ISSUE CREATION

<u>Problem Statement</u> and <u>Issue Charge</u> brought forward by Distributed Resources Subcommittee (DISRS) and reached consensus at the December 2, 2024 DISRS meeting.

The issue was worked through the DISRS Charter

ISSUE SUMMARY

This work is intended to address a specific OATT issue that prohibits behind-the-meter (BTM) battery energy storage systems (BESS) participating in the Regulation Market from injecting into the distribution grid in PJM zones with Net Energy Metering (NEM). PJM expects to address this issue in its proposed FERC Order 2222 compliance date of February 2, 2028. The subcommittee seeks earlier allowance of injection from these BTM BESS in NEM zones solely for participation in the Regulation Market.

CONSENSUS-BASED ISSUE RESOLUTION PROCESS

Number of Meetings and date range covering this topic at DISRS: 4 Meetings, 1/10/2025 - 4/4/2025.

Non-Binding Poll Results: None

Vote Results: DISRS reached consensus on proposing one solution package on 4/4/2025.

Final Matrix

1. RECOMMENDED PROPOSAL

Currently (status quo), Economic Demand Response (DR) Regulation Only registration may only participate in Regulation market and may only participate when there is load at the Point of Interconnection. If there is an injection at the POI during an interval they are not permitted to participate in the regulation market. The proposed change will allow participation in the regulation market when there is an injection at the POI as long as an EDC NEM Agreement is in place and the EDC explicitly approves the participation when there are injections. Further, the change is limited to Economic DR Regulation Only registrations where the location has been approved by PJM to use a submeter (load or Gen/Battery) for performance evaluation.

2. ALTERNATE 1 PROPOSAL

None

3. ALTERNATE 2 PROPOSAL

None

4. STANDING COMMITTEE RESULTS

Market Implementation Committee (MIC) will vote on the proposed package at July 9, 2025 MIC meeting.

APPENDIX I: SUPPLEMENTAL DOCUMENTS

Committee Page Issue Tracking

APPENDIX II: PJM PARTICIPATION

Facilitator: Ilyana Dropkin Secretary: David Hauske

Subject Matter Expert: Pete Langbein

PJM Legal: Chen Lu

APPENDIX III: STAKEHOLDER PARTICIPATION

Last Name	First Name	Company	Sector
Abramowitz	Jeremy	Monitoring Analytics, LLC	None
Anders	David	PJM Interconnection, LLC	None
Anderson	Jared	S&P Global	None
Anderson	Juliet	Constellation Energy Generation, LLC	Generation Owner
Anderson	Juliet	Constellation Energy Generation, LLC	Generation Owner
Anthony	Jason	KORenergy, Ltd.	Other Supplier
Baizman	Aaron	PJM Interconnection, LLC	None
Baker	Scott	PJM Interconnection, LLC	None
Baker	Jeff	Duke Energy Ohio, Inc.	Transmission Owner
Barker	Jason	Vitol Inc.	Generation Owner
Barnes	Elizabeth	Pennsylvania Public Utility Commission	None
Barrett	Richard	New Jersey Board of Public Utilities	None
Bauer	Jessie	Commonwealth Edison Company	Transmission Owner
Belenky	Maria	PJM Interconnection, LLC	None
Benitez	Rick	Other	None
Benson	Dan	Duke Energy Indiana, LLC	Transmission Owner
Boyle	Glen	PJM Interconnection, LLC	None
Callen	Zachary	Illinois Commerce Commission	None
Campbell	Bruce	Enerwise Global Technologies, LLC	Other Supplier
Carrier	Ronald	Big Lake Consulting Group, LLC	None
Carson	Donna	East Kentucky Power Cooperative, Inc.	Transmission Owner



