



Interconnection Planning Subcommittee WebEx Only June 26, 2023 9:00 a.m. – 12:00 p.m. EPT

#### **Administration**

- 1. Jack Thomas, PJM, opened the meeting and reviewed the agenda. Ed Kovler, PJM, reviewed the Antitrust, Code of Conduct, and Public Meeting/Media Participation Guidelines.
- 2. Ed Kovler, PJM, reviewed the minutes from the May 25, 2023 meeting. The meeting minutes were approved by acclamation with no objections or abstentions.

#### Information

- 3. Jennie Speelman, PJM, provided an Interconnection Queue Status update and Transmission update.
- 4. Jonathan Thompson, PJM, reviewed readiness requirements.
- 5. Kyle Copeland, PJM, reviewed the Interim Deliverability study process improvements.
- 6. Onyinye Caven, PJM provided a manual summary level update.
- 7. PJM staff led the IPRTF Implementation Manual review.

| Future Meeting D | ates and Materials     | Materials Due | Materials     |               |  |
|------------------|------------------------|---------------|---------------|---------------|--|
| Date             | Time                   | Location      | to Secretary  | Published     |  |
| May 25, 2023     | 9:00 a.m. – 12:00 p.m. | Webex         | May 17, 2023  | May 22, 2023  |  |
| June 15, 2023    | 9:00 a.m. – 12:00 p.m. | Webex         | June 7, 2023  | June 12, 2023 |  |
| June 26, 2023    | 9:00 a.m. – 12:00 p.m. | Webex         | June 16, 2023 | June 21, 2023 |  |
| July 31, 2023    | 9:00 a.m. – 12:00 p.m. | Webex         | July 21, 2023 | July 26, 2023 |  |

Author: Ed Kovler

#### WebEx Meeting Attendance

| Last        | First     | Company                                  | Sector       |
|-------------|-----------|--|--------------|
|             |           |  | Transmission |
| Adams       | Darrin    | East Kentucky Power Cooperative, Inc.    | Owner        |
| Alva        | Christian | Scout Clean Energy LLC                   | None         |
| Andalora    | Christina | PJM Interconnection, LLC                 | None         |
| Anders      | David     | PJM Interconnection, LLC                 | None         |
| Andrus      | Sydney    | PGRENEWABLES Interconnection, LLC        | None         |
| Archambault | Miah      | Enel Trading North America, LLC          | None         |
| Atejero     | Pablo     | Acciona Energy North America Corporation | None         |





|             |           |  | Transmission       |
|-------------|-----------|--|--------------------|
| Aurely      | Marc      | FirstEnergy Corporation                        | Owner              |
| Awasthi     | Shekhar   | PJM Interconnection, LLC                       | None               |
| Barker      | Jason     | Constellation Energy Generation, LLC           | Generation Owner   |
|             |           |  | Transmission       |
| Benchek     | Jim       | American Transmission Systems, Inc.            | Owner              |
|             |           |  | Transmission       |
| Benson      | Dan       | Duke Energy Business Services LLC              | Owner              |
| Bhowmik     | Sudipto   | IBV Energy                                     | None               |
| Bothwell    | Cynthia   | DOE  | None               |
| Boyd        | Jamie     | NJR Clean Energy Ventures III Corporation      | Generation Owner   |
| Brahman     | Azade     | Orsted US Trading LLC                          | None               |
| Brandt      | Andreas   | Commonwealth Edison Company                    | Transmission Owner |
| Brecke      | Tracy     | Mitsubishi Electric Power Products (MEPPI) USA | None               |
| Brier       | Austin    | Urban Grid Solar Projects, LLC                 | Other Supplier     |
| Callen      | Zachary   | Illinios Commerce Commission                   | None               |
| Cantave     | Jean      | Urban Grid Solar Projects, LLC                 | None               |
| carmean     | greg      | Organization of PJM States, Inc. (OPSI)        | None               |
| Carmean     | Gregory   | Organization of PJM States, Inc. (OPSI)        | None               |
| Carrier     | Ron       | Big Lake Consulting                            | None               |
| Chen        | JC        | Enplus Consulting                              | None               |
| <u> </u>    |           |  | Transmission       |
| Christopher | Elie,     | Duke Energy Business Services LLC              | Owner              |
| Christopher | Mahila    | Public Utilities Commission of Ohio (The)      | None               |
| Clifford    | Brigid    | PG Renewables                                  | None               |
|             |           |  | Transmission       |
| Clifford    | Kyle      | PECO Energy Company                            | Owner              |
|             |           |  | Transmission       |
| Cohn        | Charlotte | Rockland Electric Company                      | Owner              |
| Cox         | Jason     | Dynegy Power Marketing, Inc.                   | Generation Owner   |
| Dada        | Noorgul   | PJM Interconnection, LLC                       | None               |
| dadourian   | john      | Monitoring Analytics, LLC                      | None               |
| Davis       | David     | Strata Solar                                   | None               |
| Davis       | Jim       | Dominion Energy Generation Marketing, Inc.     | Generation Owner   |
| DeAngelis   | Tom       | East Point Energy                              | None               |
| Del Olmo    | Rizki     | PJM Interconnection, LLC                       | None               |
| Denby       | Brett     | NOVEC  | None               |
| Dierksheide | Andrew    | IGS Energy                                     | None               |
| Dixit       | Anuj      | Recurrent Energy, LLC                          | Other Supplier     |
| Dixon       | Nathan    | LS Power                                       | None               |





