



U.S. DEPARTMENT
of **ENERGY**

Office of Critical Minerals
and Energy Innovation



2025 Annual Merit Review Vehicle Technologies Office

Results Report

December 2025

4. Energy Efficient Mobility Systems

The Vehicle Technologies Office (VTO) funds research and development (R&D) of engines, batteries, power electronics, motors, materials, and transportation systems. VTO leverages the unique capabilities and world-class expertise of the national laboratory system to innovate new vehicle technologies. VTO is uniquely positioned to accelerate innovative transportation technologies due to strategic public-private research partnerships with industry (e.g., the U.S. DRIVE Partnership, the 21st Century Truck Partnership) that leverage relevant expertise. These partnerships prevent duplication of effort, focus U.S. Department of Energy (DOE) research on critical R&D barriers, and accelerate progress.

The Energy Efficient Mobility Systems (EEMS) subprogram supports research, development, and demonstration of innovative mobility solutions that improve the affordability, accessibility, and energy efficiency of the overall transportation system. EEMS leverages emerging technologies such as connected and automated vehicles, information-based mobility-as-a-service platforms, and artificial intelligence (AI)-based transportation control systems to improve transportation energy efficiency through low-cost and domestic energy technologies. The EEMS subprogram also develops and utilizes large-scale transportation modeling and simulation capabilities to evaluate the impacts of new mobility solutions across multiple geographies and populations, ensuring that all Americans benefit from the development and deployment of innovative transportation technologies.

EEMS' research can be broadly characterized into three areas: modeling and simulation, connected and automated vehicle technologies, and other emerging technologies. Research and development of innovative mobility-system level approaches can result in multiple benefits including household and business cost savings by reducing transportation costs (e.g., frequency of maintenance, fuel, time lost in traffic, and parking costs), supporting local economies and job creation, increased accessibility and community connectivity, emissions reductions of criteria pollutants for cleaner air, and the reduction of emissions.

Project Feedback

In this merit review activity, each reviewer was asked to respond to a series of questions, involving multiple-choice responses, expository responses where text comments were requested, and numeric score responses (on a scale of 1.0 to 4.0). In the pages that follow, the multiple choice and numeric score questions will be presented in graph form for each project. A table presenting the average numeric score for each question for each project is presented below.

Table 4-1 – Project Feedback

Presentation ID	Presentation Title	Principal Investigator (Organization)	Page Number	Approach	Technical Accomplishments	Collaboration	Future Research	Weighted Average
EEMS013	ANL Core Modeling A3 – AMBER, Autonomie, Aeronomie	Phil Sharer (Argonne National Laboratory)	4-10	3.50	3.50	3.75	3.25	3.50
EEMS041	AVATAR	Dominik Karbowski (Argonne National Laboratory)	4-11	3.75	3.50	3.50	3.75	3.59
EEMS066	Livewire Data Platform – A Solution for Energy Efficient Mobility Systems (EEMS) Data Sharing	Lauren Spath-Luhning (National Renewable Energy Laboratory)	4-12	3.50	3.75	3.50	3.25	3.59
EEMS092	Multiregion Stakeholder Driven BEAM CORE Application	Anna Spurlock (Lawrence Berkeley National Laboratory)	4-13	3.50	3.50	3.75	3.50	3.53
EEMS094	ENACTED	Dominik Karbowski (Argonne National Laboratory)	4-14	3.33	3.33	3.67	3.33	3.38

Presentation ID	Presentation Title	Principal Investigator (Organization)	Page Number	Approach	Technical Accomplishments	Collaboration	Future Research	Weighted Average
EEMS099	MEP Core Tools	Venu Garikapati (National Renewable Energy Laboratory)	4-15	3.50	3.50	4.00	3.50	3.56
EEMS101	Core Tools: Real-Sim	Max Chen (Oak Ridge National Laboratory)	4-16	3.50	3.50	3.50	3.50	3.50
EEMS106	Developing an Energy-Conscious Traffic Signal Control System for Optimized Fuel Consumption in Connected Vehicle Environments	Mina Saritipi (University of Tennessee at Chattanooga)	4-17	3.67	3.50	3.67	3.67	3.58
EEMS110	Human Factors and Technologies Design to Improve User Acceptance of Pooled Rideshare (PR) for Increasing Transportation System Energy Efficiency	Yunyi Jia (Clemson University)	4-18	3.50	3.50	3.50	3.50	3.50
EEMS112	NREL Core Modeling & Decision Support Capabilities (RouteE, FASTSim, OpenPATH, T3CO)	Jeff Gonder (National Renewable Energy Laboratory)	4-19	3.25	3.25	3.75	3.50	3.34

Presentation ID	Presentation Title	Principal Investigator (Organization)	Page Number	Approach	Technical Accomplishments	Collaboration	Future Research	Weighted Average
EEMS113	Testing and Evaluation of Curb Management and Integrated Strategies to Catalyze Market Adoption of Electric Vehicles	Lauren Harper (Los Angeles Cleantech Incubator)	4-20	3.50	3.50	3.50	N/A	3.50
EEMS114	Real Twin	Ross Wang (Oak Ridge National Laboratory)	4-21	3.00	2.75	3.00	2.75	2.84
EEMS115	Developing a Multiscale Simulation Framework to Evaluate Autonomous Vehicle On-Board Compute Energy-Efficiency, Performance, and Reliability	Ben Feinberg (Sandia National Laboratories)	4-22	3.00	2.50	2.75	2.50	2.66
EEMS116	High-Quality Perception Data	Zach Asher (Western Michigan University)	4-23	2.50	2.50	2.50	N/A	2.50
EEMS117	Visual-Enhanced Cooperative Traffic Operations (VECTOR) System	Achilleas Kourtellis (University of South Florida)	4-24	2.50	2.33	3.33	2.17	2.48

Presentation ID	Presentation Title	Principal Investigator (Organization)	Page Number	Approach	Technical Accomplishments	Collaboration	Future Research	Weighted Average
EEMS119	Improved Mobility and Energy Savings Through Optimization of Cooperative Driving Automation (CDA) Application for Signal Controls for Arterial Mixed Traffic Scenarios	Xiao-Yun Lu (Lawrence Berkeley National Laboratory)	4-25	3.00	3.00	3.50	3.50	3.13
EEMS120	A Cooperative Driving Automation (CDA) Framework for Communications	Adian Cook (Oak Ridge National Laboratory)	4-26	3.25	3.50	3.25	3.25	3.38
EEMS122	Pathways to Affordable, Convenient, Efficient Regional Mobility	Joshua Auld (Argonne National Laboratory)	4-27	3.50	3.75	4.00	3.50	3.69
EEMS123	Freight in the Loop	Kevin Stutenberg (Argonne National Laboratory)	4-28	3.00	3.38	3.25	3.38	3.27
EEMS124	Deployment of Real-Sim/Real-Twin Scenario Library Generation and Benchmark of Energy Centric CAV Controls	Ross Wang (Oak Ridge National Laboratory)	4-29	3.67	3.83	3.83	3.67	3.77

Presentation ID	Presentation Title	Principal Investigator (Organization)	Page Number	Approach	Technical Accomplishments	Collaboration	Future Research	Weighted Average
EEMS125	Energy Metrics in Traffic Signal Performance Measures	Joseph Fish (National Renewable Energy Laboratory)	4-30	3.33	3.33	3.17	3.17	3.29
EEMS127	Deploying Autonomous, On-Demand Energy Efficient Mobility Solutions in Tulsa's Underserved Communities	Samitha Samaranyake (Cornell University)	4-31	3.17	3.17	3.50	3.00	3.19
EEMS128	National Impacts of Community-Level Strategies to Improve Convenience of Mobility	Chris Hoehne (National Renewable Energy Laboratory)	4-32	3.00	3.00	3.00	3.00	3.00
EEMS129	Using Artificial Intelligence to Predict Ridership and Optimize Shared Mobility	Josh Rands (Terracity)	4-33	3.25	3.00	3.00	3.00	3.06
EEMS132	POLARIS – Transportation Systems and Mobility Tools Core Maintenance	Joshua Auld (Argonne National Laboratory)	4-34	3.75	3.50	3.75	3.50	3.59
EEMS133	ITES4: Integrated Transportation and Energy Cross-Sectoral System of Systems at Scale	Joshua Auld (Argonne National Laboratory)	4-35	3.33	3.17	3.00	3.17	3.19

