discuss case studies and share existing challenges and future goals.

The Key Role of Extended ACOPF-Based Decision Making for Supporting Clean, Cost-Effective and Reliable/Resilient Electricity Services

Maria Iilic, Professor Emerita, Carnegie Mellon University (Pittsburgh, PA)
Rupamathi Jaddivada, Director of Innovation, SmartGridz (Boston, MA)
Jeffrey Lang, Vitesse Professor, Massachusetts Institute of Technology (Cambridge, MA)
Eric Allen, Director of Engineering, SmartGridz (Boston, MA)

Societal objectives are rapidly moving towards decarbonized, affordable, and reliable/resilient electricity services. In this talk we first revisit these objectives by identifying basic changes and the related challenges taking place. In particular, decarbonization requires planning and operations of the changing electric energy systems so that seamless integration of clean resources, ranging across wind, solar, nuclear, geothermal, and hydro, is enabled. Notably, this must be done with an eye on generation adequacy. Also, these new resources present locational issues (NIMBY) in operating the existing power grid. Finally, the end users still must be served without interruptions and without being exposed to wide-spread blackouts. Similar challenges are related to ensuring cost-effective and reliable/resilient services. Second, we show how an extended (robust, adaptive, multi-temporal) ACOPF is essential for meeting these societal challenges. Pretty much any of the new software needed (for wind integration, resilient service, and preventing blackouts) requires effective optimization tools for identifying the main bottlenecks/obstacles to physical implementation and for advising operators and planners regarding the most effective remedial actions (new investments and/or flexible utilization). We illustrate potential benefits from utilizing ACOPF as a basic means of supporting software tools needed for meeting the societal challenges. We offer a taxonomy of such badly needed tools and illustrate the role of extended ACOPF estimated benefits on several real-world systems based on our work to-date.

Data & API Standards for Clean Energy Solutions and Digital Innovation

Priya Barua, Director of Market Policy and Innovation, Clean Energy Buyers Institute (Washington, DC)
Ben Gerber, President & CEO, M–RETS (Minneapolis, MN)

There is an opportunity for energy attribute certificate (EAC) issuing bodies in the U.S. and abroad to enable next generation carbon-free electricity (CFE) procurement solutions that accelerate grid decarbonization investments by capturing more attributes and better serving as a digital ''platform of platforms''. Energy customers who buy clean energy rely on EACs to assert ownership claims over each megawatt-hour of CFE they procure for auditing, reporting, and marketing purposes. EAC issuing bodies promote CFE procurement integrity and validation by issuing, tracking, and canceling EACs, which each represent a unique standardized tradable instrument representing one megawatt-hour of verified CFE generation. By adopting open data and automated programming interface (API) standards, EAC issuing bodies can improve data access and solutions for customers. This session will explore opportunities for EAC issuing bodies to establish consistent, modern automated programming interfaces (APIs), template legal agreements, and other tools that will make it easier for data providers to deliver data and for users to update the status of EACs through connected digital trading platforms— enabling innovation for CFE procurement solutions.

Mine Production Scheduling Under Time-of-Use Power Rates With Renewable Energy Sources

Dr. Daniel Bienstock, Professor, Columbia University (New York, NY)
Amy Mcbrayer, Ph.D. Candidate, South Dakota School of Mines (Rapid City, SD)
Andrea Brickey, Professor, South Dakota School of Mines (Rapid City, SD)
Alexandra Newman, Professor, Colorado School of Mines (Golden, CO)

Renewable energy use on active and reclaimed mine lands has increased dramatically in recent years. With mining companies focused on increasing efficiencies, reducing carbon intensity, and developing sustainable mining practices, opportunity exists to integrate data on electricity usage and demand into mine production schedules to capitalize on alternative energy sources and to take advantage of favorable pricing strategies. Utilizing real data from an active coal mine that has already integrated electric equipment into their loading fleet, we show the impacts of (i) seasonal power price fluctuations on a medium-term production schedule; and, (ii) hourly power price fluctuations on a short-term extraction schedule. Results reveal the economic potential both for: (i) the integration of renewable energy sources on reclaimed and active mine lands; and (ii), the corresponding synchronization of a production schedule with time-of-use energy pricing contracts.

