**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 PT08:00 - 09:30 MT9:00 – 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 PT10:00-11:00 MT11:00-12:00 CT13:00-14:00 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 PT11:00-12:00 MT12:00 -13:00 CT14:00-15:00 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 CT15:00-16:00 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 PT14:30-15:30 MT15:30 – 16:30 CT16:30 - 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 PT15:30-16:30 MT16:30 – 17:30 CT17:30-18:30 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*
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| 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 PT08:00-09:00 MT9:00 – 10:00 CT10:00-11:00 ET | * **Safety Case study – Roundtable All**
* *Continuation of safety presentations from Day 1 opening session.*
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| **Time Block 8**08:00-09:00 PT09:00-10:00 MT10:00 -11:00 CT11:00-12:00 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.*

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| 11:00 – 11:30 CT | ***Break***  |
| **Time Block 9**09:30-11:00 PT10:30-12:00 MT11:30 – 13:00 CT12:30-14:00 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 PT13:00-14:30 MT14:00 – 15:30 CT15:00 -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.*
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| 15:30 – 16:00 CT | ***Break*** |
| **Time Block 11**14:00 - 15:30 PT15:00-16:30 MT16:00 - 17:30 CT17:00 -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 PT08:00-09:00 MT9:00 – 10:00 CT10:00-11:00 ET | **PV Module replacement - David Powell*** *Managing different wattages and dimensions*
* *Redoing the backside of the modules*
* *Discussion - Repowering discussion, recycling PV Modules*
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| **Time Block 13**08:00 - 09:00 PT09:00 -10:00 MT10:00 – 11:00 CT11:00 -12:00 ET | * **Module washing (Matt-APS) –**
* *When is washing justified?*
* *Monitoring Technologies?*
* *Soiling analysis cost and losses*
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| 11:00 – 11:30 CT | ***Break***  |
| **Time Block 14**09:30 - 11:00 PT10:30 - 12:00 MT11:30 -1:00 CT12:30 - 14:00 MT | * **Fall Session Planning - Roundtable**
* **Suggestions on Fall session topics**
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| 1:00 CT | ***Workshop Adjourns*** |
| **Time Block 15**1:30 – 4:00 CT | **EUCG Board Meeting** |