Presentation ID	Presentation Title	Principal Investigator (Organization)	Page Number	Approach	Technical Accomplishments	Collaboration	Future Research	Weighted Average
EEMS134	Development of Standardized Test Procedures for CV and AV Energy Consumption and Emissions	Michael Duoba (Argonne National Laboratory)	4-36	3.63	3.50	3.25	3.63	3.52
EEMS135	Energy-Transit Nexus Tools for Bus Fleet Electrification (NEXTBUS)	Jake Holden (National Renewable Energy Laboratory)	4-37	3.67	3.67	3.33	3.67	3.63
EEMS136	A Facility Scale Automated Mobility System	Jered Dean (LUCI Mobility)	4-38	3.50	3.50	3.25	3.75	3.50
EEMS137	Increasing Mobility Energy Productivity, Operational Efficiency, with Low-Speed Automation for On-Demand Transit or Goods Movement in First-Mile/Last-Mile	Anuja Sonalker (STEER Tech)	4-39	3.75	3.50	3.50	3.50	3.56
EEMS138	Mauka Energy FEVER: Tool Developing Heavy Duty Electric Vehicle Energy Transportation Cost Mapping	David Hamilton (Oregon State University)	4-40	3.75	4.00	3.75	3.75	3.88
EEMS139	AI-Powered Autonomy-Aware Neighborhood Mobility Zones	Philip Pugliese (Chattanooga Transit)	4-41	3.38	3.25	3.25	3.38	3.30

Presentation ID	Presentation Title	Principal Investigator (Organization)	Page Number	Approach	Technical Accomplishments	Collaboration	Future Research	Weighted Average
EEMS140	Multi-Level Connected and Automated Transit System (M-CATS)	Jinhua Zhao (Massachusetts Institute of Technology)	4-42	2.75	2.50	3.25	3.00	2.72
EEMS141	Co-E3T: Energy-Efficient and Equitable Transit through User-Centric Hardware and Software Co-Development and Community Co-Design, University of Alabama Transit	Xinwu Qian (Rice University)	4-43	3.38	3.38	3.25	3.00	3.31
EEMS142	Improving Accessibility and Efficiency of Public Transportation via Optimal Integration with Shared Autonomous Electric Vehicles in Tribal Communities	Dong Zhang (The University of Oklahoma)	4-44	3.17	3.33	3.50	3.50	3.33
EEMS143	Energy Efficient Sensing and Computing for AVs	Robert Patton (Oak Ridge National Laboratory)	4-45	3.50	3.25	3.25	3.50	3.34
EEMS144	RoadRunner Core Tools	Dominik Karbowski (Argonne National Laboratory)	4-46	3.25	3.50	3.50	3.25	3.41

Presentation ID	Presentation Title	Principal Investigator (Organization)	Page Number	Approach	Technical Accomplishments	Collaboration	Future Research	Weighted Average
EEMS145	BEAM CORE Core Tools	Anna Spurlock (Lawrence Berkeley National Laboratory)	4-47	3.75	3.50	3.25	3.75	3.56
EEMS146	Distributed Artificial-intelligence (AI)-based Signal Control (DASiC)	Ross Wang (Oak Ridge National Laboratory)	4-48	3.00	3.00	3.50	3.33	3.10
EEMS148	Blueprinting Electrified Transit System Implementation †	Noah Horesh (Colorado State University)	4-49	2.75	3.25	3.00	3.25	3.09
EEMS149	Next Generation Transit Mobility System†	Jason Hanlin (Flow State Analytics)	4-50	3.75	3.75	3.75	3.00	3.66
EEMS150	Offline Reinforcement Learning-Based Traffic Management to Improve System Wide Energy Efficiency†	Lokendra Chauhan (Qen Labs Inc.)	4-51	3.00	3.00	2.83	2.83	2.96
EEMS151	Sustainable Means of Urban Transportation for Cities†	Tony Gale (Swift Rails)	4-52	2.50	2.38	2.25	2.75	2.44
Overall Average				3.31	3.29	3.36	3.30	3.30

† Denotes a poster presentation.

Presentation Number:

EEMS013

Presentation Title:

ANL Core Modeling A3 – AMBER, Autonomie, Aeronomie

Principal Investigator:

Phil Sharer, Argonne National Laboratory

Presenter

Phil Sharer, Argonne National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

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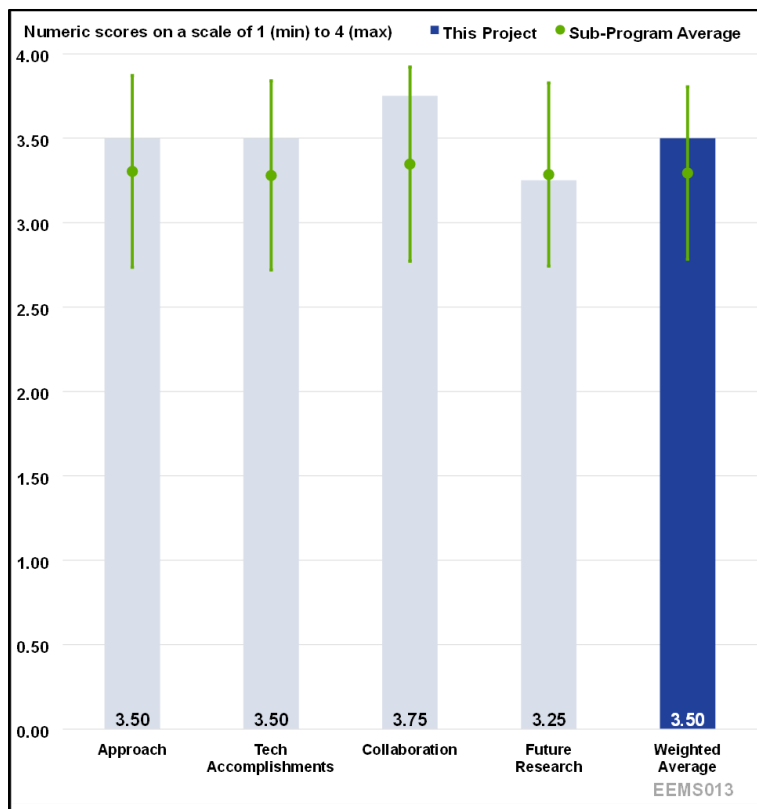


Figure 4-1 - Presentation Number: EEMS013 Presentation Title: ANL Core Modeling A3 – AMBER, Autonomie, Aeronomie Principal Investigator: Phil Sharer, Argonne National Laboratory

Presentation Number:

EEMS041

Presentation Title:

AVATAR

Principal Investigator:

Dominik Karbowski, Argonne National Laboratory

Presenter

Dominik Karbowski, Argonne National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

