

**1. Welcome, Call to Order**

Matt Zapotocky, Studies Subcommittee (StS) Liaison, called the meeting to order at 10:02 a.m. MT on July 16, 2024. A quorum was present to conduct business. A list of attendees is attached as Exhibit A.

**2. Review WECC Antitrust Policy**

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

**3. Approve Agenda**

Thomas Carr introduced the proposed meeting agenda.

**On a motion by Mr. Carr, the StS approved the agenda.**

**4. Review and Approve Previous Meeting Minutes**

Mr. Carr introduced the minutes from the meeting on March 20, 2024.

**On a motion by Karen Reedy, the StS approved the minutes from March 20, 2024.**

**5. Review Previous Action Items**

Natalie Carter, Administrative Coordinator, reviewed action items carried over from the StS meeting on March 20, 2024.

**6. Review and Approve Annual Progress Report**

Doug Tucker, Senior Reliability Assessment Engineer, reviewed the 2024 Annual Progress Report. There was an Opposition Letter submitted, and waivers have been approved.

**On a motion by Chifong Thomas, the StS approved the 2024 Annual Progress Report.**

**7. 2023 Study Program Update and Results**

Katie Rogers, Reliability Assessment Manager, presented the Y20 Compound Load Impacts Study. Some observations were that electrification could stress peak demand hours based on the Y20FC assumptions, and demand response could help custom shaping based on subregion.

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Jon Jensen, Reliability Modeling Engineer, presented on the Y20 Cold Weather Event Study. The goal for this study was to identify vulnerabilities during an extreme cold weather event. To do this, there was a need to develop a Year 20 dataset, define an extreme weather scenario, and translate extreme weather into a power system model.

Amanda Sargent, Senior Resource Adequacy Analyst, presented on the Y20 Extreme Heat Event Study (pre-recorded). The purpose for this study is to record changing climate risks and trends. There were other extreme heat studies suggested that could be explored in the future.

### 8. Geomagnetic Disturbance Studies

Patrick Truong with Sacramento Municipal Utilities District gave a presentation on TPL-007-4 R4 and R8 going forward. The options that were presented were each member going forward on their own, or members team up and perform studies.

### 9. Public Comment

No comments were made.

### 10. Review New Action Items

- Discussion and determination of forum for GMD study collaboration
  - Assigned To: StS
  - Due Date: September 30, 2024

### 11. Upcoming Meetings

To be determined..... Virtual

### 12. Adjourn

Mr. Carr adjourned the meeting without objection at 12:29 p.m.



## Exhibit A: Attendance List

### Members in Attendance

Brenna Andrews .....NorthWestern Energy  
Waseem Arif..... FortisBC, Inc.  
Vinson Banh ..... Alberta Department of Energy  
Thomas Carr..... Western Interstate Energy Board  
Ken Che..... Public Utility District No. 1 of Snohomish County  
Chris Gilden ..... Tri-State Generation and Transmission—Reliability  
Talal Hanna ..... San Diego Gas and Electric  
Jeff Hanson ..... Colorado Springs Utilities  
Daniel Johnson Jr. .... Black Hills Corporation  
Todd Lichtas..... Tucson Electric Power  
Peter Mackin..... GridBright, Inc.  
Patrick MontPlaisir.....Western Area Power Administration  
Eepsita Priye..... Puget Sound Energy, Inc.  
Dipendra Rai ..... British Columbia Hydro and Power Authority  
Karen Reedy .....Public Service Company of New Mexico  
Katie Rogers .....WECC  
Trevor Schultz .....Idaho Power Company  
Chifong Thomas ..... Thomas Grid Advisor  
Patrick Truong .....Sacramento Municipal Utility District  
Xiaofei (Sophie) Xu..... Pacific Gas and Electric Company  
Cole Youngers.....Avista Corporation  
Wenjuan (Wendy) Zhang..... Pacific Gas and Electric Company  
Quinten Ziegler.....Transmission Agency of Northern California



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### Members not in Attendance

