

WORKING GROUPS

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In-Person Meetings at FSEC have Occurred

- 1. Energy-Efficient Buildings Lead: Rob Vieira
- 2. Grid Modernization/Energy System Integration Lead: Manjunath Matam
- 3. Solar Energy/Storage Systems Lead: Mengji Li
- 4. Electric Transportation Lead: Rich Raustad
- 5. Hydrogen/Biomass/CO₂ Lead: *Jim Fenton*
- 6. Education, Service, Workforce Training, Policy Lead: Colleen Kettles

Invite FSEC Advisory Board Members or Designees to Attend Quarterly Virtual Meetings.



Working Group Program Area	Program Focus	Working Groups
Energy Efficient Buildings	Building science, indoor air quality, smart energy efficient devices and systems, load management, weatherization, affordable housing applications, and deep retrofits.	
Grid Modernization/ Energy Systems Integration	Energy systems integration, including vehicle to building technology, grid-interactive efficient buildings, smart buildings, demand management, smart mobility, and resiliency. Connected Communities and Virtual Power Plants.	
Solar Energy/Storage Systems	· · ·	nce, durability, testing and certification; PV cell/module d energy resources. Electrochemical lithium & flow ed water, water heaters).
Electric Transportation	Sustainable transportation, elec	ctric vehicles, autonomous systems, and infrastructure
Hydrogen/ Biomass/ CO ₂ Valorization/ Catalysis	use as a feedstock, gas turbine	zers), Consumption (fuel cells, turbines (H2 and H2/CH4), ramping with more solar on the grid, H2 catalysis. Using iomass and CO2 to fuels (renewable natural gas, chemical feedstocks.
Education, Service, Workforce Training, Policy	and marketing, energy minors f	and credential development, public education, outreach for BS/BA, MS, PhD, PV on Schools, energy policy analysis, ent and administration, apprenticeship

FSEC Working Groups

Outcome of Initial Working Group Meetings

- Staff: Increased opportunities require increased specialized staff
- **Collaboration:** Increase partnerships
- **Topics:** Big data, durability
- Roles: Consulting and Implementation in addition to Research and Training
- Maintenance: Maintain test facilities