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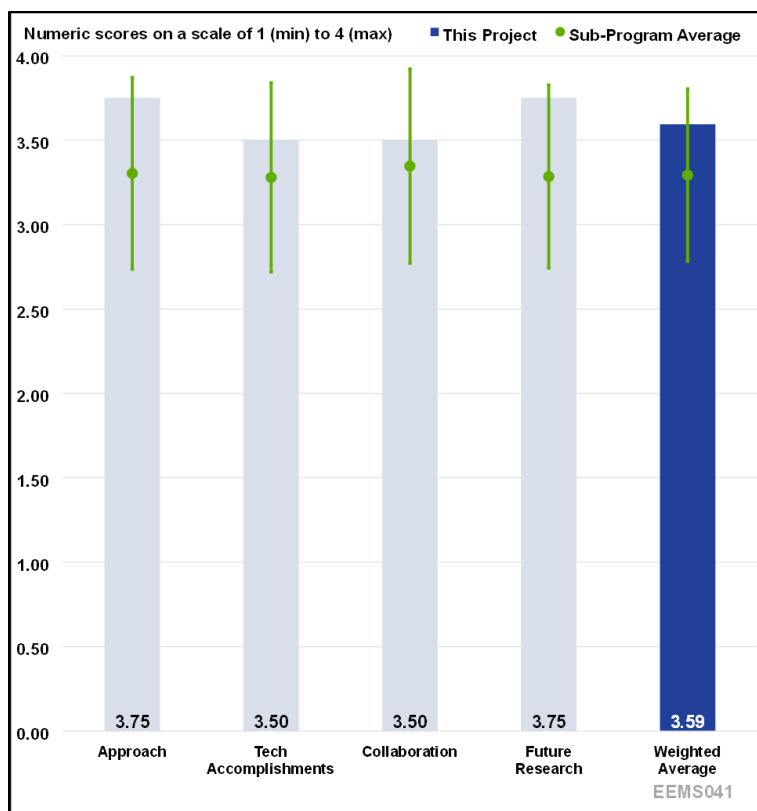


Figure 4-2 - Presentation Number: EEMS041 Presentation Title: AVATAR Principal Investigator: Dominik Karbowski, Argonne National Laboratory

Presentation Number:

EEMS066

Presentation Title:

Livewire Data Platform – A Solution for Energy Efficient Mobility Systems (EEMS) Data Sharing

Principal Investigator:

Lauren Spath-Luhring, National Renewable Energy Laboratory

Presenter

Lauren Spath-Luhring, National Renewable Energy Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

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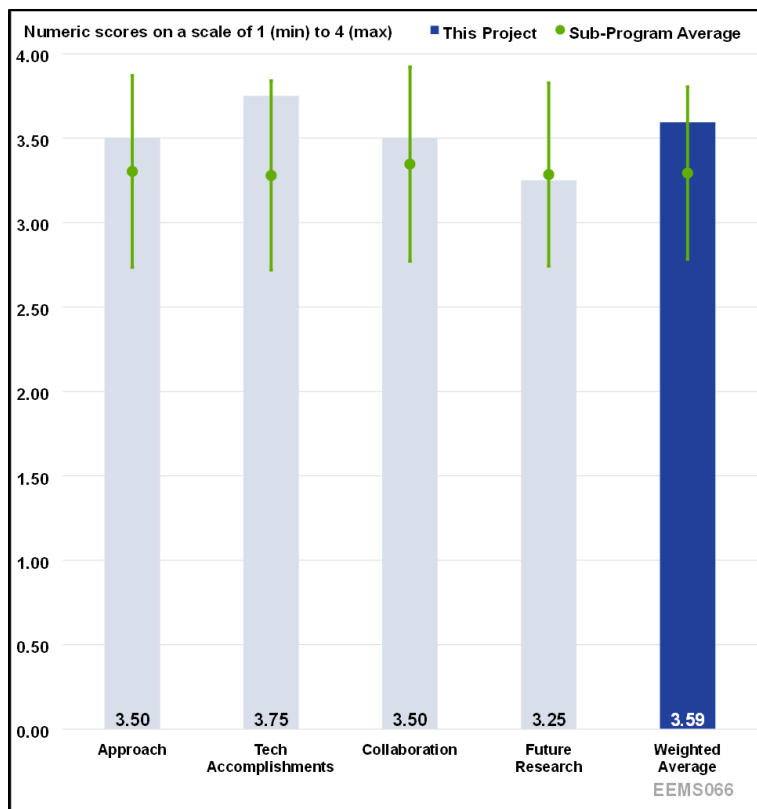


Figure 4-3 - Presentation Number: EEMS066 Presentation Title: Livewire Data Platform – A Solution for Energy Efficient Mobility Systems (EEMS) Data Sharing Principal Investigator: Lauren Spath-Luhring, National Renewable Energy Laboratory

Presentation Number:

EEMS092

Presentation Title:

Multiregion Stakeholder Driven
BEAM CORE Application

Principal Investigator:

Anna Spurlock, Lawrence Berkeley
National Laboratory

Presenter

Anna Spurlock, Lawrence Berkeley
National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated
this project.

Project Relevance and Resources

100% of reviewers felt that the
project was relevant to current DOE
objectives, 0% of reviewers felt that
the project was not relevant, and
0% of reviewers did not indicate an
answer. 100% of reviewers felt that
the resources were sufficient, 0%
of reviewers felt that the resources
were insufficient, 0% of reviewers
felt that the resources were
excessive, and 0% of reviewers did
not indicate an answer.

Presentation Link:

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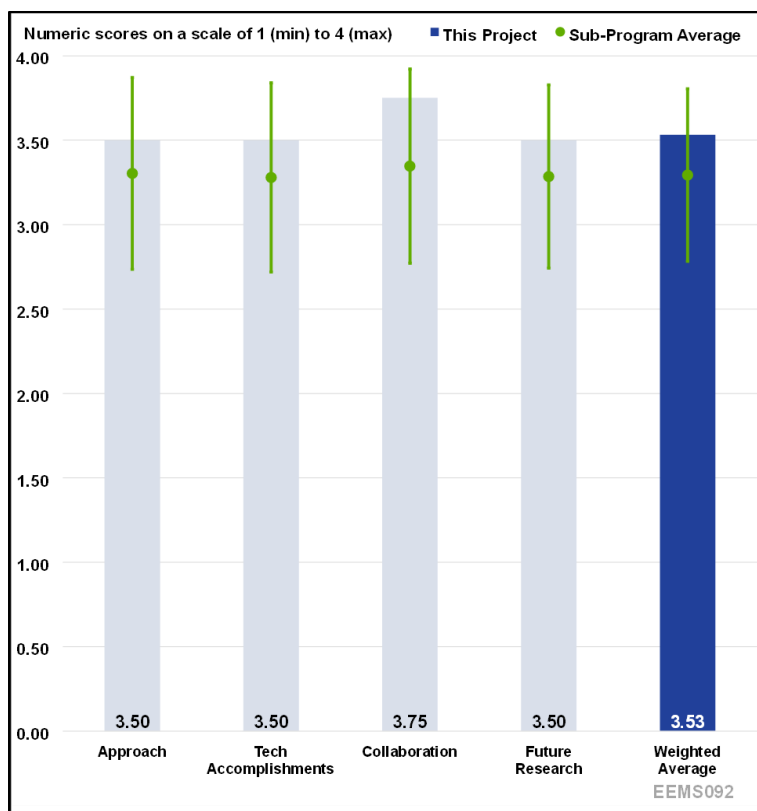


Figure 4-4 - Presentation Number: EEMS092 Presentation Title: Multiregion Stakeholder Driven BEAM CORE Application Principal Investigator: Anna Spurlock, Lawrence Berkeley National Laboratory

Presentation Number:

EEMS094

Presentation Title:

ENACTED

Principal Investigator:

Dominik Karbowski, Argonne
National Laboratory

Presenter

Dominik Karbowski, Argonne
National Laboratory

Reviewer Sample Size

A total of three reviewers evaluated
this project.

Project Relevance and Resources

100% of reviewers felt that the
project was relevant to current DOE
objectives, 0% of reviewers felt that
the project was not relevant, and
0% of reviewers did not indicate an
answer. 100% of reviewers felt that
the resources were sufficient, 0% of
reviewers felt that the resources
were insufficient, 0% of reviewers
felt that the resources were
excessive, and 0% of reviewers did
not indicate an answer.