Chang	Sean	Shell Energy North America (US), L.P.	Other Supplier
Chmielewski	Brian	PJM Interconnection, LLC	None
Christopher	Mahila	Public Utilities Commission of Ohio	None
Chu	George	PJM Interconnection, LLC	None
Clarke	Linda	PJM Interconnection, LLC	None
Clingan	Kristin	Public Utilities Commission of Ohio (The)	None
Connelly	Nancy	Duke Energy Ohio, Inc.	Transmission Owner
Connolly	Matthew	PJM Interconnection, LLC	None
Costa	Arthur	Dominion Virginia Power	Transmission Owner
Coyne	Suzanne	PJM Interconnection, LLC	None
Croop	Danielle	PJM Interconnection, LLC	None
D'Antonio	Phil	PJM Interconnection, LLC	None
Dalton	David	State Corporation Commission (Commonwealth of Virginia)	None
Davies	Steve	Indiana Regulatory Commission	None
Demiray	Eren	FirstEnergy Corporation	Transmission Owner
DeVita	Thomas	PJM Interconnection, LLC	None
Drom	Rick	Eckert Seamans	None
Dropkin	llyana	PJM Interconnection, LLC	None
Dugan	Chuck	East Kentucky Power Cooperative, Inc.	Transmission Owner
Ellis	David	Public Service Electric and Gas Company	Transmission Owner
Esterly	Theresa	PJM Interconnection, LLC	None
Fan	Zhenyu	PJM Interconnection, LLC	None
Fereshetian	Damon	PJM Interconnection, LLC	None
Fetterhoff	Logan	PJM Interconnection, LLC	None
Filomena	Guy	Customized Energy Solutions, Ltd.	None
Fink	Sari	MAREC Action	None
Flowler	Jequita	Potomac Electric Power Company	Electric Distributor
Foladare	Kenneth	Geenex Solar LLC	Other Supplier
Frede	Shannon	Maryland Energy Administration	None
Frogg	Darrell	PJM Interconnection, LLC	None
Fuess	Christian	PBF Power Marketing, LLC	Generation Owner
Fuller	Peter	Autumn Lane Energy Consulting LLC	None
Gates	Terry	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Ghosh	Josh	Constellation Energy Generation, LLC	Generation Owner
Gilman	Catherine	University of Delaware	None
Gordon	Jon	Advanced Energy United	None
Gould	Val	Delaware Department of Natural Resources & Environmental Control	None
Grisolia	Albert	Public Service Electric and Gas Company	Transmission Owner
Haggart	Robert	Rockland Electric Company	Transmission Owner
	Brian	ReliabilityFirst	