| Doering     | Anthony   | Savion, LLC                                    | None               |
|-------------|-----------|--|--------------------|
| Duet        | Candice   | PJM Interconnection, LLC                       | None               |
| Edgar-Smith | Collin    | PJM Interconnection, LLC                       | None               |
| Edmonds     | Brian     | DC Public Service Commission                   | None               |
| Elkhatib    | Mohamed   | Arup   | None               |
| Ericson     | Christine | Illinois Commerce Commission                   | None               |
| Esber       | Ken       | None   | None               |
| Faisal      | Akim      | PJM Interconnection, LLC                       | None               |
| Fall        | Maguette  | EDF Renewable Energy                           | None               |
| Fernandes   | Anisha    | PJM Interconnection, LLC                       | None               |
| Filomena    | Guy       | Customized Energy Solutions, Ltd.*             | None               |
| Fink        | Regan     | Pine Gate Mid-Atlantic, LLC                    | Other Supplier     |
| Fink        | Sari      | American Clean Power Association               | None               |
| Foladare    | Kenneth   | Geenex Solar LLC                               | Other Supplier     |
| Ford        | Adrien    | Constellation Energy Generation, LLC           | None               |
| Ford        | Nicholas  | Hexagon Energy                                 | None               |
| Franks      | Edmund    | PJM Interconnection, LLC                       | None               |
| Freeman     | Jef       | Dominion Energy Generation Marketing, Inc.     | Generation Owner   |
| Fronsdahl   | Nicole    | 1898 and Co.                                   | None               |
| Fultz       | McClain   | PPL Electric Utilities Corp. dba PPL Utilities | None               |
| Gallego     | Pablo     | Acciona Energy North America Corporation       | Generation Owner   |
| Ghosh       | Josh      | CC Renew                                       | None               |
| Gilani      | Rehan     | ConEdison Energy, Inc.                         | Other Supplier     |
| Glazer      | Grant     | RMI  | None               |
| Glynn       | Mike      | Acciona Energy North America Corporation       | None               |
| Gordon      | Jon       | Shipley Choice, LLC                            | Other Supplier     |
| Green       | Chris     | Tri Global Energy, LLC                         | None               |
| Greenberg   | Aaron     | Oriden Power                                   | None               |
| Greene      | Ben       | AEP  | None               |
| Greening    | Michele   | PJM Interconnection, LLC                       | None               |
| Grigsby     | Addison   | AES Ohio Generation, LLC                       | Generation Owner   |
| Grobbelaar  | Willem    | Urban Grid Solar Projects, LLC                 | Other Supplier     |
|             |           |  | Transmission       |
| Gunn        | Garan     | Public Service Electric & Gas Company          | Owner              |
| Gupta       | R         | ECOPLEXUS Interconnection, LLC                 | None               |
| Gupta       | Rishabh   | Ecoplexus Inc                                  | None               |
| Hallett     | Brian     | FirstEnergy Corporation                        | Transmission Owner |
| Han         | Minnie    | Enel Trading North America, LLC                | Other Supplier     |





