

**EUCG 2024 Fall Workshop  
September 15-18, 2024  
Hilton Scottsdale Resort and Villas  
Scottsdale, Arizona**

**Battery Energy Storage Systems Working Group (BESS)**

**Wednesday, September 18, 2024**

Time Blocks	Session Title
8:00 – 9:00 MST	<b><i>Breakfast</i></b>
<p style="text-align: center;"><b>Time Block 1</b></p> <p>9:00 – 9:45 MST</p>	<ol style="list-style-type: none"> <li><b>1. Welcome</b></li> <li><b>2. Introductions</b></li> <li><b>3. Safety Discussion</b></li> <li><b>4. BESS committee future discussion</b></li> </ol>
<p style="text-align: center;"><b>Time Block 2</b></p> <p>9:45 – 10:45 MST</p>	<p><b>Case Study on Casing Leaks/Water Moisture, Door Gaskets HVAC Economizer Damper – Andrew Goebel -Centerpoint /Eid Ahdal – TECO, Facilitators</b></p> <p style="text-align: center;"><i>Discussion on dangers and or impacts of water intrusion into BESS enclosures. Maintenance and or inspection recommendations, potential remediation suggestions.</i></p>
10:45 – 11:30 MST	<b><i>Break</i></b>
<p style="text-align: center;"><b>Time Block 3</b></p> <p>11:30 – 12:15 MST</p>	<p><b>Augmentation vs Overbuild – Presenter, Gray Tompson - Duke - Energy</b></p> <p><i>As many of us are developing our strategy for the future BESS installations we are faced with determining what our installation strategy will be. This discssion will be focused on deciding if overbuild or augmentation strategy will be used. Some questions to consider:</i></p> <ol style="list-style-type: none"> <li><i>a. What approach is your company taking?</i></li> <li><i>b. Benefits or detractors related to each?</i></li> <li><i>c. Cost considerations?</i></li> <li><i>d. Design considerations?</i></li> <li><i>e. Equipment compatability or availability?</i></li> <li><i>f. Other items of concern?</i></li> </ol>

<p><b>Time Block 4</b> 12:15 – 1:00 MST</p>	<p><b>Battery User Group within Duke-Energy – Presenter: Scott Trombley - Duke Energy</b></p> <p><i>Duke Energy has multiple groups within the company responsible for BESS Operation and Maintenance. To ensure that we are sharing best practices across business units we developed an internal users group This presentation will share how this user group is leveraged</i></p>
<p>1:00 – 2:00 MST</p>	<p><b>Working Lunch</b></p>
<p><b>Time Block 5</b> 2:00 – 3:00 MST</p>	<p><b>Sleep Mode – Mark Wagner Duke-Energy Presenter</b></p> <p><i>Duke Energy recently experienced an unexpected sleep mode condition in one of our BESS installations. The focus of this discussion will be on; what is sleep mode, how does it impact production, what are the thresholds, lessons learned, how is your utility solving this issue?</i></p>
<p><b>Time Block 6</b> 3:00 – 4:00 MST</p>	<p><b>Top Performing Battery Asset Characteristics within your Fleet – Roundtable - Billy Sabin - TVA Facilitator</b></p> <ul style="list-style-type: none"> <li>a. <i>How do you know its your top performing asset what do you measure, what is its characteristics/profile/purpose, manufacture, generation output, etc.</i></li> <li>b. <i>Battery Focus – Inverters will not be included in this discussion.</i></li> </ul>
<p><b>Time Block 7</b> 4:00 – 5:00 MST</p>	<ul style="list-style-type: none"> <li><b>1. Off-Gassing Monitoring Lessons Learned – Andrew Goebel -Centerpoint Energy, Douglas Detterman – CMS Energy</b></li> <li><b>2. Plume study – Are you conducting these for your sites?</b> <ul style="list-style-type: none"> <li>a. <i>Gas Chemistry information: Doug Detterman can present this topic, you will have to reach out to him to see if he is interested.</i></li> </ul> </li> </ul>
<p><b>Time Block 8 (if needed)</b> 5:00 – 6:00 MST</p>	<p><b>Thermal Runaway RCA High Level Sharing – APS Presenter Jeremy Garcia</b></p> <ul style="list-style-type: none"> <li>a. <i>Share information that is available for public consumption</i></li> </ul>