Nayeem Mohammad Abdullah..... Metropolitan Water District of Southern California  
Robby Anderst ..... Puget Sound Energy, Inc.  
Ian Beil..... Portland General Electric Company  
Scott Beyer ..... Western Power Pool  
Aseem Bhatia..... California Department of Water Resources  
Ron Calvert..... Utility System Efficiencies, Inc.  
Shawn Carlson ..... Basin Electric Power Cooperative  
David Cathcart..... Bonneville Power Administration—Transmission  
Desmond Chan ..... Seattle City Light  
Patrick Corrigan..... Public Service Company of Colorado (Xcel Energy)  
Tuan Dang ..... Public Utility District No. 1 of Snohomish County  
Thomas Duane ..... Public Service Company of New Mexico  
Jonathon Flores ..... Los Angeles Department of Water and Power  
Thomas Flynn..... California Energy Commission  
Alex Fratkin..... NV Energy  
Fred Heutte..... NW Energy Coalition  
Bryant Hicks..... Salt River Project  
Bill Hosie..... PSI Power System Innovation Corp.  
Robert Jackson..... Burns & McDonnell (1898 and Co.)  
Lesley Kayser-Sprouse..... Hetch Hetchy Water and Power  
Michael Korhonen ..... Western Area Power Administration  
Christopher Kulink..... Portland General Electric Company  
David Le..... California Independent System Operator  
May Le..... Public Utility District No. 2 of Grant County  
Chelsea Loomis ..... Western Power Pool  
Richard Maguire ..... Public Utility District No. 2 of Grant County  
Jake Maxfield..... PacifiCorp



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Daniel McGuire.....Salt River Project  
Christopher McLean..... California Energy Commission  
Mitchell Miller.....NorthWestern Energy  
Valeriy Jr. Oleshko.....Western Area Power Administration  
Michael Pokallus.....Western Area Power Administration  
Ebrahim Rahimi.....California Independent System Operator  
Daniel Ramirez.....Energy Strategies  
Benjamin Rodriguez..... El Paso Electric Company  
Faranak Sarbaz..... Los Angeles Department of Water and Power  
Amanda Sargent .....WECC  
Erik Schellenberg .....Idaho Power Company  
Tim Schiermeyer .....Transmission Agency of Northern California  
Masoud Shafa.....California Department of Water Resources  
Hari Singh.....Public Service Company of Colorado (Xcel Energy)  
Alejandro Solis ..... El Paso Electric Company  
Jan Strack ..... San Diego Gas and Electric  
Spencer Tacke.....Auriga Corporation  
Angela Tanghetti ..... California Energy Commission  
Khanh Thai ..... Tacoma Power  
Jameson Thornton ..... Burns & McDonnell (1898 and Co.)  
David Tovar..... El Paso Electric Company  
Dhayanes Velusamy ..... Burns & McDonnell (1898 and Co.)  
Jeremy Webber.....FortisBC, Inc.  
Di Xiao.....Southern California Edison Company  
Dennis Yegorov.....PacifiCorp  
Hayk Zargaryan.....Southern California Edison Company  
Janice Zewe.....Sacramento Municipal Utility District  
Kevin Zhang.....British Columbia Hydro and Power Authority



**Others in Attendance [Only for technical committees]**

Robin Arnold..... Western Interstate Energy Board  
Hassan Baklou..... San Diego Gas and Electric  
Tyler Butikofer ..... Energy Strategies  
Natalie Carter ..... WECC  
Jyotsna Ch..... NV Energy  
Lakmal Chandrasekara..... Turlock Irrigation District  
Christopher Corral ..... El Paso Electric Company (EPE)  
Donna Enriquez ..... El Paso Electric Company  
Rene Fabro ..... Tri-State Generation and Transmission—Reliability  
Jackie Gonzales ..... Salt River Project  
Jim Hadley ..... Black Hills Corporation  
Mensur Haskovic..... Western Area Power Administration  
Jon Jensen..... WECC  
Colby Johnson ..... Energy Strategies  
Hyun Joo Lee..... PacifiCorp  
Cole Mares ..... Salt River Project  
Nima Miri ..... Seattle City Light  
Anuj Patil ..... WECC  
Cuong Phan..... Eurowind Energy  
Austin Pollard ..... Colorado Springs Utilities  
Anthony Rendon ..... Salt River Project  
Laura Rennick ..... Western Interstate Energy Board  
Kellen Romero..... WECC  
Stina Trast ..... Eurowind Energy  
Doug Tucker..... WECC  
Matt Twardy..... Public Service Company of Colorado (Xcel Energy)



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Matt Zapotochy.....WECC

Jimmy Zhang.....Alberta Electric System Operator