| Harris Ke Hastings Da Hazel Ste Herel Su Herman M Hernanz Ra | evin avid teve uzanne lichael afa        | Tenaska Power Services Co.  PECO Energy Company  Market Interconnection Consulting Services (MICS)  GEENEXSOLAR Interconnection, LLC  PJM Interconnection, LLC  PJM Interconnection, LLC  7al Vide Hornary @ Assigna | Generation Owner Transmission Owner None None None None |
|--|--|--|---|
| Hastings Da Hazel Ste Herel Su Herman M Hernanz Ra           | avid<br>teve<br>uzanne<br>1ichael<br>afa | Market Interconnection Consulting Services (MICS) GEENEXSOLAR Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC   | Owner None None   |
| Hastings Da Hazel Ste Herel Su Herman M Hernanz Ra           | avid<br>teve<br>uzanne<br>1ichael<br>afa | Market Interconnection Consulting Services (MICS) GEENEXSOLAR Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC   | None<br>None  |
| Hazel Steller Sulferman M Hernanz Ra                         | teve<br>uzanne<br>1ichael<br>afa         | GEENEXSOLAR Interconnection, LLC PJM Interconnection, LLC PJM Interconnection, LLC   | None<br>None  |
| Herel Su<br>Herman M<br>Hernanz Ra                           | uzanne<br>Iichael<br>afa                 | PJM Interconnection, LLC PJM Interconnection, LLC  | None  |
| Herman M<br>Hernanz Ra                                       | 1ichael<br>afa                           | PJM Interconnection, LLC   |   |
| Hernanz Ra   | afa                                      |  | None  |
|  |  | 7al Vida Harnanz@Assiana   | INOTIE  |
| Hibshman M   | lichael                                  | Zal Vide.Hernanz@Acciona   | None  |
|  | licitaei                                 | Hexagon Energy   | None  |
| Hipkins Ja:  | ason                                     | Solunes Co.  | None  |
| Hirschhorn M   | 1artin                                   | CSP Renewables   | None  |
|  |  |  | Transmission  |
| Hitt Ja:   | ason                                     | Duquesne Light Company   | Owner   |
| Hoatson To   | om                                       | Riverside Generating, LLC  | Generation Owner  |
| Hohenshilt Je  | ennifer                                  | Talen Energy Marketing, LLC  | Generation Owner  |
| Horning Ly   | ynn                                      | American Municipal Power, Inc.   | Electric Distributor                                    |
|  |  |  | Transmission  |
| Horstmann Jo   | ohn                                      | Dayton Power & Light Company (The)   | Owner   |
| Hoshmand M   | 1ojtaba                                  | PJM Interconnection, LLC   | None  |
| Howe Cu  | ullen                                    | Natural Resources Defense Council  | None  |
| Huff Du  | ustin                                    | EDP Renewables North America LLC   | Other Supplier  |
| Hugee Ja   | acqui                                    | Dominion Energy Generation Marketing, Inc.   | Generation Owner  |
| Hull Ge  | erit                                     | American Municipal Power, Inc.   | Electric Distributor                                    |
|  |  |  | Transmission  |
| Hurban Ric   | ick                                      | AEP Appalachian Transmission Company, Inc.   | Owner   |
| Hyzinski To  | om                                       | GT Power Group   | None  |
| Ichter Ch  | hris                                     | CEP Renewables   | None  |
| Isaac Ca   | arlos                                    | Exelon Business Services Company, LLC  | None  |
| lwari PT   | Т  | HODSONINC Interconnection, LLC   | None  |
| Jablonski W  | /ard                                     | Mitsubishi Electric Power Products, Inc.   | None  |
| Jalloh Ab  | bu                                       | ConEdison Energy, Inc.   | None  |
| Janapareddy Ar   | nu                                       | Green River Holdings, LLC  | Generation Owner  |
| Johnson Ca   | arl                                      | Customized Energy Solutions, Ltd.*   | None  |
| Johnson Je   | essica                                   | Timmons Group  | None  |
| Jonas Aa   | aron                                     | Dominion Energy Generation Marketing, Inc.   | Generation Owner  |
| Jones Pe   | eter                                     | Energy Endeavors, LLC  | Other Supplier  |
|  | cott                                     | Indiana Office of Utility Consumer Counsel   | End-Use Customer  |
|  | ania                                     | Dominion Virginia Power  | None  |