Presentation Link:

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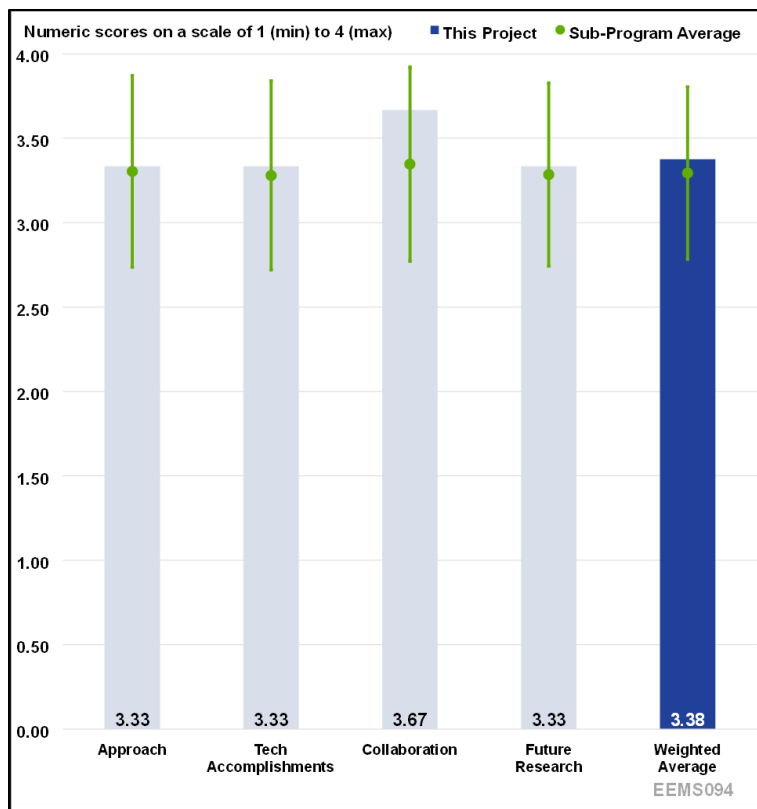


Figure 4-5 - Presentation Number: EEMS094 Presentation Title: ENACTED Principal Investigator: Dominik Karbowski, Argonne National Laboratory

Presentation Number:

EEMS099

Presentation Title:

MEP Core Tools

Principal Investigator:

Venu Garikapati, National
Renewable Energy Laboratory

Presenter

Venu Garikapati, National
Renewable Energy Laboratory

Reviewer Sample Size

A total of one reviewer evaluated
this project.

Project Relevance and Resources

100% of reviewers felt that the
project was relevant to current DOE
objectives, 0% of reviewers felt that
the project was not relevant, and
0% of reviewers did not indicate an
answer. 100% of reviewers felt that
the resources were sufficient, 0% of
reviewers felt that the resources
were insufficient, 0% of reviewers
felt that the resources were
excessive, and 0% of reviewers did
not indicate an answer.

Presentation Link:

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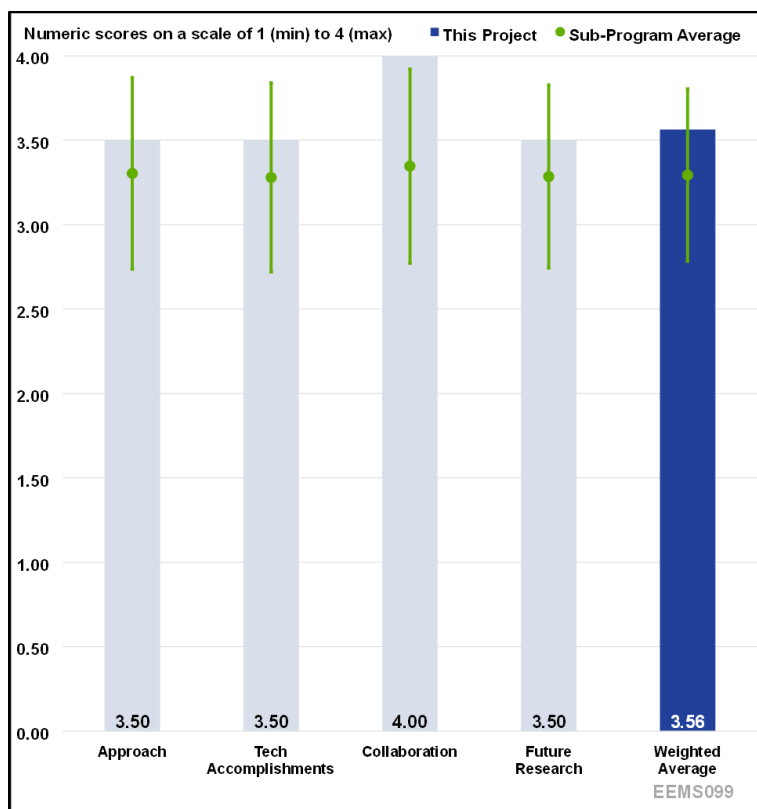


Figure 4-6 - Presentation Number: EEMS099 Presentation Title: MEP Core Tools Principal Investigator: Venu Garikapati, National Renewable Energy Laboratory

Presentation Number:

EEMS101

Presentation Title:

Core Tools: Real-Sim

Principal Investigator:

Max Chen, Oak Ridge National Laboratory

Presenter

Max Chen, Oak Ridge National laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

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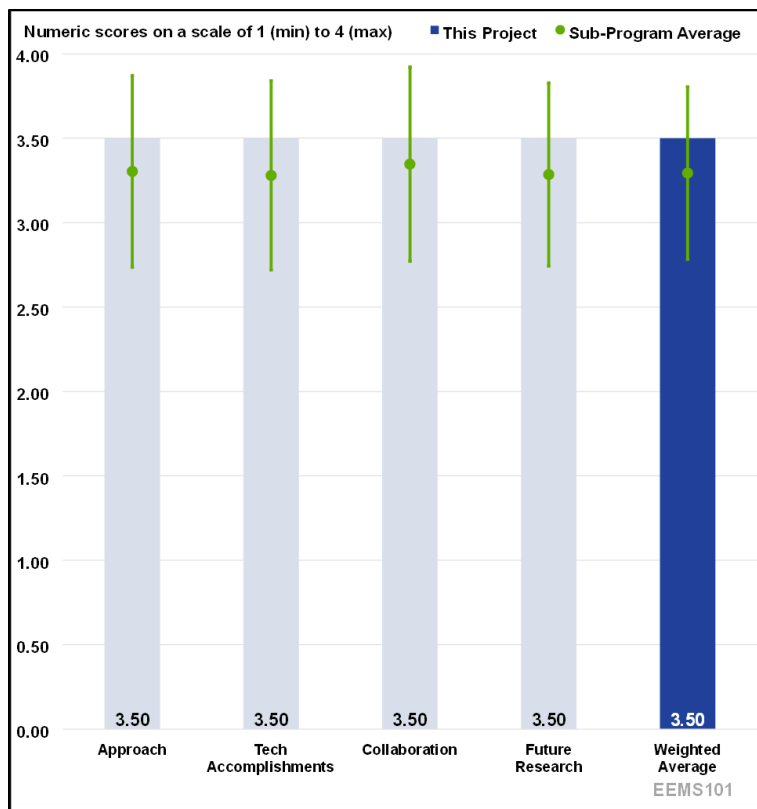


Figure 4-7 - Presentation Number: EEMS101 Presentation Title: Core Tools: Real-Sim Principal Investigator: Max Chen, Oak Ridge National Laboratory

Presentation Number:

EEMS106

Presentation Title:

Developing an Energy-Conscious Traffic Signal Control System for Optimized Fuel Consumption in Connected Vehicle Environments

Principal Investigator:

Mina Saritipi, University of Tennessee at Chattanooga

Presenter

Abilasha Saroj, Oak Ridge National Laboratory

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

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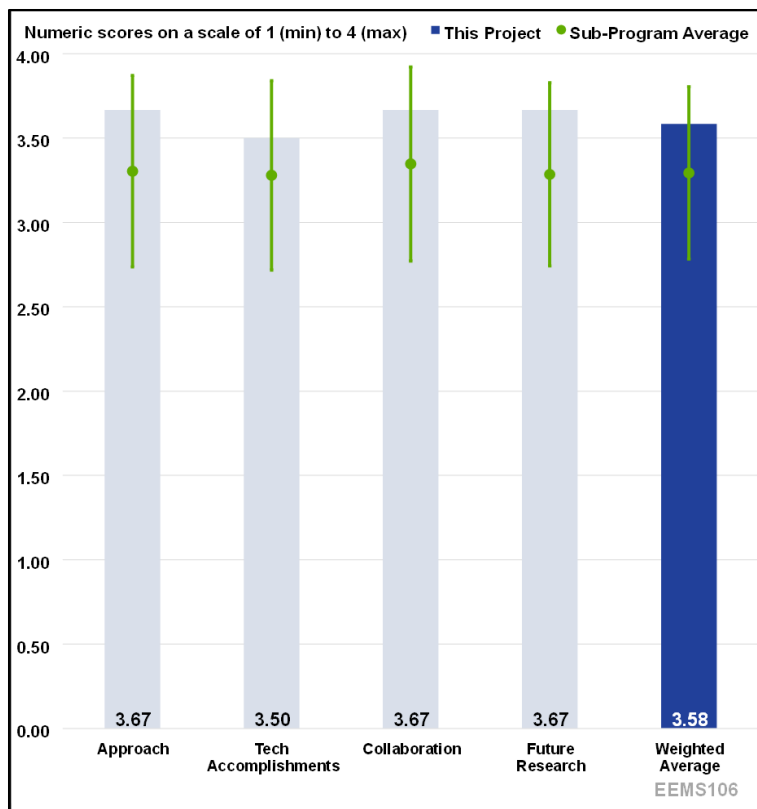


Figure 4-8 - Presentation Number: EEMS106 Presentation Title: Developing an Energy-Conscious Traffic Signal Control System for Optimized Fuel Consumption in Connected Vehicle Environments Principal Investigator: Mina Saritipi, University of Tennessee at Chattanooga

Presentation Number:

EEMS110

Presentation Title:

Human Factors and Technologies Design to Improve User Acceptance of Pooled Rideshare (PR) for Increasing Transportation System Energy Efficiency

Principal Investigator:

Yunyi Jia, Clemson University

Presenter

Yunyi Jia/Johnell Brooks, Clemson University

Reviewer Sample Size

A total of one reviewer evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

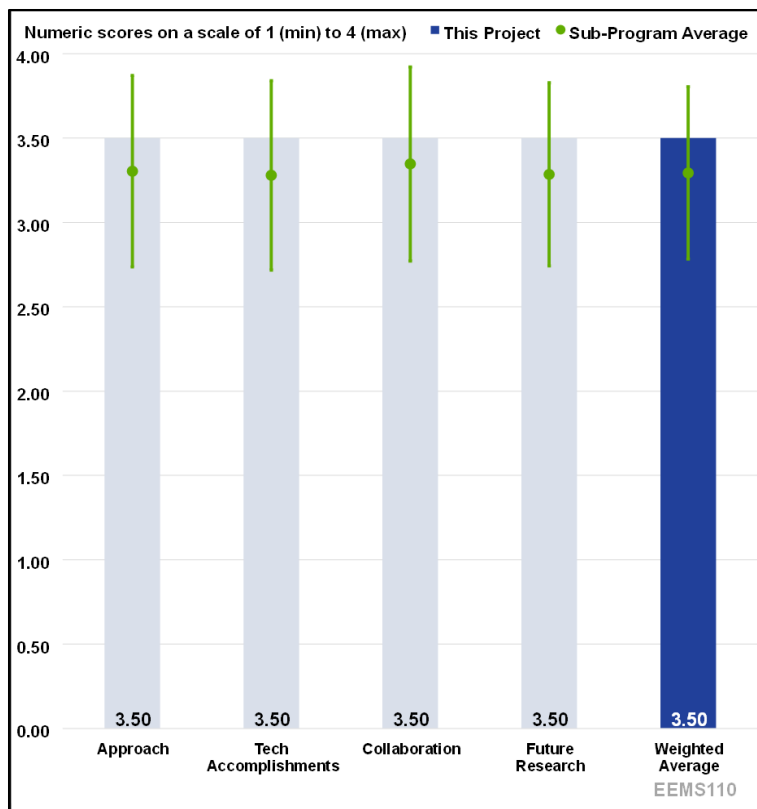


Figure 4-9 - Presentation Number: EEMS110 Presentation Title: Human Factors and Technologies Design to Improve User Acceptance of Pooled Rideshare (PR) for Increasing Transportation System Energy Efficiency Principal Investigator: Yunyi Jia, Clemson University

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS110_Jia_2025_o.pdf

Presentation Number:

EEMS112

Presentation Title:

NREL Core Modeling & Decision Support Capabilities (RouteE, FASTSim, OpenPATH, T3CO)

Principal Investigator:

Jeff Gonder, National Renewable Energy Laboratory

Presenter

Jeff Gonder, National Renewable Energy Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 50% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 50% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

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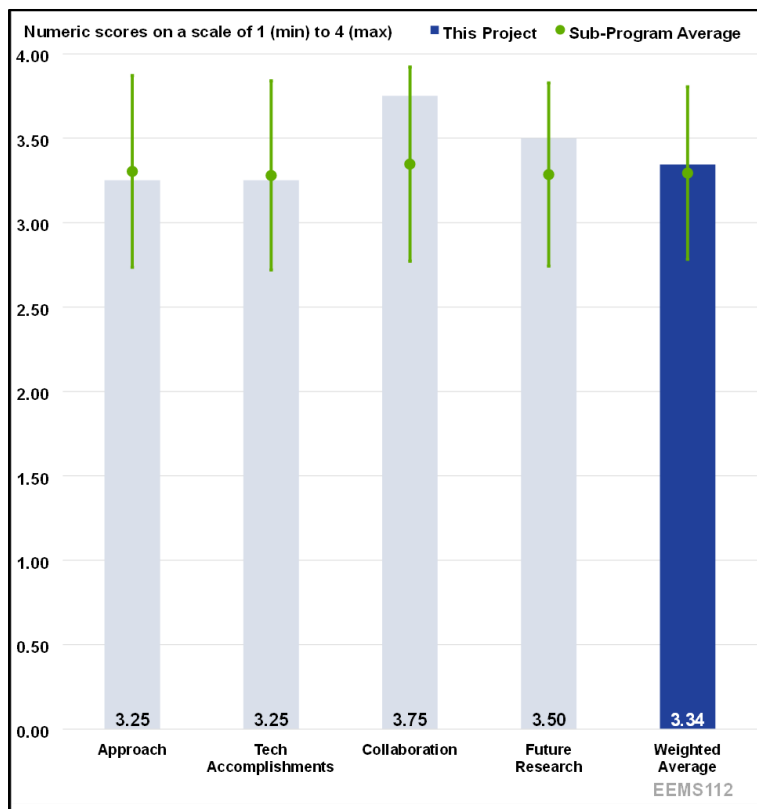


Figure 4-10 - Presentation Number: EEMS112 Presentation Title: NREL Core Modeling & Decision Support Capabilities (RouteE, FASTSim, OpenPATH, T3CO) Principal Investigator: Jeff Gonder, National Renewable Energy Laboratory

Presentation Number:

EEMS113

Presentation Title:

Testing and Evaluation of Curb Management and Integrated Strategies to Catalyze Market Adoption of Electric Vehicles

Principal Investigator:

Lauren Harper, Los Angeles
Cleantech Incubator

Presenter

Lauren Harper, Los Angeles
Cleantech Incubator

Reviewer Sample Size

A total of one reviewer evaluated this project.