Hauske David PJM Interconnection. LLC None Hebert Evan PECO Energy Company Transmission Owner Herei Suzanne PJM Interconnection. LLC None Himmelspach Treasa Appalachien Power Company Transmission Owner Horstmann Jenn Dayton Power & Light Company (The) Transmission Owner Horstmann Jehn Dayton Power & Light Company (The) Transmission Owner Hunter Scott Other None Hurd Shawn Monongaheia Power Company d'bia Allegheny Power Transmission Owner Hybrinski Tom GT Power Group, LLC None Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnston David Indiana Utility Regulatory Commission None Kelly Stephen Bookfield Renewable Trading and Marketing LLC Generation Owner Kelly Stephen Brookfield Renewables, LLC Generation Owner Kirk Ryan Arapgid Renewables, LLC Generation Owner Kirk Ryan Arapgid Renewables, LLC Generation Owner LL Kanning PJM Interconnection, LLC None Luttake Jack PJM Interconnection, LLC None Luttake Jack PJM Interconnection, LLC None Luttake Jack PJM Interconnection, LLC None Marborfor Jay Intelligent Generation LLC None Massarelli Eva Deminion Virginia Power Transmission Owner Transmission Owner Messarelli Eva Deminion Virginia Power Transmission Owner Messarelli Eva Deminion Virginia Power Transmission Owner Messarelli Eva Deminion Virginia Power Transmission Owner Messarelli John John Calco Energy None AEP Energy Parkers, Inc. Transmission Owner Metz John University of Delaware None Mendez Victor Commonwealth of PA None None Ondayko Brook AEP Energy Parkers, Inc. Transmission Owner CNelli Jack PJM Interconnection, LLC	Hanser	Erik	Michigan Public Service Commission	None
Hebert Evan PECO Energy Company Transmission Owner Herel Suzanne PJM Interconnection, LLC None Filmmelspach Trassa Appalachian Power Company Transmission Owner Himmelspach Trassa Appalachian Power Company Transmission Owner Himmelspach Trassa Appalachian Power Company Transmission Owner Hobershilt Jennifer Talen Energy Marketing, LLC Generation Owner Hobershilt Jennifer Time PJM Interconnection, LLC None Hossimann John Dayton Power & Light Company (The) Transmission Owner Houster Scott Other None Transmission Owner Hurd Shawn Monongahela Power Company dib'a Allegheny Power Transmission Owner Hydrid Shawn Monongahela Power Company dib'a Allegheny Power Transmission Owner Hydrid Shawn Monongahela Power Company dib'a Allegheny Power Transmission Owner Hydrid Shawn David Monongahela Power Company dib'a Allegheny Power Transmission Owner Hydrid Shawn David Indiana Utility Regulatory Commission None Johnson Carl Customized Energy Solutions, Ltd. None Johnson David Indiana Utility Regulatory Commission None Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customizer Kelly Stephen Brookfeld Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Lyakhovich Leonid Public Senvice Electric and Gas Company Transmission Owner Usakon Java Intelligent Generation, LLC None David McNees Wallace & Nurick LLC None Marketing Julie Duke Energy Orlo, Inc. Transmission Owner Transmission Owner Transmission Owner Massarelli Eva Dominion Virginia Power Company dib'a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Transmission Owner Massarelli Eva Dominion Virginia Power Company dib'a Allegheny Power Transmission Owner Metz John University of Delaware None Ondayko Brook AEP Energy Patres, Inc. Transmission Owner None Ondayko Brook AEP Energy Patres, Inc. Transmission Owner	Hastings	David	Public Service Electric and Gas Company	Transmission Owner
Herel Suzanne PJM Interconnection, LLC None Himmelspach Treasa Appalachian Power Company Transmission Owner Hohenshilt Jennifer Talen Energy Marketing, LLC Generation Owner Hohenshilt Jennifer Tim PJM Interconnection, LLC None Horstmann John Dayton Power & Light Company (The) Transmission Owner Horstmann John Dayton Power & Light Company (The) Transmission Owner Horstmann John Dayton Power & Light Company (The) Transmission Owner Horstmann John Dayton Power & Light Company (The) None Horstmann John Dayton Power & Light Company (The) None Horstmann John Dayton Power & Light Company (The) None Janicki Johnson Gr Power Group, LLC None Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson David Indiana Utility Regulatory Commission None Johnson David Indiana Utility Regulatory Commission None Johnson David Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kemplon Nicholas NRG Power Marketing LLC Generation Owner Kityallen Kevin Avangrid Renewables, LLC Generation Owner Kity Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Litzke Jack PJM Interconnection, LLC None Marbor David McNees Wallace & Nurick LLC More Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner McDaviel Ohins Baltimore Gas and Electric Company Transmission Owner McDaviel Ohinstian Commonwealth of PA None McDaviel Ohinstian Commonwealth of PA None Medez Victor Commonwealth Edison Company Transmission Owner McDavid David Achies Supplier Miller None Ondayko Brock AEP Energy Pathers, Inc.	Hauske	David	PJM Interconnection, LLC	None
Himmelspach Treasa Appalachian Power Company Transmission Owner Hohenshilt Jennifer Talen Energy Marketing, LLC Generation Owner Horsmann John Dayton Power & Light Company (The) Transmission Owner Horsmann John Dayton Power & Light Company (The) Transmission Owner Hunter Scott Other None Stawn Monongahele Power Company d'h/a Allegheny Power Transmission Owner Hunter Shawn Monongahele Power Company d'h/a Allegheny Power Transmission Owner Hyzinski Tom GT Power Group, LLC None Janicki Diene Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnston David Indiana Utility Regulatory Commission None Johnson Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kilkik Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Litke Jack PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None PJM Interconnection, LLC None Marbord Marbord David McNees Wallace & Nortick LLC None Marbord McNees Wallace & Nortick LLC None Marbord McNees Wallace & Nortick LLC None Marbord Julie David McNees Wallace & Nortick LLC None Transmission Owner Other Supplier Transmission Owner Own	Hebert	Evan	PECO Energy Company	Transmission Owner