|             |            |  | Transmission       |
|-------------|------------|--|--------------------|
| Kadous      | Mohamed    | AEP Appalachian Transmission Company, Inc.     | Owner              |
| Karki       | Mahesh     | Savion, LLC                                    | None               |
| Kelley      | Liam       | Recurrent Energy, LLC                          | None               |
| Kelly       | Stephen    | Brookfield Energy Marketing LP                 | Other Supplier     |
|             |            |  | Transmission       |
| Kent        | Janessa    | Duquesne Light Company                         | Owner              |
| Kilgallen   | Kevin      | Avangrid Renewables LLC                        | Generation Owner   |
| Kinney      | Josh       | Hexagon Energy                                 | None               |
|             |            |  | Transmission       |
| Kirk        | Steven     | NextEra Energy Transmission, LLC               | Owner              |
| Koepplinger | Alexandria | Michigan Public Service Commission             | None               |
| Kogut       | George     | New York Power Authority                       | Other Supplier     |
| Kovler      | Ed         | PJM Interconnection, LLC                       | None               |
| Kramp       | Peter      | PJM Interconnection, LLC                       | None               |
| Krizenoskas | Lisa       | PJM Interconnection, LLC                       | None               |
|             |            |  | Transmission       |
| Kuchan      | Meagan     | PPL Electric Utilities Corp. dba PPL Utilities | Owner              |
|             |            |  | Transmission       |
| Laios       | Takis      | AEP Appalachian Transmission Company, Inc.     | Owner              |
| Lambert     | Andrew     | PJM Interconnection, LLC                       | None               |
| Landa       | Bulmaro    | Algonquin Energy Services, Inc.                | Generation Owner   |
| Lapierre    | Nate       | Cobia Power                                    | None               |
|             |            |  | Transmission       |
| LaVista     | William    | Public Service Electric & Gas Company          | Owner              |
| Lichtin     | Steven     | Go Electric Inc.                               | None               |
| Lin         | Chenxi     | Jacobs   | None               |
| Liu         | Jenny      | Jupiter Power LLC                              | Other Supplier     |
| Lopez       | Annie      | East Point Energy                              | None               |
| Lopez-Lopez | Anthony    | Bryndan Associates, Inc.                       | None               |
|             |            |  | Transmission       |
| Lousos      | Alexandros | AMP Transmission, LLC                          | Owner              |
| Louwahi     | Soufiane   | Electric Power Engineers Consulting            | None               |
|             |            |  | Transmission       |
| Lyakhovich  | Leonid     | Public Service Electric & Gas Company          | Owner              |
| Mabry       | David      | McNees Wallace & Nurick LLC                    | None               |
| Marker      | Jerod      | AEP Ohio Transmission Company, Inc.            | Transmission Owner |
|             |            |  |                    |
| Martín      | Jorge      | Abei Energy                                    | None Transmission  |
| Mason       | Julie M.   | Duke Energy Ohio, Inc.                         | Owner              |
| IVIASUII    | Julie IVI. | Duke Lifetgy Offic, Inc.                       | OWITEI             |





