section 2.1.1.2.

Stakeholders voiced support for sunset of the DLRTF, and this option was designated as a First Read at the January 12, 2023 Operating Committee.

On February 9, 2023 the Operating Committee endorsed the sunset of the DLRTF with 0 objections and 0 abstentions.





APPENDIX I: SUPPLEMENTAL DOCUMENTS

Committee Page

Issue Tracking

Education Tracker

APPENDIX II: PJM PARTICIPATION

Facilitator: Natalie Tacka Furtaw

Secretary: Ashwini Bhat

Advocates: David Hislop, Sami Abdulsalam, Eric Hsia, PJM Stakeholder Affairs Representative

Subject Matter Experts: Raymond J. III Fernandez, Nicolae Dumitriu, Christopher R. Callaghan, Michael Herman, Vy Le, Bilge Derin, Ryan A. Nice, James Waweru, Darlene Phillips, J. Rami G Dirani, Janell L. Fabiano, Kevin Bazar.

PJM Legal: Mark Stanisz

APPENDIX III: STAKEHOLDER PARTICIPATION

Name	Company	Sector		
Tina Mohler	PJM Interconnection LLc	Not Applicable		
Hong Chen	PJM Interconnection LLc	Not Applicable		
Jim Benchek	First energy Corporation	Transmission Owner		
Mark Stanisz	PJM Interconnection LLc	Not Applicable		
Michael Herman	PJM Interconnection LLc	Not Applicable		
Adrien Ford	Old Dominion Electric Cooperative	Electric Distributor		
Raymond Fernandez	PJM Interconnection LLc	Not Applicable		
john dadourian	Monitoring Analytics, LLC	Not Applicable		
Mike Bryson	PJM Interconnection LLc	Not Applicable		
Takis Laios	Appalachian Power Company	Transmission Owner		
Bill Crossland	Reliability First Corporation	Not Applicable		
Connie Schroeder	Dominion Energy	Transmission Owner		
Elizabeth Barnes	Not applicable	Not Applicable		
Jill Gates	PJM Interconnection LLc	Not Applicable		
Rafael Wilches	Public Service Electric & Gas Company	Transmission Owner		
Hilary Pearson	Linevision Inc	Not Applicable		
Christian McDewell	Not applicable	Not Applicable		
Steven Nadel	PPL Electric	Transmission Owner		
Becky Webb	Exelon Corporation	Transmission Owner		
Christopher Pilong	PJM Interconnection LLc	Not Applicable		







Dave Hicks	Perast Fund LP	Other Supplier		
Richard Steinbacher	Dominion Energy	Transmission Owner		
Jeff Whitehead	GT Power Group, LLC	Not Applicable		
Sharon Midgley	Exelon Corporation	Transmission Owner		
Jeremy Abramowitz	Monitoring Analytics, LLC	Not Applicable		
Joe Pilch	Duquesne Light Company	Transmission Owner		
John Eason	Not applicable	Not Applicable		
Clay	Linevision Inc	Not Applicable		
Bruce Bleiweis	DC Energy, LLC	Other Supplier		
Diane Janicki	Boston Energy Trading and Marketing LLC	Other Supplier		
Shaun Murphy	Urban Grid	Not Applicable		
Jonathan Marmillo	Linevision Inc	Not Applicable		
Kevin Bazar	PJM Interconnection LLc	Not Applicable		
Peter Hepplewhite	Wrigley Capital LLC	Other Supplier		
Jennifer Hohenshilt	Talen Energy Marketing, LLC	Generation Owner		
David Hislop	PJM Interconnection LLc	Not Applicable		
Kenneth Foladare	Tangibl Inc	Not Applicable		
Ray Fernandez	PJM Interconnection LLc	Not Applicable		
Claire Wang	Wrigley Capital LLC	Other Supplier		
Mark Hurwich	Elliott Bay Energy Trading, LLC	Other Supplier		
David Mabry	McNees, Wallace & Nurick, LLC	Not Applicable		
Meagan Kuchan	AES Corporation	Transmission Owner		
Forcum, David J	Duke Energy Ohio, Inc.	Transmission Owner		
Paul McGlynn	PJM Interconnection LLc	Not Applicable		
Baker, Jeff	Duke Energy Ohio, Inc.	Transmission Owner		
Steinkuhl, Steve	Duke Energy Business Services LLC	Transmission Owner		
Danielle Daugherty	ReliabilityFirst Corporation	Not Applicable		
Christopher Callaghan	PJM Interconnection LLc	Not Applicable		
Art Iler	Indiana Office of Utility Consumer Counsel	End User Customer		
Gary Mason	First energy Corporation	Transmission Owner		
Robert Cope	Dominion Energy	Transmission Owner		
Jason Cox	EDF Energy Services, LLC	Other Supplier		
Ashwini Bhat	PJM Interconnection LLc	Not Applicable		