

Studies Subcommittee

Meeting Minutes

January 19, 2022

Virtual

1. Welcome, Call to Order

Philip Augustin, Studies Subcommittee (StS) Chair, called the meeting to order at 10:00 a.m. on January 19, 2022 MT. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

2. Review WECC Antitrust Policy

Mr. Jensen, read aloud the WECC Antitrust Policy statement. The meeting agenda included a link to the posted policy.

3. Approve Agenda

Mr. Augustin introduced the proposed meeting agenda.

Modifications were made.

On a motion by Peter Mackin, the StS approved the agenda.

4. Review and Approve Previous Meeting Minutes

Mr. Augustin introduced the minutes from the meeting on December 1, 2022.

On a motion by Peter Mackin, the StS approved the minutes from December 1, 2022.

5. Review Previous Action Items

Mr. Augustin reviewed action items carried over from the StS meeting on December 1, 2022. Action items that are not closed and will be carried forward can be found here.

6. Study Program Next Steps

Kirha Quick, Project Coordinator, spoke about the next two studies that includes the Variability Loads and Resources, and the Extreme Events. February 9, 2022 there will be a two week open window to for comments. March 2, 2022 there will be a request for final approval. To help make it clearer the DER report cleanup was intensive. The final report will be requested for approval today.



7. Report Review

Mr. Jensen presented the changes made to the DER report that was originally approved on 12-1-2021. The content was not changed just some of the wording, and a few graphs that weren't needed.

The presentation is posted to the WECC website.

8. Approval Items

Approval Item: Impact of Distributed Energy Resources Assessment.

On a motion by Peter Mackin, the StS approved the Impact of Distributed Energy Resources Assessment.

9. UFLSWG Update

Hari Singh presented an update on Under Frequency Load Shedding Work (UFLSWG). He held an open discussion on how to get feedback, and participation due to difficulties with the software to complete the under-frequency load simulations. The simulation ran great at 10% but ran into issues when running the 20% imbalance. The simulation results don't look very good. The models might be pushed beyond their limit. A solution is being investigated. If under 25% of under frequency load shedding can't be done, then changes need to be made. The UFLSWG is having low indication of interest, and currently needs a vice chair. The StS discussed sending an announcement letter asking for a chair, and the vice-chair at the RAC level. Mr. Jensen will draft the letter.

10. Public Comment

No comments were offered.

11. Review New Action Items

- Jon Jensen draft letter to request and chair and vice chair for USLSWG. Send to the RAC distribution list.
 - o Assigned To: Jon Jensen, and Phillip Augustin
 - o Due Date: February 9, 2022

12. Upcoming Meetings

February 9, 2022	Virtual
March 2, 2022	Virtual*
March 23, 2022	Virtual*



*Meeting may be virtual due to the COVID-19 pandemic.

13. Adjourn

Mr. Augustin adjourned the meeting without objection at 11:00 a.m.



Exhibit A: Attendance List

Members in Attendance

Philip Augustin	Salt River Project
Scott Beyer	Northwest Power Pool Corporation
Thomas Carr	
Ken Che	Public Utility District No. 1 of Snohomish County
Alex Fratkin	
Jeff Hanson	
Jon Jensen	
John Liang	Public Utility District No. 1 of Snohomish County
Todd Lichtas	Tucson Electric Power
Peter Mackin.	GridBright, Inc.
Bradley Postovoit	Southern California Edison Company
Dipendra Rai	British Columbia Hydro and Power Authority
Karen Reedy	
Erik Schellenberg	
Spencer Tacke	
Chifong Thomas	
Di Xiao	Southern California Edison Company
Members not in Attendance	
Nayeem Mohammad Abdullah	Metropolitan Water District of Southern California
Waseem Arif	FortisBC, Inc.
Eric Bahr	NorthWestern Energy
Aseem Bhatia	California Department of Water Resources
Ben Brownlee	
Robert Burner	
Ron Calvert	
Shawn Carlson	Basin Electric Power Cooperative



David Cathcart	Bonneville Power Administration—Transmission
Desmond Chan	Seattle City Light
Tom Christensen.	Basin Electric Power Cooperative
Patrick Corrigan	Public Service Company of Colorado (Xcel Energy)
Tuan Dang	Puget Sound Energy, Inc.
Thomas Duane	Public Service Company of New Mexico
Jonathon Flores	Los Angeles Department of Water and Power
Thomas Flynn	
Jennifer Galaway	
William Gibson	Hetch Hetchy Water and Power
Chris Gilden	Tri-State Generation and Transmission—Reliability
Laurie Hammack	Seattle City Light
Scott Harding	
Kody Heppner	Turlock Irrigation District
Fred Heutte	
Bill Hosie	PSI Power System Innovation Corp.
Robert Jackson	
Lesley Kayser-Sprouse	Hetch Hetchy Water and Power
Christopher Kulink	
David Le	
May Le	
Chelsea Loomis	
Richard Maguire	
Daniel McGuire	Salt River Project
Pete Mensonides	Turlock Irrigation District
Patrick MontPlaisir	Western Area Power Administration
Valeriy Jr. Oleshko	Western Area Power Administration
Mark Pigman	Tacoma Power



Eepsita Priye	Puget Sound Energy, Inc.
Ebrahim Rahimi	California Independent System Operator
Daniel Ramirez	Energy Strategies
Faranak Sarbaz	Los Angeles Department of Water and Power
Masoud Shafa	California Department of Water Resources
Rikin Shah	PacifiCorp
Amy Sopinka	British Columbia Ministry of Energy and Mines
April Spacek	Avista Corporation
Jan Strack	
Eric Tang	Salt River Project
Angela Tanghetti	
Khanh Thai	Tacoma Power
David Tovar	El Paso Electric Company
Patrick Truong	
Louis Vigil	El Paso Electric Company
Yu (David) Wang	
Curtis Westhoff	Idaho Power Company
Xiaofei (Sophie) Xu	
Dennis Yegorov	
Janice Zewe	
Wenjuan (Wendy) Zhang	Pacific Gas and Electric Company
Others in Attendance	
Chris Corral.	El Paso Electric Company
Alex Cortez.	
Mar Dahl	REU Power
Enoch Davies.	
Jorge Gutierrez	Imperial Irrigation District
Gerald Harris	Quantum Planning Group



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Nick Hatton	WECC
Stan Holland	WECC
Scott Jordan	Southwest Power Pool
Richard Marrs	Quantum Planning Group
Rafael Molano	Bonneville Power Administration
Kirha Quick	WECC
Tyson Niemann	WECC
Amir Sajadi	WECC
Jilya Shoaib	Brtiish Columbia
Hari Singh	
David Wang	San Diego Gas and Electric
Byrom Woertz	

