2025 Vehicle Technologies Office Annual Merit Review Electrification R&D (ELT) Oral Presentation Detailed Schedule

	Tuesday, June 3, 2025	,	Wednesday, June 4, 2025		Thursday, June 5, 2025
9:00 AM E I 9:15 AM ^{La}	LT336: Evs@Scale Andrew Meintz, National Renewable Energy aboratory	9:00 AM 9:15 AM		9:00 AM 9:15 AM	ELT316: NEXT DRIVE Overview, Burak Ozpineci, ORNL
9:45 AM AI	LT300: EVs@Scale Codes and Standards Pillar, Ted Bohn, rgonne National Laboratory	9:30 AM 9:45 AM		9:45 AM	ELT317: NEXT DRIVE Task 1: Power Semiconductor Devices, Bob Kaplar, Sandia National Laboratories
10:15 AM Ki	LT299: EVs@Scale High Power Charging Pillar, John isacikoglu, Alastair Thurlbeck, National Renewable Energy aboratory		ELT236: Direct-Current Conversion Equipment Connected to the Medium-Voltage Grid for Extreme Fast Charging Utilizing Modular and Interoperable Architecture, Watson Collins, EPRI Presenter: Krish		ELT318: NEXT DRIVE Task 2: Electric Drive Components - Power Electronics/Power Modules, Nat Doug DeVoto,National Renewable Energy Laboratory
10:45 AM C 11:00 PM E I	LT301: EVs@Scale Cyber-Physical Security Pillar, Richard arlson, Idaho National Laboratory LT302: EVs@Scale EV Modeling Toolkit, Andrew Satchwell, awrence Berkeley National Laboratory	10:30 AM	Gomatom, EPRI ELT312: Ultra-low Cost, All-SiC Modular Power, N Converters for DCFC Connected to MV Distribution System, Srdjan Lukic, North Carolina State University	10:30 AM	
11:30 PM 11:40 PM	Lunch Break	11:00 PM	ELT294: Modular Direct Current (DC) Back Bone Recharging System for Non-Road Vehicles in Austere Environments, Leandro Della Flora,	11:15 PM	ELT320: NEXT DRIVE Task 3: High Voltage, High Power Traction Inverters, Gui-Jia Su, Oak Ridge National Laboratory
D.	LT295: EVs@Scale VGI & SCM Jesse Bennett, National enewable Energy Laboratory	11:30 PM		11:30 PM 11:40 PM	
1:25 PW	Chewabic Energy Laboratory	11:40 PM 1:10 PM	Lunch Break ELT313: Rural Electric Utility Workflow Improvements for Rapid EVSE	1:10 PM	ELT321: NEXT DRIVE Task 4: High Torque Heavy Ra Motors, Vandana Rallabandi, Oak Ridge National Laboratory
, C	harger/Auxiliary DC Converter for Electrified Vehicles pplications Dhrubo Rahman, Ricardo, Inc.	1.25 FIVI	Deployment (REWIRED), Jennah Denney, National Rural Electric Cooperative Association ELT314: Electric Vehicle Smart Program Management Interstate	1:40 PM	ELT322: NEXT DRIVE Task 5: Digital Twin Diagnostics and Prognostics, Praveen Kumar, Oak Ridge National Laboratory
2:25 PM Bi	LT293: Ruggedized Mobile Fast Charger for Off-Road Vehicles, rij Singh, John Deere	1:55 PM 2:10 PM	Renewable Energy Council (IREC), Ed Gilliand, IREC ELT296: Charging Infrastructure Interconnection Simplification	2:10 PM	ELT287: Cummins High Power Density Inverter, Santhosh Krishnamoorthi, Cummins
2:40 PM 2:55 PM		2:25 PM	Resource CIISR, Watson Collins, EPRI Presenter: Jennifer Robinson, EPRI ELT315: EPRIGridFAST Express: Roadmap and Actions	2:40 PM	ELT323: GaN-Enabled Dual Multilevel Inverter Integrated Electric Drive SystemNew, Khorshed Alam, General Motors
3:10 PM 3:15 PM	Time Buffer Break	2:55 DM	to Address Key Challenges to the Utility Interconnection Process and	3:10 PM	Time Buffer
	LT265: A Secure and Resilient Interoperable SCM Control		Supporting Supply Chain, Watson Collins, EPRI	3:15 PM	Break
4.00 DM S	ystem Architecture for Electric Vehicle's-At-Scale, Duncan /oodbury, Liberas	3:10 PM 3:15 PM 3:45 PM	Time Buffer Break	3:45 PM	ELT324: Integrated Three-Level GAN Inverter and PMSYNRM Motor for Electric Passenger Vehicles and Medium/Heavy Duty
wi	LT310: Multi-Input Integrated Smart Charger-Inverter System ith Galvanic Isolation Sandun Kuruppu, Western Michigan	4:00 PM	FI T220. High Daylor Industries Charries Contact Daylor and		Trucks (GANIN_PMSYNRM), Kevin Bai, University of Tennessee
	LT290: Behind-the-Meter-Storage, Anthony Burrell, National		ELT239: High-Power Inductive Charging System Development and Integration for Mobility, Omer Onar, ORNL		ELT 275: Low-Cost Rare-Earth Free Electric Drivetrain Enabled by Novel Permanent Magnets, Inverter, Integrated Design and Advanced Thermal Management, Ayman El-Refaie, Marquette
	enewable Energy Laboratory	5:00 PM		4:45 PM	University
5:15 PM	Day 1 Ends	5:15 PM	Day 2 Ends	4.40 FIVI	Day 3 Ends