|            |           |   | Transmission          |
|------------|-----------|---|-----------------------|
| Mateja     | Steven    | Commonwealth Edison Company                       | Owner                 |
| Mattson    | Lisa      | Avangrid Renewables, LLC                          | Generation Owner      |
| mazari     | shukul    | Savion, LLC                                       | None                  |
| McClelland | Maura     | Public Utilities Commission of Ohio               | None                  |
| McDewell   | Christian | Commonwealth of PA                                | None                  |
| McGuckin   | Mick      | Soogreen  | None                  |
| McLaughlin | Jeffrey   | PJM Interconnection, LLC                          | None                  |
| McNicholas | Daniel    | Cogentrix Virginia Financing Holding Company, LLC | Other Supplier        |
| Mekala     | Karthik   | RWE Renewables Americas, LLC                      | Generation Owner      |
| Midgley    | Sharon    | Exelon Business Services Company, LLC             | Transmission<br>Owner |
| Mihaly     | Imola     | Essential Power LLC                               | Generation Owner      |
| Moff       | Justin    | FirstEnergy Corporation                           | None                  |
| Mohler     | Tina      | PJM Interconnection, LLC                          | None                  |
| Moore      | Paula     | PJM Interconnection, LLC                          | None                  |
| Moreno     | Claudio   | Acciona Energy North America Corporation          | None                  |
| Murphy     | Shaun     | Urban Grid Solar Projects, LLC                    | Other Supplier        |
| Neal       | Steven    | PJM Interconnection, LLC                          | None                  |
| Neha       | Farah     | Advantage Cap                                     | None                  |
| Nelson     | Steve     | Burns & McDonnell                                 | None                  |
| Nestel     | Stacey    | PJM Interconnection, LLC                          | None                  |
| Nguyen     | Sonny     | Urban Grid Solar Projects, LLC                    | Other Supplier        |
| Nitchie    | Laura     | PJM Interconnection, LLC                          | None                  |
| Noel Jeune | Reynaldo  | Acciona Energy North America Corporation          | Generation Owner      |
| O'Brien    | Shane     | Aypa Power  | None                  |
| ODonnell   | Colleen   | PUCO Ohio Gov.                                    | None                  |
| O'Hara     | Bernard   | Sargent & Lundy                                   | None                  |
|            |           |   | Transmission          |
| Ondayko    | Brock     | AEP Appalachian Transmission Company, Inc.        | Owner                 |
| Panegal    | Ash       | Apex Clean Energy                                 | None                  |
| Pastor     | Fernando  | Abei Energy                                       | None                  |
| Patel      | Komal     | PJM Interconnection, LLC                          | None                  |
| Patricia   | Vallejo,  | NextEra Energy Power Marketing, LLC               | Other Supplier        |
| Patt       | Kate      | PJM Interconnection, LLC                          | None                  |
| Peters     | Ignatius  | Burns & McDonnell                                 | None                  |
| Pham       | Вао       | Old Dominion Electric Cooperative                 | Electric Distributor  |
| Potter     | Jeff      | Renewable Energy International LLC                | None                  |
| Ptak       | Anton     | EDF Renewable Energy                              | None                  |
| Puskuru    | Sandeep   | C Onedceb   | None                  |





| Rainey       | John      | Northern Virginia Electric Cooperative   | Electric Distributor  |
|--------------|-----------|--|-----------------------|
| Rana         | Deepesh   | Apex Clean Energy                        | None                  |
| Ranaweera    | Aruna     | Hecate Energy                            | None                  |
| Rasmussen    | Jay       | Duke Energy Business Services LLC        | Transmission<br>Owner |
| Rebman       | Karly     | Acciona Energy North America Corporation | None                  |
| Redding      | Andrew    | Heelstone Renewable Energy               | None                  |
| Reiter       | Heather   | PJM Interconnection, LLC                 | None                  |
| Richards     | Donald    | Novaridge                                | None                  |
| Richards Jr. | Cleveland | Price Waterhouse Cooper                  | None                  |
| Rigoberto    | Milla,    | NextEra Energy Marketing, LLC            | Other Supplier        |
| Riley        | Bob       | Williams Mullen                          | None                  |
| Roach        | Austin    | Acciona Energy North America Corporation | None                  |
| Robichaud    | Donna     | Geenex Solar LLC                         | Other Supplier        |
| Robison      | Michael   | FirstEnergy Corporation                  | None                  |
| Rohankar     | Ajinkya   | BayWa Renewables                         | None                  |
| Rohs         | Fred      | Marina Energy, LLC                       | Generation Owner      |
|              |           |  | Transmission          |
| Roychowdhury | Rajarshi  | Dayton Power & Light Company             | Owner                 |
| Rumler       | Ed        | Atlas Renewable Energy                   | None                  |
| Santos       | Antonio   | EDF Renewable Energy                     | None                  |
| Sasser       | Jonathan  | Customized Energy Solutions, Ltd.*       | None                  |
| Scheidecker  | Paul      | Monitoring Analytics, LLC                | None                  |
| Scherer      | Paul      | Commonwealth Edison Company              | Transmission<br>Owner |
| Seeley       | Dylan     | PJM Interconnection, LLC                 | None                  |
| Selick       | Sam       | Customized Energy Solutions, Ltd.*       | None                  |
| Sengupta     | Swagata   | Public Service Electric & Gas Company    | Transmission<br>Owner |
| Shambeau     | Edward    | Brookfield Energy Marketing LP           | None                  |
| Silver       | David     | AEP                                      | None                  |
| Singh        | Harliv    | Northern States Power Company            | Other Supplier        |
| Singh        | Ruchi     | Duquesne Light Company                   | Transmission<br>Owner |
| Sparks       | Bridget   | Dayton Power & Light Company (The)       | Transmission<br>Owner |
| Stanfill     | Susan     | Pine Gate Mid-Atlantic, LLC              | Other Supplier        |
| Steely       | Aaron     | CC Renew                                 | None                  |
| Stolz        | Chris     | Pine Gate Mid-Atlantic, LLC              | Other Supplier        |
| Street       | Jason     | AES Ohio Generation, LLC                 | Generation Owner      |





