**EUCG 2022 Spring Hybrid Workshop**

**April 25-27, 2022**

**The Westin Riverwalk, San Antonio**

**San Antonio, Texas**

*Note: Highlighted times are in person times, al other times are provided for Virtual attendees.*

***Monday, April 25, 2022***

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| **Time Blocks** | **Session Title** |
| 8:00 – 9:00 CT | ***Breakfast*** |
| **Time Block 1**  07:00 -08:30 PT  08:00 - 09:30 MT  9:00 – 10:30 CT  10:00 - 11:30 ET | **EUCG General Session Panel Discussion – Transportation Electrification – Panel Discussion**  **Speakers from TVA, Duke Energy, & PG&E.** |
| 10:30 – 11:00 CT | ***Break*** |
| **Time Block 2**  09:00-10:00 PT  10:00-11:00 MT  11:00-12:00 CT  13:00-14:00 ET | **Introductions/Opening comments**   * **Name, Company name, position or role, one item that you wish to take away from this workshop.** * **Safety Case study – Roundtable All**   *Safety case study - each utility will prepare a 1 - 2 slide 5-10 minute presentation on a safety issue that you would like to share.*  *.* |
| **Time Block 3**  10:00-11:00 PT  11:00-12:00 MT  12:00 -13:00 CT  14:00-15:00 ET | **Vegetation Management - Revisited**  **Autonomous mowing or other advances in Vegetation Management?** *Third party solution? Doug suggested - Renew Robotics. American Solar Grazing Associations- Topaz solar farm in Calii , may be another option. Doug will reach out for participation availability. Spyder Mowers USA - Andy - will reach out to see if they are interested* |
| 13:00 – 14:00 CT | ***Lunch*** |
| **Time Block 4**  12:00-13:00 PT  13:00-14:00 MT  14:00 – 15:00 CT  15:00-16:00 ET | **Drone Usage vs IV curve tracing**   * APS to present on their usage of drones to perform PV module analysis - Jeremy Garcia? * Duke Energy to present on Drone process for PV module analysis - Andrew Douglas   *A look into how companies are using drones to perform equipment analysis of PV modules to identify faulty modules or strings. Additional Drone usage applications will be discussed time permitting.* |
| 15:00 – 15:30 CT | ***Break*** |
| **Time Block 5**  13:30-14:30 PT  14:30-15:30 MT  15:30 – 16:30 CT  16:30 - 17:30 ET | **Automation of Data reporting - Richard Tilyard - Duke Energy**  *An overview of how Duke Energy is moving to automated performance reporting using PI Vision.* |
| **Time Block 6**  14:30-15:30 PT  15:30-16:30 MT  16:30 – 17:30 CT  17:30-18:30 ET | **Roundtable discussion**   * *Equipment issues* * *Best Practices* * *Spare parts strategies* * *Remote accessability - for ST response to site level issues.* * *Other items related to Solar/Storage that the team may wish to discuss* |
| 18:30 -21:00 CT | ***Monday Evening Networking Event*** |

***Tuesday, April 26, 2022***

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| **Time Blocks** | **Session Title** |
| 8:00 – 9:00 CT | **Breakfast** |
| **Time Block 7**    07:00-08:00 PT  08:00-09:00 MT  9:00 – 10:00 CT  10:00-11:00 ET | * **Safety Case study – Roundtable All** * *Continuation of safety presentations from Day 1 opening session.* |
| **Time Block 8**  08:00-09:00 PT  09:00-10:00 MT  10:00 -11:00 CT  11:00-12:00 ET | * **Solar Data collection discussion - Roundtable -All (Christine Messer- TBD)** * *Discussion on what the solar committee would like to compare for data analysis.* * *Are we comparing apples to apples?* * *How would we like to receive the data comparison?* * *Suggestions for data collection catagories.*   *.* |
| 11:00 – 11:30 CT | ***Break*** |
| **Time Block 9**  09:30-11:00 PT  10:30-12:00 MT  11:30 – 13:00 CT  12:30-14:00 ET | **Safe work Practices**  *Lone worker, LOTO - Roundtable discussion from each utlity how are we managing work on our sites, energy isolation, Working at night benefits/risks? What is eveyone using to determine lone work vs multiple workers. PPE - ARC Flash requirements.*  *DTE study on ARC flash calculation - Updates on EPRI 1500v study if available.* |
| 13:00 – 14:00 CT | ***Lunch*** |
| **Time Block 10**  12:00-13:30 PT  13:00-14:30 MT  14:00 – 15:30 CT  15:00 -16:30 ET | * **Roundtable - WMS process for solar teams.** * *Solar site maintenance requirements - Best practices?* * *What are we doing for PM’s at the sites?*    + *Inverters, switchyard, Arrays, trackers, combiners, etc.* |
| 15:30 – 16:00 CT | ***Break*** |
| **Time Block 11**  14:00 - 15:30 PT  15:00-16:30 MT  16:00 - 17:30 CT  17:00 -18:30 ET | **Inverter re-powering, process and lessons learned**.  Anthony Morabito to present, currently doing a 500kw repowering effort. |

***Wednesday, April 27, 2022***

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| **Time Blocks** | **Session Title** |
| 8:00 – 9:00 CT | ***Breakfast*** |
| **Time Block 12**  07:00 - 08:00 PT  08:00-09:00 MT  9:00 – 10:00 CT  10:00-11:00 ET | **PV Module replacement - David Powell**   * *Managing different wattages and dimensions* * *Redoing the backside of the modules* * *Discussion - Repowering discussion, recycling PV Modules* |
| **Time Block 13**  08:00 - 09:00 PT  09:00 -10:00 MT  10:00 – 11:00 CT  11:00 -12:00 ET | * **Module washing (Matt-APS) –** * *When is washing justified?* * *Monitoring Technologies?* * *Soiling analysis cost and losses* |
| 11:00 – 11:30 CT | ***Break*** |
| **Time Block 14**  09:30 - 11:00 PT  10:30 - 12:00 MT  11:30 -1:00 CT  12:30 - 14:00 MT | * **Fall Session Planning - Roundtable** * **Suggestions on Fall session topics** |
| 1:00 CT | ***Workshop Adjourns*** |
| **Time Block 15**  1:30 – 4:00 CT | **EUCG Board Meeting** |