[FR Doc. 2023–13168 Filed 6–20–23; 8:45 am]

BILLING CODE 6717–01–P

## DEPARTMENT OF ENERGY

### Federal Energy Regulatory Commission

**[Docket No. ER23–2130–000]**

### Glover Creek Solar, LLC; Supplemental Notice That Initial Market-Based Rate Filing Includes Request for Blanket Section 204 Authorization

This is a supplemental notice in the above-referenced proceeding of Glover Creek Solar, LLC's application for market-based rate authority, with an accompanying rate tariff, noting that such application includes a request for blanket authorization, under 18 CFR part 34, of future issuances of securities and assumptions of liability.

Any person desiring to intervene or to protest should file with the Federal Energy Regulatory Commission, 888 First Street NE, Washington, DC 20426, in accordance with Rules 211 and 214 of the Commission's Rules of Practice and Procedure (18 CFR 385.211 and 385.214). Anyone filing a motion to intervene or protest must serve a copy of that document on the Applicant.

Notice is hereby given that the deadline for filing protests with regard to the applicant's request for blanket authorization, under 18 CFR part 34, of future issuances of securities and assumptions of liability, is July 5, 2023.

The Commission encourages electronic submission of protests and interventions in lieu of paper, using the FERC Online links at *http://www.ferc.gov.* To facilitate electronic service, persons with internet access who will eFile a document and/or be listed as a contact for an intervenor must create and validate an eRegistration account using the eRegistration link. Select the eFiling link to log on and submit the intervention or protests.

Persons unable to file electronically may mail similar pleadings to the Federal Energy Regulatory Commission, 888 First Street NE, Washington, DC 20426. Hand delivered submissions in docketed proceedings should be delivered to Health and Human Services, 12225 Wilkins Avenue, Rockville, Maryland 20852.

In addition to publishing the full text of this document in the **Federal Register**, the Commission provides all interested persons an opportunity to

view and/or print the contents of this document via the internet through the Commission's Home Page (*http://www.ferc.gov*) using the ''eLibrary'' link. Enter the docket number excluding the last three digits in the docket number field to access the document. At this time, the Commission has suspended access to the Commission's Public Reference Room, due to the proclamation declaring a National Emergency concerning the Novel Coronavirus Disease (COVID–19), issued by the President on March 13, 2020. For assistance, contact the Federal Energy Regulatory Commission at *FERCOnlineSupport@ferc.gov* or call toll-free, (886) 208–3676 or TYY, (202) 502–8659.

The Commission's Office of Public Participation (OPP) supports meaningful public engagement and participation in Commission proceedings. OPP can help members of the public, including landowners, environmental justice communities, Tribal members and others, access publicly available information and navigate Commission processes. For public inquiries and assistance with making filings such as interventions, comments, or requests for rehearing, the public is encouraged to contact OPP at (202)502–6595 or *OPP@ferc.gov*.

Dated: June 14, 2023.

**Debbie-Anne A. Reese,**

*Deputy Secretary.*

[FR Doc. 2023–13163 Filed 6–20–23; 8:45 am]

**BILLING CODE 6717–01–P**

## DEPARTMENT OF ENERGY

### Federal Energy Regulatory Commission

### Combined Notice of Filings # 1

Take notice that the Commission received the following electric corporate filings:

*Docket Numbers:* EC23–98–000.

*Applicants:* Glover Creek Solar, LLC,PGR 2022 Lessee 9, LLC.

*Description:* Joint Application for Authorization Under Section 203 of the Federal Power Act of Glover Creek Solar, LLC, et al.

*Filed Date:* 6/13/23.

*Accession Number:* 20230613–5176.

*Comment Date:* 5 p.m. ET 7/5/23.

Take notice that the Commission received the following exempt wholesale generator filings:

*Docket Numbers:* EG23–195–000.

*Applicants:* DeCordova BESS LLC.