Hohenshilt Jennifer Talen Energy Marketing, LLC Generation Owner Horger Tim PJM Interconnection, LLC None Horstmann John Dayton Power & Light Company (The) Transmission Owner Hunter Scott Other None Hunter Scott Other Shawn Monongahela Power Company d'Ib/a Allegheny Power Transmission Owner Hydrinski Tom GT Power Group, LLC None Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnson David Indiana Utility Regulatory Commission None Johnson Scott Indiana Utility Regulatory Commission None Johnson Scott Indiana Other Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kilk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Litzke Jack PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Luykhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier Massarelli Eva Dominion Virginia Power McNees Wallace & Nurick LLC None Marssarelli Eva Dominion Virginia Power McDaniel John Baltimore Gas and Electric Company Transmission Owner McDaniel John Baltimore Gas and Electric Company Transmission Owner McDaniel John Baltimore Gas and Electric Company Transmission Owner McDaniel John Baltimore Gas and Electric Company Transmission Owner McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mononan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner OrNeill Jack PJM Interconnection, LLC Other	Herel	Suzanne	PJM Interconnection, LLC	None
Horger Tim PJM Interconnection, LLC None Horstmann John Dayton Power & Light Company (The) Transmission Owner Hunter Scott Other None Hurd Shawn Monongahela Power Company div/a Allegheny Power Transmission Owner Hyzinski Tom GT Power Group, LLC None Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnson David Indiana Utility Regulatory Commission None Johnson Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Luc Chen PJM Interconnection, LLC None Luc Chenid Public Service Electric and Gas Company Makbry David McNees Wallace & Nurick LLC Marhoefer Jay Intelligent Generation LLC Other Supplier Massarelli Eva Dominion Virginia Power Massarelli Eva Dominion Virginia Power McDaviel Christian Commonwealth of PA Mendez Victor Commonwealth of PA Mendez Victor Commonwealth of PA Mendez Victor Commonwealth of PA Miller John Calico Energy None Ordelyko Brock AEP Energy Partners, Inc. Transmission Owner Ordell Jack PJM Interconnection, LLC	Himmelspach	Treasa	Appalachian Power Company	Transmission Owner
Hostmann John Dayton Power & Light Company (The) Transmission Owner Hunter Scott Other None Hurd Shawn Monongahela Power Company d/b/a Allegheny Power Transmission Owner Hyzinski Tom GT Power Group, LLC None Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnston David Indiana Utility Regulatory Commission None Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilkgallen Kevin Avangrid Renewables, LLC Generation Owner Kilkgallen Kevin Avangrid Renewables, LLC Generation Owner Kilkgallen Kevin Avangrid Renewables, LLC Generation Owner Kilk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning Pull Interconnection, LLC None Li Kanning Pull Interconnection, LLC None Lu Chen Pull Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Masson Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Masson Gary Monongahela Power Company Transmission Owner Masson He SYSO Inc. Other Supplier Transmission Owner McDaviel John Baltimore Gas and Electric Company Transmission Owner McDaviel Christian Commonwealth Edison Company Transmission Owner Monona Casey Pull Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner	Hohenshilt	Jennifer	Talen Energy Marketing, LLC	Generation Owner
Hunter Scott Other None Hurd Shawn Monongahela Power Company d/b/a Allegheny Power Transmission Owner Hyzinski Tom GT Power Group, LLC None Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnston David Indiana Utility Regulatory Commission None Johnston David Indiana Utility Regulatory Commission None Jones Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kilk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Lit Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Luu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Marby David McNees Wallace & Nurick LLC Marbe David McNees Wallace & Nurick LLC Marber Jay Intelligent Generation LLC Marboefer Jay Intelligent Generation LLC Mone Masson Gary Monongahela Power Company d/bla Allegheny Power Transmission Owner Masson Gary Monongahela Power Company d/bla Allegheny Power Transmission Owner Masson Gary Monongahela Power Company Transmission Owner Monona Casey PJM Interconnection, LLC None Dohne Delaware Dohn University of Delaware None Donan Casey PJM Interconnection, LLC None Dohon Eric EDF Trading North America, LLC	Horger	Tim	PJM Interconnection, LLC	None
Hurd Shawn Monongahela Power Company dibia Allegheny Power Transmission Owner Hyzinski Tom GT Power Group, LLC None Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnston David Indiana Utility Regulatory Commission None Jones Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid PJublic Service Electric and Gas Company Marboy David McNees Wallace & Nurick LLC None Marboefer Jay Intelligent Generation LLC mason julie Duke Energy Ohio, Inc. Transmission Owner Massarelli Eva Dominion Virginia Power Company dibia Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Marboewell Christian Commonwealth of PA Mendez Victor Commonwealth of PA Mendez Victor Commonwealth of PA Mendez Victor Commonwealth of PA None Mendez Victor Commonwealth of PA None None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner	Horstmann	John	Dayton Power & Light Company (The)	Transmission Owner
Hyzinski Tom GT Power Group, LLC None Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnston David Indiana Utility Regulatory Commission None Jones Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kitgallen Kevin Avangrid Renewables, LLC Generation Owner Kitkik Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA McDewell Christian Commonwealth of PA Miller John Calico Energy None Mone Miller John Calico Energy None Ondayko Brock AEP Energy Partners, Inc. Other Supplier	Hunter	Scott	Other	None
Janicki Diane Boston Energy Trading and Marketing LLC Other Supplier Johnson Carl Customized Energy Solutions, Ltd. None Johnston David Indiana Utility Regulatory Commission None Jones Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgalien Kevin Avangrid Renewables, LLC Generation Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Lizke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he Sy'SO Inc. Other Supplier Transmission Owner McDeniel John Baltimore Gas and Electric Company Transmission Owner McDeniel John Duriversity of Delaware None Miller John Calico Energy None None Ondayko Brock AEP Energy Partners, Inc. Other Supplier	Hurd	Shawn	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
