



Transactive Energy Challenge Kickoff Workshop

September 10-11, 2015

National Institute of Standards and Technology Gaithersburg, MD Campus

PRELIMINARY AGENDA

Thursday, September 10, 2015	
8:00 am	Registration —NIST Administration Building 101
8:30 am –12:45 pm	Morning Plenary (Webcast) — <i>Portrait Room</i>
8:30 am	NIST Welcome <i>Howard Harary, NIST, Director of the Engineering Laboratory</i>
8:35 am	TE Challenge Vision <i>Chris Greer, NIST, Director of the Smart Grid and Cyber-Physical Systems Program Office and National Coordinator for Smart Grid Interoperability</i>
8:45 am	What is TE, Why it Matters and Where it's Headed <i>Ron Melton, PNNL, Director, Smart Grid Demonstration Project</i>
9:05 am	How a Challenge Works <i>Sokwoo Rhee, NIST, Associate Director of Cyber-Physical Systems Program</i>
9:15 am	Challenge Context: Where We Are, What We Have, Where We're Going <i>David Holmberg, NIST</i> <ul style="list-style-type: none"> • March Transactive Energy (TE) Challenge Preparatory Workshop Results: Grid Challenges, gaps in tools, critical outputs for the Challenge, and reporting goals • TE Challenge Collaboration Site for teams—documents, resources, reporting, evaluation, outreach and team building • Baseline scenarios and the TE Use Case Framework • Logistics, details of the Challenge and the Kickoff
9:45 am	Break
10:00 am	Examples and Team Projects <ul style="list-style-type: none"> • Powermatcher and TE in EU—<i>Alexander Krstulovic, Alliander</i> • Reference Grid Model for TE Simulation—<i>Steve Ray, CMU</i> • C2 Platform for TE Co-Simulation—<i>Himanshu Neema, Vanderbilt</i> • TEMIX for multi-Microgrid communications—<i>Jennifer Worrall, Cleanspark</i>
10:40 am	<p>Facilitated Sessions: Five-Minute introductions and Potential Participation Ideas: Possible Presenters</p> <ul style="list-style-type: none"> • CMU—<i>Marja Ilic</i> • PNNL—<i>Ron Melton</i> • Vanderbilt—<i>Himanshu Neema</i> • TEMIX, Inc—<i>Ed Cazalet</i> • Energy Mashup Labs—<i>William Cox</i> • Businnovation—<i>Paul Heitmann</i> • Smart Grid Architecture for Interoperability and Integration and Regulatory Reform for TE—<i>Larisa Dobriansky, General Microgrids</i> • Transactive Controls Approach—<i>Tom Nudell, MIT</i> • MaCT—<i>William Miller</i> • ABB—<i>Gary Rackliff</i> • OpenADR Alliance—<i>Rolf Bienert</i> • Tata Consulting • NEPLAN—<i>Giatgen Cott</i> • LION—<i>Lucian Ion</i> • ICF International—<i>Prima Brooks</i> • Kisensum—<i>Paul Lipkin</i> • Bluewave Resources—<i>Jeffrey Price</i> • Others
12:45 pm	Lunch — <i>NIST Cafeteria</i>
1:45–5:00 pm	Afternoon Session <i>Portrait Room and Heritage Room (also Dining Rooms A&B if needed)</i>
1:45 pm	Participant Presentations Continue <ul style="list-style-type: none"> • Additional 5 minute participant introductions • Instructions for Team Formation Session



2:15 pm	Team Forming—Meeting with Potential Partners to Shape Team Plans <ul style="list-style-type: none"> Teams work in small topic-focused groups to record high-level details of plans: Team leader/potential members, partners needed, main idea, initial goals/milestones/responsibilities/products.
4:15 pm	Plenary: Report Out on Proposed Team Summary Plans <ul style="list-style-type: none"> Objective, approach and possible partners for each team
4:45 pm	Closing and Instructions for Next Day
5:00–6:00 pm	Tour of the NIST Net-Zero Energy Residential Test Facility (Net-Zero House) (Optional)
6:30 pm	Dinner On your own—opportunity for teams to have dinner together. Restaurant list will be provided.
Friday, September 11, 2015	
8:00 am –12:00 pm	Morning Session <i>Heritage Room (also Dining Room C for breakouts and team meeting overflow)</i>
8:00 am	Challenge Development and Next Steps <ul style="list-style-type: none"> Welcome Review of Teams and Topics Review Output from March Workshop Facilitated Session: Challenge Development and Promotion <ul style="list-style-type: none"> <i>We have some teams formed now. What important work is not being done that we should target for team formation and action?</i> <i>What are the foundational elements that are needed to strengthen the teams and support the project work goals (e.g., data, scenarios, co-simulation standards, etc.)?</i> <i>How do we promote and build teams?</i> <i>What is needed to advance on each goal of the Challenge? What are the collaborative paths forward? What are the steps to get there? What are the things that must happen in other spheres that we might influence?</i> <i>How can we best use the Collaboration Site?</i> <i>What is the best approach for a December follow on meeting?</i> Review of what have we accomplished and next steps
10:00–11:30	Additional Team Planning and TE Challenge Collaboration
11:30–12:30	Tour of the NIST Smart Grid Testbed Laboratory (optional)