*Description:* DeCordova BESS LLC submits Notice of Self-Certification of Exempt Wholesale Generator Status.

*Filed Date:* 6/13/23.

*Accession Number:* 20230613–5142.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* EG23–196–000.

*Applicants:* Crane 2 BESS, LLC.

*Description:* Crane 2 BESS, LLC submits Notice of Self-Certification of Exempt Wholesale Generator Status.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5077.

*Comment Date:* 5 p.m. ET 7/5/23.

Take notice that the Commission received the following electric rate filings:

*Docket Numbers:* ER15–1706–005.

*Applicants:* Newark Energy Center, LLC.

*Description:* Newark Energy Center LLC submits Supplement to Informational Filing, Request for Prospective One-Time Waiver, Shortened Comment Period, Expedited Consideration, and Confidential Treatment.

*Filed Date:* 6/9/23.

*Accession Number:* 20230609–5217.

*Comment Date:* 5 p.m. ET 6/20/23.

*Docket Numbers:* ER17–1531–009.

*Applicants:* CPV Fairview, LLC.

*Description:* Notice of Change in Status of CPV Fairview, LLC.

*Filed Date:* 6/13/23.

*Accession Number:* 20230613–5173.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER22–962–004.

*Applicants:* PJM Interconnection, L.L.C.

*Description:* Compliance filing: Order No. 2222 Compliance and Request for Action by November 30, 2023 to be effective 7/1/2023.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5084.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER23–739–001.

*Applicants:* ISO New England Inc., Eversource Energy Service Company (as agent), New England Power Pool Participants Committee, The United Illuminating Company.

*Description:* Tariff Amendment: ISO New England Inc. submits tariff filing per 35.17(b): ISO-NE; Deficiency Response—Treatment of Storage as Transmission-Only Assets to be effective 12/31/9998.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5032.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER23–743–001.

*Applicants:* ISO New England Inc., Eversource Energy Service Company (as agent), The United Illuminating Company, New England Power Pool Participants Committee.

*Description:* Tariff Amendment: ISO New England Inc. submits tariff filing per 35.17(b): ISO-NE; Deficiency Response—Treatment of Storage as Transmission-Only Assets to be effective 12/31/9998.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5034.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER23–2134–000.

*Applicants:* Midcontinent Independent System Operator, Inc., Ameren Illinois Company.

*Description:* § 205(d) Rate Filing: Midcontinent Independent System Operator, Inc. submits tariff filing per 35.13(a)(2)(iii): 2023–06–14_SA 3028 Ameren IL-Prairie Power Project #34 Westridge to be effective 8/14/2023.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5024.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER23–2135–000.

*Applicants:* PJM Interconnection, L.L.C.

*Description:* § 205(d) Rate Filing: Original IISA, SA No. 6950 and ICSA, SA No. 6951; Queue No. AF2–222 to be effective 5/15/2023.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5040.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER23–2136–000.

*Applicants:* PJM Interconnection, L.L.C.

*Description:* Tariff Amendment: Notice of Cancellation of ISA, SA No. 2547, Queue No. S29B to be effective 6/14/2023.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5055.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER23–2137–000.

*Applicants:* Northern States Power Company, a Minnesota corporation.

*Description:* § 205(d) Rate Filing: 2023–6–14 NSP BLUE CIAC 735–NSP to be effective 6/15/2023.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5056.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER23–2138–000.

*Applicants:* Midcontinent Independent System Operator, Inc., Ameren Illinois Company.

*Description:* § 205(d) Rate Filing: Midcontinent Independent System Operator, Inc. submits tariff filing per 35.13(a)(2)(iii): 2023–06–14_SA 4085 Ameren IL–SIPC Interconnection Agreement to be effective 8/14/2023.

*Filed Date:* 6/14/23.

*Accession Number:* 20230614–5087.

*Comment Date:* 5 p.m. ET 7/5/23.

*Docket Numbers:* ER23–2139–000.

*Applicants:* Interstate Power and Light Company.

*Description:* § 205(d) Rate Filing: Interstate Power and Light Company