Johnson Carl Customized Energy Solutions, Ltd. None Johnston David Indiana Utility Regulatory Commission None Jones Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier Masson Gary Monongahela Power Company d'Ib/a Allegheny Power Transmission Owne	Hyzinski	Tom	GT Power Group, LLC	None
Johnston David Indiana Utility Regulatory Commission None Jones Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kilrk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier Mason Gary Monongahela Power Company drb/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission	Janicki	Diane	Boston Energy Trading and Marketing LLC	Other Supplier
Scott Indiana Office of Utility Consumer Counselor (IN OUCC) End-Use Customer Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier	Johnson	Carl	Customized Energy Solutions, Ltd.	None
Kelly Stephen Brookfield Renewable Trading and Marketing LP (BSMH) Other Supplier Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Mateson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDaniel	Johnston	David	Indiana Utility Regulatory Commission	None
Kempton Nicholas NRG Power Marketing LLC Generation Owner Kilgallen Kevin Avangrid Renewables, LLC Generation Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Li Zke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier Masson Gary McNees Wallace & Nurick LLC Other Supplier Massarelli Eva Dominion Virginia Power Company d/b/a Allegheny Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDaniel John Commonwealth of PA None Medez Victor <td>Jones</td> <td>Scott</td> <td>Indiana Office of Utility Consumer Counselor (IN OUCC)</td> <td>End-Use Customer</td>	Jones	Scott	Indiana Office of Utility Consumer Counselor (IN OUCC)	End-Use Customer
Kigallen Kevin Avangrid Renewables, LLC Generation Owner Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Mononan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner Other Supplier Transmission Owner Transmission Owner Transmission Owner None Other Supplier Transmission Owner None Other Supplier Transmission Owner None Transmission Owner None None Transmission Owner None Transmission Owner None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner	Kelly	Stephen	Brookfield Renewable Trading and Marketing LP (BSMH)	Other Supplier
Kirk Ryan AEP Appalachian Transmission Company, Inc. Transmission Owner Li Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Monan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Other Supplier Transmission Owner None Orne Other Supplier Transmission Owner None None None Ondayko Brock AEP Energy Partners, Inc. Other Supplier	Kempton	Nicholas	NRG Power Marketing LLC	Generation Owner
Li Kanning PJM Interconnection, LLC None Litzke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Miller John Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner None Other Supplier	Kilgallen	Kevin	Avangrid Renewables, LLC	Generation Owner
Litzke Jack PJM Interconnection, LLC None Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None None None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner Onder Supplier None Other Supplier Transmission Owner None Transmission Owner None None Ondayko Brock AEP Energy Partners, Inc. Other Supplier	Kirk	Ryan	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Lu Chen PJM Interconnection, LLC None Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier Mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ordayko Brock AEP Energy Partners, Inc.	Li	Kanning	PJM Interconnection, LLC	None
Lyakhovich Leonid Public Service Electric and Gas Company Transmission Owner Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Medez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Noil Jack PJM Intercon	Litzke	Jack	PJM Interconnection, LLC	None
Mabry David McNees Wallace & Nurick LLC None Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Lu	Chen	PJM Interconnection, LLC	None
Marhoefer Jay Intelligent Generation LLC Other Supplier mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Lyakhovich	Leonid	Public Service Electric and Gas Company	Transmission Owner
mason julie Duke Energy Ohio, Inc. Transmission Owner Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Mabry	David	McNees Wallace & Nurick LLC	None
Mason Gary Monongahela Power Company d/b/a Allegheny Power Transmission Owner Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Marhoefer	Jay	Intelligent Generation LLC	Other Supplier
Massarelli Eva Dominion Virginia Power Transmission Owner Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	mason	julie	Duke Energy Ohio, Inc.	Transmission Owner
Matheson he SYSO Inc. Other Supplier McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Mason	Gary	Monongahela Power Company d/b/a Allegheny Power	Transmission Owner
McDaniel John Baltimore Gas and Electric Company Transmission Owner McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Nonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Massarelli	Eva	Dominion Virginia Power	Transmission Owner
McDewell Christian Commonwealth of PA None Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Matheson	he	SYSO Inc.	Other Supplier
Mendez Victor Commonwealth Edison Company Transmission Owner Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	McDaniel	John	Baltimore Gas and Electric Company	Transmission Owner
Metz John University of Delaware None Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	McDewell	Christian	Commonwealth of PA	None
Miller John Calico Energy None Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Mendez	Victor	Commonwealth Edison Company	Transmission Owner
Noonan Casey PJM Interconnection, LLC None Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Metz	John	University of Delaware	None
Ondayko Brock AEP Energy Partners, Inc. Transmission Owner O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Miller	John	Calico Energy	None
O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Noonan	Casey	PJM Interconnection, LLC	None
O'Neill Jack PJM Interconnection, LLC None Osborn Eric EDF Trading North America, LLC Other Supplier	Ondayko	Brock	AEP Energy Partners, Inc.	Transmission Owner
	O'Neill	Jack	PJM Interconnection, LLC	None
Patel Harshil PJM Interconnection, LLC None	Osborn	Eric	EDF Trading North America, LLC	Other Supplier
	Patel	Harshil	PJM Interconnection, LLC	None



