



Devices | Data | Decisions

AGENDA

Technical Meeting on the Software Framework for Transactive Energy: VOLTRON™

August 4-5, 2016

MEETING LOCATION

Pacific Tower
1200 12th Ave. South
Seattle, WA 98144
Phone: (206) 954-6418

MEETING FACILITATION

Sean McDonald
PlanIt Meetings
sean@planitmeetings.com
Phone: (410) 507-1660

ACCOMMODATIONS

Crowne Plaza Hotel - Seattle
1113 - 6th Avenue
Seattle, WA 98101
Phone: (206) 464-1980

Underground parking at the Pacific Tower \$7 up to 10 hours; \$10 for 24 hours. Taxi or Uber/ Lyft is recommended if you do not have your own transportation. The Smart Building Center is accessible by the City Bus 36 from downtown Seattle along 3rd Avenue southbound to Pacific Tower.




Pacific Northwest
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U.S. DEPARTMENT OF
ENERGY

AGENDA August 4-5, 2016 Pacific Tower 1200 12th Ave. South Seattle, WA 98144		
Objectives: Build the User Community, Learn From Each Other, and Ensure VOLTRON™ Meets the Needs for a Transactive Market		
DAY 1 – August 4, 2016 – Panoramic Room (8th Floor), Pacific Tower		
EERE and Grid Integration: Role of Transaction Based Control		
08:00	Welcome DOE/BTO Purpose and Context Motivation for the Transaction-Based Platform	Dennis Stiles, PNNL Joseph Hagerman, DOE/BTO George Hernandez, PNNL
VOLTRON™ Business Cases		
09:00	VOLTRON™ Market Assessment	Jim Young, Navigant Consulting, Inc.
09:30	VOLTRON™-Based Services for Small and Medium Commercial Buildings	Justin Sipe, Transformative Wave
10:15	VOLTRON™-based Remote Monitoring and Diagnostics Services for Large Commercial Buildings	Terry Herr, Intellimation
11:00	VOLTRON™-based Cloud Analytics Services	James Benson, CORASCloud
11:30	Energy Users of the Future - How Consumer Needs Will Impact the Energy Markets	Chad Curry, National Association of Realtors
Future of VOLTRON™ Working Lunch		
12:00	VOLTRON™ 1.0 – 4.0 and Beyond Where We've Been, Where We're Going	Bora Akyol/Jereme Haack, PNNL
12:30	Key Requests for VOLTRON™ Enhancements	Craig Allwardt, PNNL
12:45	Suggestions/Ideas for Applications/Improvements to the VOLTRON™ Platform	Facilitator
The National Lab Transactive Portfolio (Panel)		
01:30	VOLTRON™ Use Cases and GMLC Projects	George Hernandez, PNNL

	PNNL VOLTRON™ Use Cases	Srinivas Katipamula, PNNL
	VOLTRON™ as a DER Integration Platform	Sila Kiliccote, SLAC National Accelerator Laboratory
	Utilizing VOLTRON™ Platform for Enabling Energy Efficiency and Grid-Responsiveness of Building Loads	Teja Kuruganti, Oak Ridge National Laboratory
	Transaction-based Control of Workstations using VOLTRON™	Christian Kohler, Lawrence Berkeley National Laboratory Vishal Garg, IIIT Hyderabad
Wrap-up of Day One		
03:00	Discussion and Wrap-up	Facilitator
03:30	Adjourn	
DAY 2 – August 5, 2016 – Training and Event Center (1st Floor), Pacific Tower		
08:00	Summary of First Day	Facilitator
EERE and Grid Integration: Role of Transaction Based Control		
08:10	VOLTRON™ Technical Overview	Jereme Haack, PNNL
08:30	VOLTRON™ 4.0 Features	Craig Allwardt, PNNL
09:10	VOLTRON™ Security	Craig Allwardt, PNNL
09:40	Discussion	Facilitator
10:00	Agent Development	Jereme Haack, PNNL
10:30	Historians and Drivers	Chandrika Sivaramakrishnan, PNNL
11:00	VOLTRON™ Deployment and Scalability	Jereme Haack, PNNL
Hands On VOLTRON™ Working Lunch		
11:30	Live Deployment Walkthrough	VOLTRON™ Team, PNNL
VOLTRON™ Integration with Other Platforms		
01:00	MATLAB, GridLAB-D, FNCS, Energy+	Poorva Sharma, PNNL Chad Corbin, PNNL
02:00	Integrating with NodeRed, DDS, etc.	Michael Roup, PNNL
Open Topics		
02:30	Live Office Hours	VOLTRON™ Team
03:30	Adjourn	