2025 UNIFI General Meeting

July 22-24, 2025

Meeting will be held at the Fluno Center: 601 University Avenue, Madison, WI 53715

Tuesday, July 22	
7:30 – 8:00 am	**Registration**
8:00 – 8:15 am	Welcome and UNIFI Overview - Ben Kroposki (NREL)
8:15 – 10:15 am	Current progress in **Modeling and Simulation** - Overview, Generic Model Update – Wei Du (PNNL) - WECC 240 Bus Study – Jin Tan (NREL) - Kauai 1Hz Os and Root Cause Analysis – Shuan Dong (NREL) - Modeling fast dynamics for system stability studies with GFL / GFM – Duncan Callaway (UC-Berkeley)
10:15 –10:30 am	**Student networking**
10:30 am – 11:45 pm	Current progress in **Controls** - Overview of Controls work– Dominic Gross (UW-Madison) - Individual Team progress - TBC - Individual Team progress - TBC - Individual Team Progress - TBC
11:45 am – 12:00 pm	Group Photo
12:00 – 1:00 pm	**Working Lunch** (provided) Presentation TBD
1:00 – 2:45 pm	Current progress in **Integration & Validation (I&V)** - Overview – Brian Johnson (UT-Austin) - Typhoon C-HIL Validation - NREL - Gab-Su Seo (NREL) - EPC – TBC -
2:45 – 3:15pm	Crosscut 5 Update **Advanced GFM Testbed** – Ulrich Muenz (Siemens), Jin Tan (NREL)
3:15 – 3:30 pm	**Break**
3:30 – 5:00 pm	**GFM specifications** - Version 3 and Transitioning to an IEEE standard Andy Hoke (NREL) and Deepak Ramasubramanian (EPRI)
5:00 – 7:00 pm	**Poster Session** Student project participant posters and Area Lead/Crosscut Lead posters

Wednesday, July 23	
8:00 – 8:30 am	**Registration and Networking**
8:30 – 10:00 am	**Special Topic: IBR Protection** Member presentations (10-minute presentation/ 5-minute Q&A) - TBC, Priya Raghuraman (Siemens) - SEL - TBC, Jing Wang (NREL) - TBC, Deepak Ramasubramanian (EPRI)
10:00 – 10:30 am	**Student networking**
10:30 – 12:00 pm	**Resource dynamics** discussion, led by Arvind Tiwari Kumar (GE Vernova) – How DC resources impact GFM operations and controls - TBC, Dustin Howard (GE Vernova) - TBC, Siemens Energy - TBC, Hitachi
12:00 – 1:00 pm	**Working Lunch** (provided) Presentation TBD
GFM Research	
1:00 – 2:00 pm	**GFM plant architecture** discussion, led by Dominic Gross (UW-Madison) – How controls need to be configured between individual IBRs and plant controls
2:00 – 2:30	1MW update, Jing Wang (NREL) – Updated information on the results from the multi-vendor GFM integration and interaction experiment
2:30 – 3:00 pm	**Break**
3:00 – 4:30 pm	**Special Topic: R&D Needs for GFM** - What are the types of problems being seen in large grids with high levels of IBR? - Does GFM help, hurt, or is it indifferent? - What specifications could GFM have that would help these issues?

Thursday, July 24	
8:00 – 8:30 am	**Registration and Networking**
8:30 - 10:00 am	System integration studies with GFM: Discussion on what is currently happening in large-scale integration studies: challenges and path forward on studies and requirements - ERCOT, TBC - CAISO, TBC - MISO, TBC - EPRI - Opal-RT
10:00 am – 12:00 pm	UW-Madison Lab Tours