patel	keyurbhai	PJM Interconnection, LLC	None
Pilong	Christopher	PJM Interconnection, LLC	None
Rainey	John	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Richardson	Terrence	Duquesne Light Company	Transmission Owner
Rutledge	Craig	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Sasser	Jonathan	Customized Energy Solutions, Ltd.	None
Savage	Elizabeth	AES Solutions Management, LLC (ASMPPG)	None
Scheidecker	Paul	Monitoring Analytics, LLC	None
Scheirer	Alex	Gable and Associates	None
Schroeder	Connie	Dominion Virginia Power	Transmission Owner
Scott	Hugh	Baltimore Gas and Electric Company	Transmission Owner
Selick	Sam	Customized Energy Solutions, Ltd.	None
Shah	Vijay	PJM Interconnection, LLC	None
Simms	Mike	Duke Energy Ohio, Inc.	Transmission Owner
Simon	Emma	EDF Renewable Development, Inc.	None
Smith	Marelis	Public Service Electric and Gas Company	Transmission Owner
Stern	Alexander	Exelon Business Services Company, LLC	Transmission Owner
Strange	Robert	Yes Energy	None
Sturgeon	John	Duke Energy Business Services LLC	Transmission Owner
Sweeney	Rory	Northern Virginia Electric Cooperative (NOVEC)	Electric Distributor
Tao	Lili	Commonwealth Edison Company	Transmission Owner
Taylor	Daniel	PJM Interconnection, LLC	None
Taylor	Kaitlin	Dominion Virginia Power (LSE)	Transmission Owner
Trease	Rhett	Duke Energy Kentucky, Inc.	Transmission Owner
Tyler	Catherine	Monitoring Analytics, LLC	None
Uria	Ignacio	East Point Energy, LLC	None
Vanderlean	Bill	Illinois Commerce Commission	None
Veda	Santosh	Dominion Energy Generation Marketing, Inc.	Generation Owner
Vinnik	Daniel	PJM Interconnection, LLC	None
Wehnes	Kathleen	None	None
Werner	Christopher	AEP Appalachian Transmission Company, Inc.	Transmission Owner
Whitehead	Jeffrey	GT Power Group, LLC	None
Yeaton	Andrea	PJM Interconnection, LLC	None
Yoo	Kyungjin	PJM Interconnection, LLC	None
Zaccagnino	Michelle	Exelon Business Services Company, LLC	Transmission Owner
Zhang	Michael	PJM Interconnection, LLC	None
Zhou	Ming	DXT Commodities North America Inc.	Other Supplier
Zimmerman	Sean	PPL Electric Utilities Corp. dba PPL Utilities	Transmission Owner