| Strom      | Ryan      | Buckeye Power, Inc.                            | Electric Distributor |
|------------|-----------|--|----------------------|
| Stupar     | Rob       | Invenergy, LLC                                 | Generation Owner     |
| Sunderman  | Derek     | Tradewind Energy, Inc.                         | None                 |
| Swalwell   | Brad      | Tangent Energy Solutions, Inc.                 | Other Supplier       |
| Sweeney    | Rory      | GT Power Group                                 | None                 |
| szot       | lisa      | Szot Energy Services, LLC                      | None                 |
| T. Wilson  | De Andre  | Maryland Public Service Commission             | None                 |
| Tekle      | Zelalem   | Rev Renewables                                 | None                 |
| Thakur     | Seema     | DOMINIONENERGY Interconnection, LLC            | None                 |
| Thomas     | Jack      | PJM Interconnection, LLC                       | None                 |
| Thompson   | Collin    | AES Ohio Generation, LLC                       | Generation Owner     |
| Thornton   | Matthew   | Long Road Energy                               | None                 |
| Tiwari     | Megha     | PJM Interconnection, LLC                       | None                 |
| Tomasello  | Joelle    | PJM Interconnection, LLC                       | None                 |
| Торро      | Shilpa    | 174 Power Global                               | None                 |
| Tse        | Samantha  | BPU.NJ Interconnection, LLC                    | None                 |
| Uddin      | Shahab    | Old Dominion Electric Cooperative              | Electric Distributor |
| Van Ness   | Zachery   | PJM Interconnection, LLC                       | None                 |
| VanBlargan | Bryna     | Resource Investments                           | None                 |
| Villarreal | Jose I    | Acciona Energy North America Corporation       | Generation Owner     |
| vogel      | charles   | Oriden Power                                   | None                 |
| Wagner     | Emily     | Galehead Development                           | None                 |
| Walcavich  | Colin     | National Grid Renewables, LLC                  | None                 |
| Walwer     | Catherine | CC Renew                                       | None                 |
| Wang       | Bruce     | Urban Grid Solar Projects, LLC                 | None                 |
| Wehnes     | Kathleen  | Maryland Public Service Commission             | None                 |
| Welch      | Shawn     | Doral LLC                                      | None                 |
| Whitehead  | Jeff      | GT Power Group                                 | None                 |
| Williams   | Nicholas  | PSEG   | None                 |
| Winterling | Adrianne  | PEPCO Holdings, Inc.                           | None                 |
| Wolfe      | Art       | PJM Interconnection, LLC                       | None                 |
| Woo        | Dansol    | Samsung  | None                 |
| Wylie-     |           |  | Transmission         |
| Chambers   | Ericka    | Exelon Business Services Company, LLC          | Owner                |
| Yi         | Salvia    | PJM Interconnection, LLC                       | None                 |
| Ynaya      | Mariel    | Tenaska Power Services Co.                     | Generation Owner     |
|            |           |  | Transmission         |
| Young      | Brandon   | Public Service Electric & Gas Company          | Owner                |
| Voyanovish | Laura     | DDI Flortric Utilities Corp. dbs DDI Utilities | Transmission         |
| Yovanovich | Laura     | PPL Electric Utilities Corp. dba PPL Utilities | Owner                |





Zhu Kun Sun Energy None