Project Relevance and Resources

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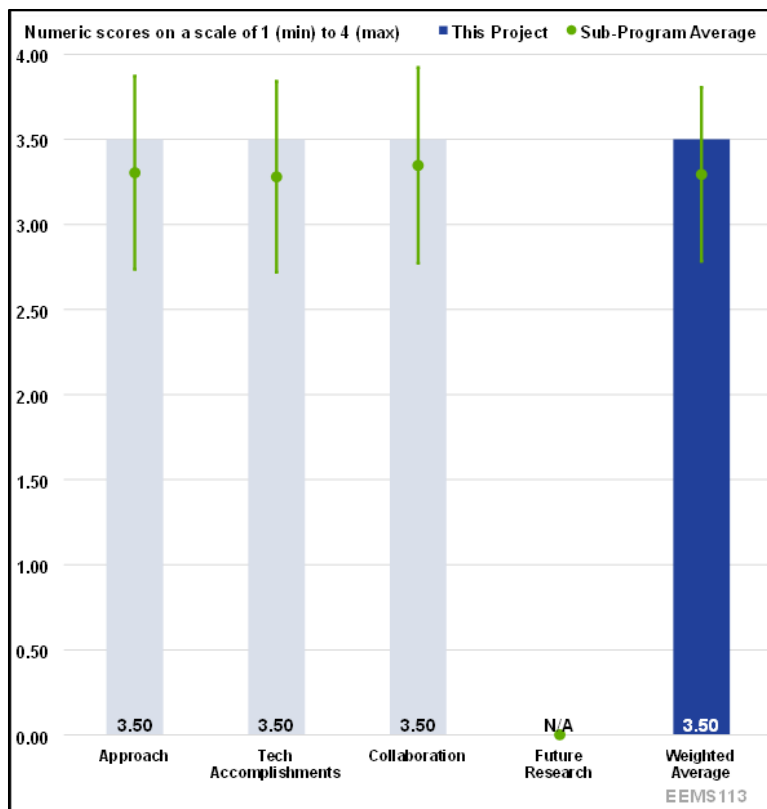


Figure 4-11 - Presentation Number: EEMS113 Presentation Title: Testing and Evaluation of Curb Management and Integrated Strategies to Catalyze Market Adoption of Electric Vehicles Principal Investigator: Lauren Harper, Los Angeles Cleantech Incubator

Presentation Number:

EEMS114

Presentation Title:

Real Twin

Principal Investigator:

Ross Wang, Oak Ridge National Laboratory

Presenter

Ross Wang, Oak Ridge National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

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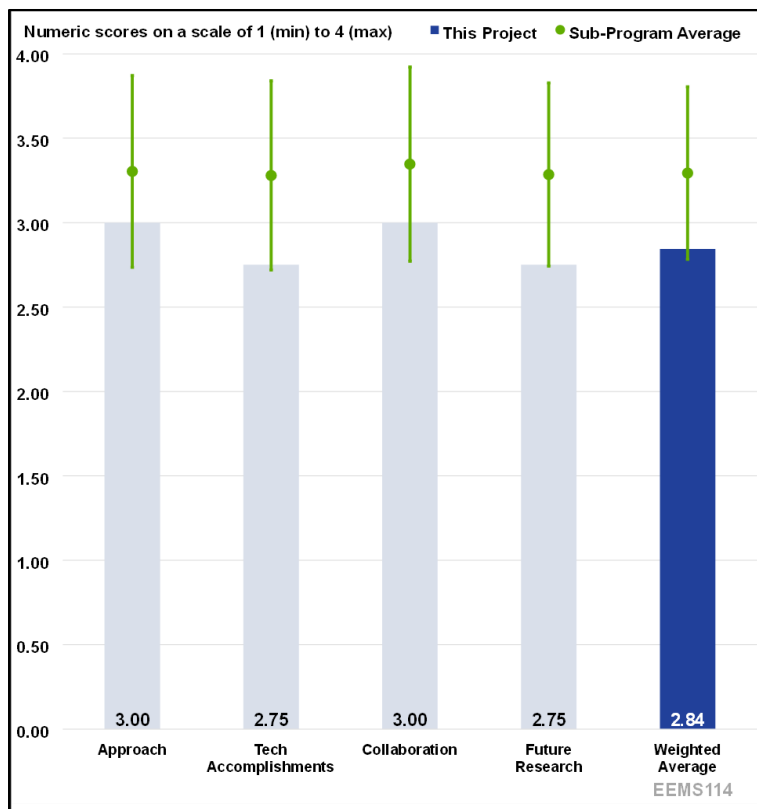


Figure 4-12 - Presentation Number: EEMS114 Presentation Title: Real Twin Principal Investigator: Ross Wang, Oak Ridge National Laboratory

Presentation Number:

EEMS115

Presentation Title:

Developing a Multiscale Simulation Framework to Evaluate Autonomous Vehicle On-Board Compute Energy-Efficiency, Performance, and Reliability

Principal Investigator:

Ben Feinberg, Sandia National Laboratories

Presenter

Ben Feinberg, Sandia National Laboratories

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

50% of reviewers felt that the project was relevant to current DOE objectives, 50% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 50% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 50% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS115_Feinberg_2025_o.pdf

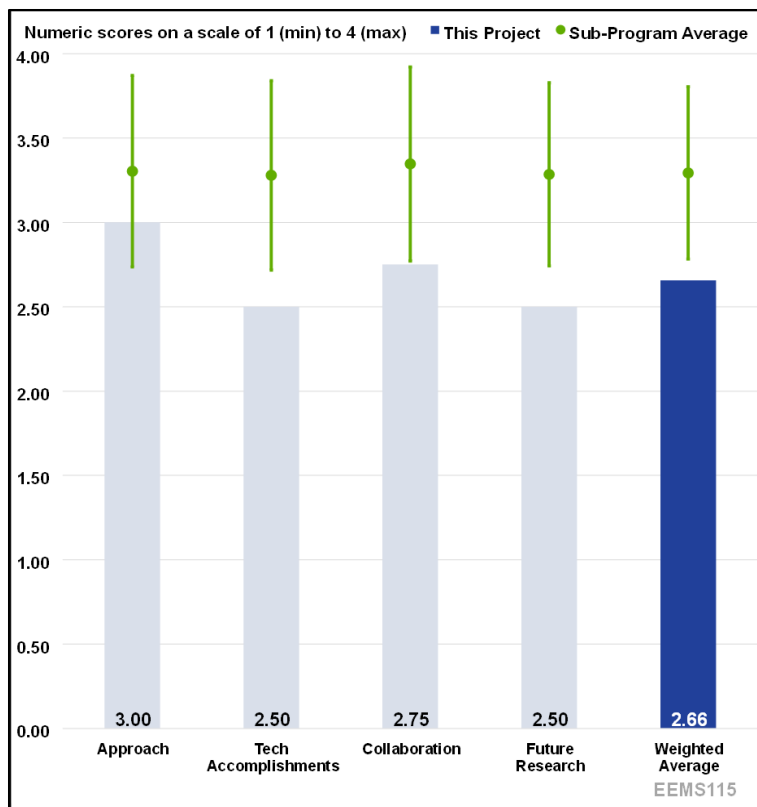


Figure 4-13 - Presentation Number: EEMS115 Presentation Title: Developing a Multiscale Simulation Framework to Evaluate Autonomous Vehicle On-Board Compute Energy-Efficiency, Performance, and Reliability Principal Investigator: Ben Feinberg, Sandia National Laboratories

Presentation Number:

EEMS116

Presentation Title:

High-Quality Perception Data

Principal Investigator:

Zach Asher, Western Michigan University

Presenter

Zach Asher, Western Michigan University

Reviewer Sample Size

A total of one reviewer evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS116_Asher_2025_o.pdf

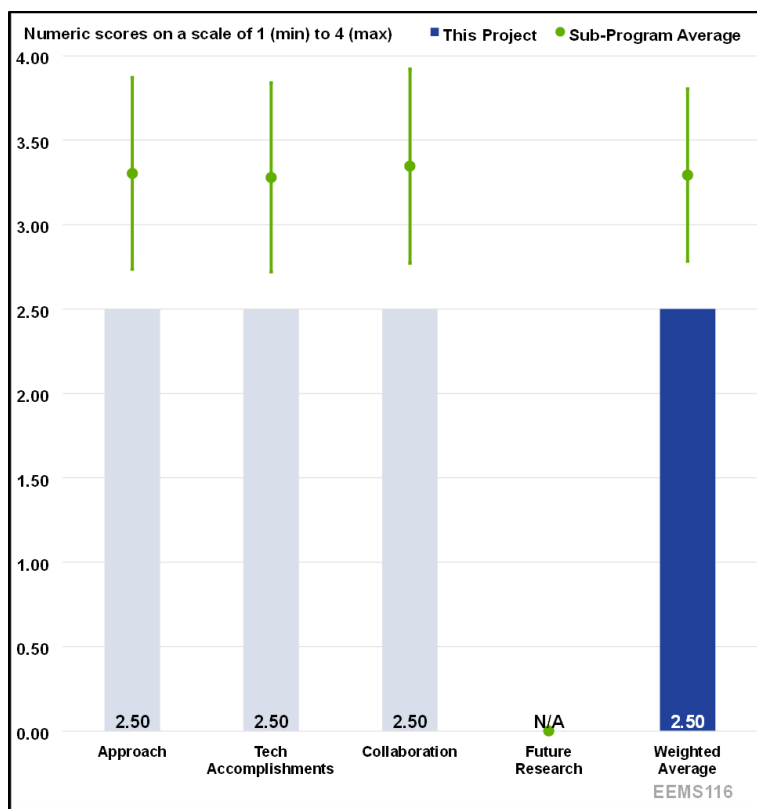


Figure 4-14 - Presentation Number: EEMS116 Presentation Title: High-Quality Perception Data Principal Investigator: Zach Asher, Western Michigan University

Presentation Number:

EEMS117

Presentation Title:

Visual-Enhanced Cooperative Traffic Operations (VECTOR) System

Principal Investigator:

Achilleas Kourtellis, University of South Florida

Presenter

Yaobang Gong, University of South Florida

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 33% of reviewers felt that the resources were sufficient, 33% of reviewers felt that the resources were insufficient, 33% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS117_Kourtellis_2025_o.pdf

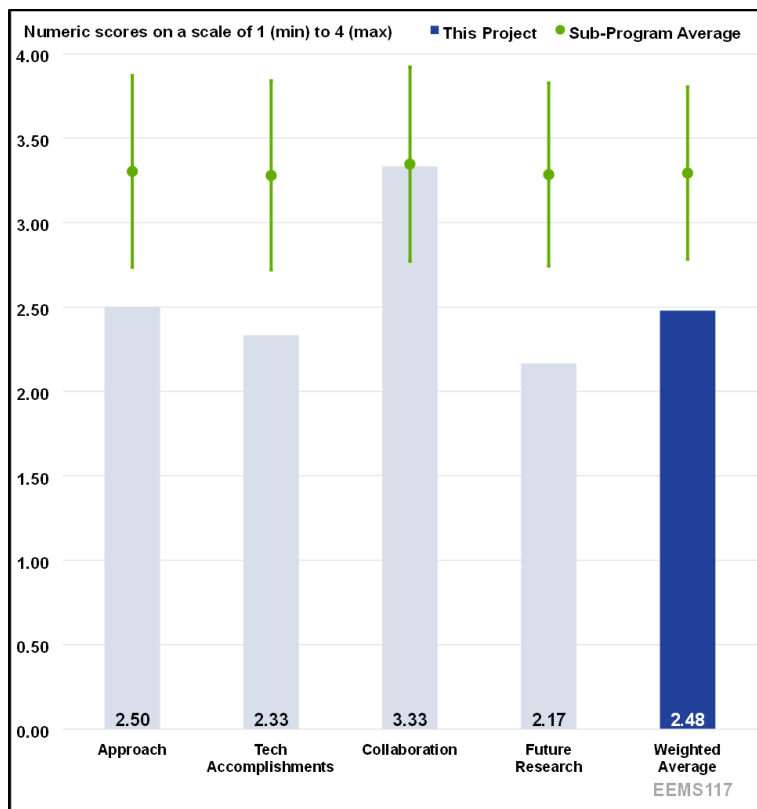


Figure 4-15 - Presentation Number: EEMS117 Presentation Title: Visual-Enhanced Cooperative Traffic Operations (VECTOR) System Principal Investigator: Achilleas Kourtellis, University of South Florida

Presentation Number:

EEMS119

Presentation Title:

Improved Mobility and Energy Savings Through Optimization of Cooperative Driving Automation (CDA) Application for Signal Controls for Arterial Mixed Traffic Scenarios

Principal Investigator:

Xiao-Yun Lu, Lawrence Berkeley National Laboratory

Presenter

Xiao-Yun Lu, Lawrence Berkeley National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS119_HaoLiu_2025_o.pdf

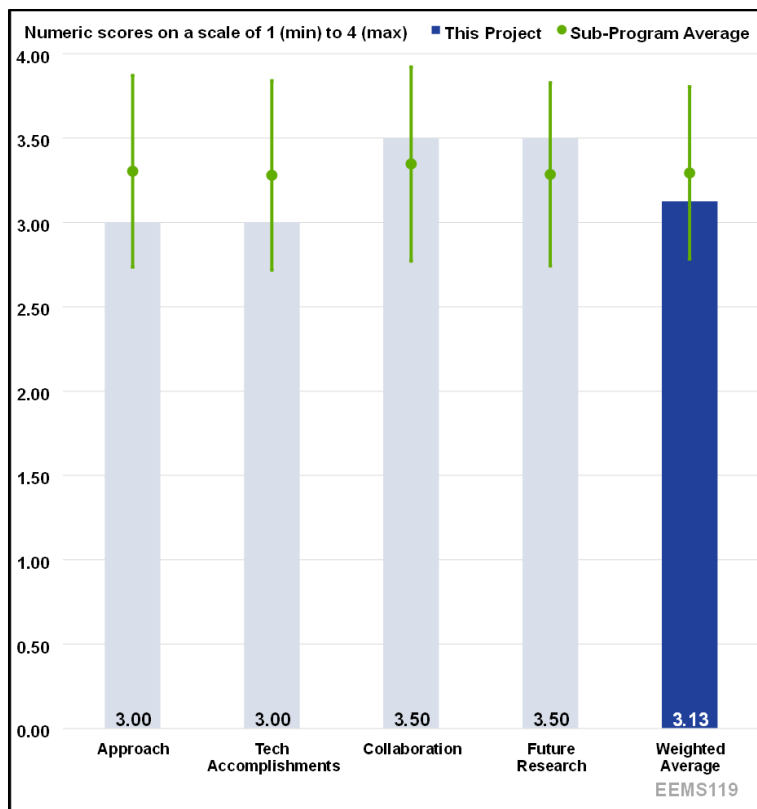


Figure 4-16 - Presentation Number: EEMS119 Presentation Title: Improved Mobility and Energy Savings Through Optimization of Cooperative Driving Automation (CDA) Application for Signal Controls for Arterial Mixed Traffic Scenarios Principal Investigator: Xiao-Yun Lu, Lawrence Berkeley National Laboratory

Presentation Number:

EEMS120

Presentation Title:

A Cooperative Driving Automation (CDA) Framework for Communications

Principal Investigator:

Adian Cook, Oak Ridge National Laboratory

Presenter

Adian Cook/Priyash Misra, Oak Ridge National Laboratory/Argonne National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS120_Cook_Misra_2025_o.pdf

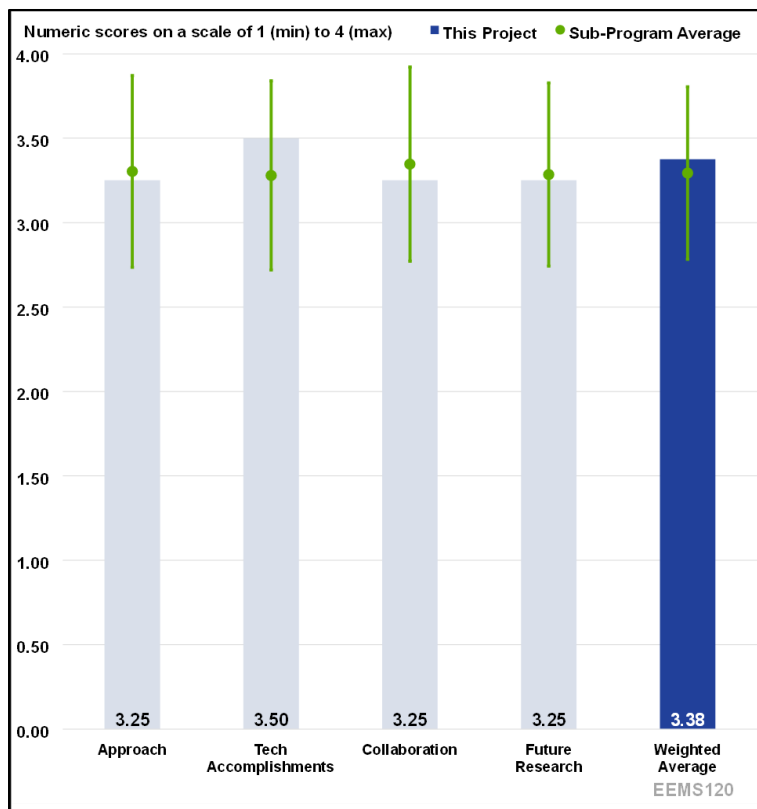


Figure 4-17 - Presentation Number: EEMS120 Presentation Title: A Cooperative Driving Automation (CDA) Framework for Communications Principal Investigator: Adian Cook, Oak Ridge National Laboratory

Presentation Number:

EEMS122

Presentation Title:

Pathways to Affordable, Convenient, Efficient Regional Mobility

Principal Investigator:

Joshua Auld, Argonne National Laboratory

Presenter

Joshua Auld, Argonne National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS122_Auld_2025_o.pdf

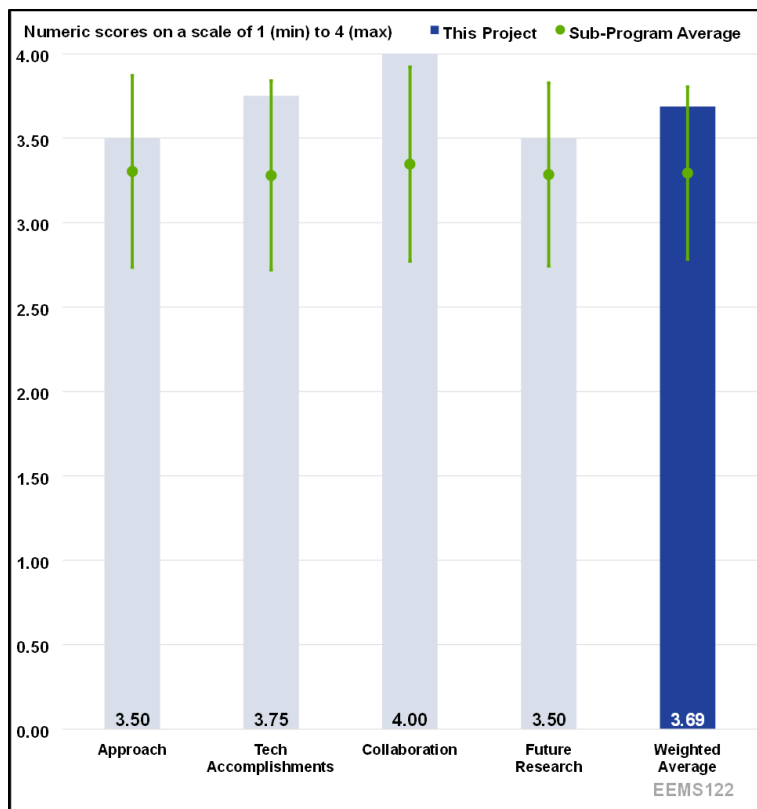


Figure 4-18 - Presentation Number: EEMS122 Presentation Title: Pathways to Affordable, Convenient, Efficient Regional Mobility Principal Investigator: Joshua Auld, Argonne National Laboratory

Presentation Number:

EEMS123

Presentation Title:

Freight in the Loop

Principal Investigator:

Kevin Stutenberg, Argonne National Laboratory

Presenter

Kevin Stutenberg, Argonne National Laboratory

Reviewer Sample Size

A total of four reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS123_Stutenberg_2025_o.pdf

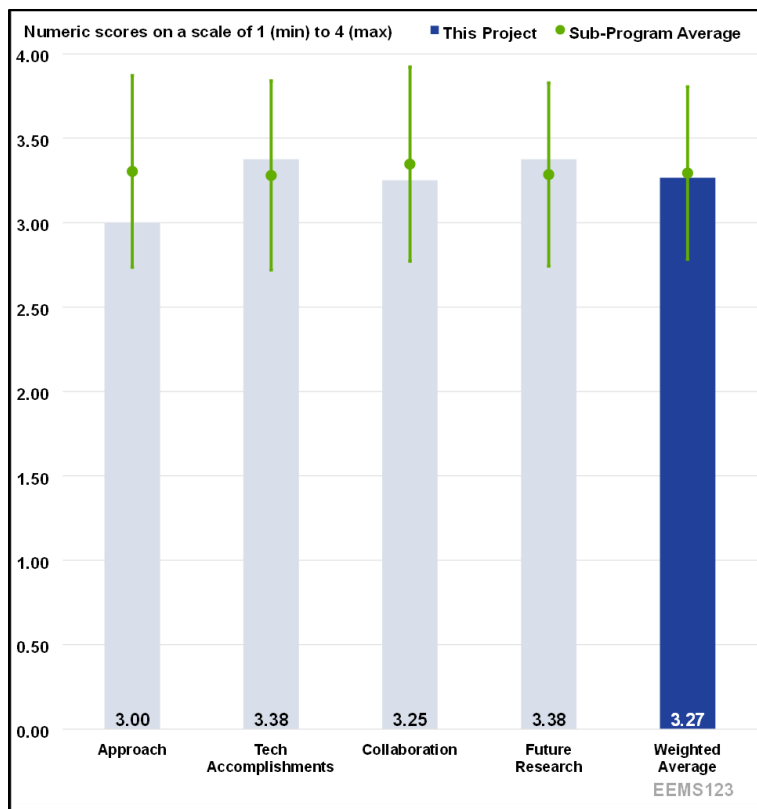


Figure 4-19 - Presentation Number: EEMS123 Presentation Title: Freight in the Loop Principal Investigator: Kevin Stutenberg, Argonne National Laboratory

Presentation Number:

EEMS124

Presentation Title:

Deployment of Real-Sim/Real-Twin Scenario Library Generation and Benchmark of Energy Centric CAV Controls

Principal Investigator:

Ross Wang, Oak Ridge National Laboratory

Presenter

Ross Wang/Max Chen, Oak Ridge National Laboratory

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS124_Wang_2025_o.pdf

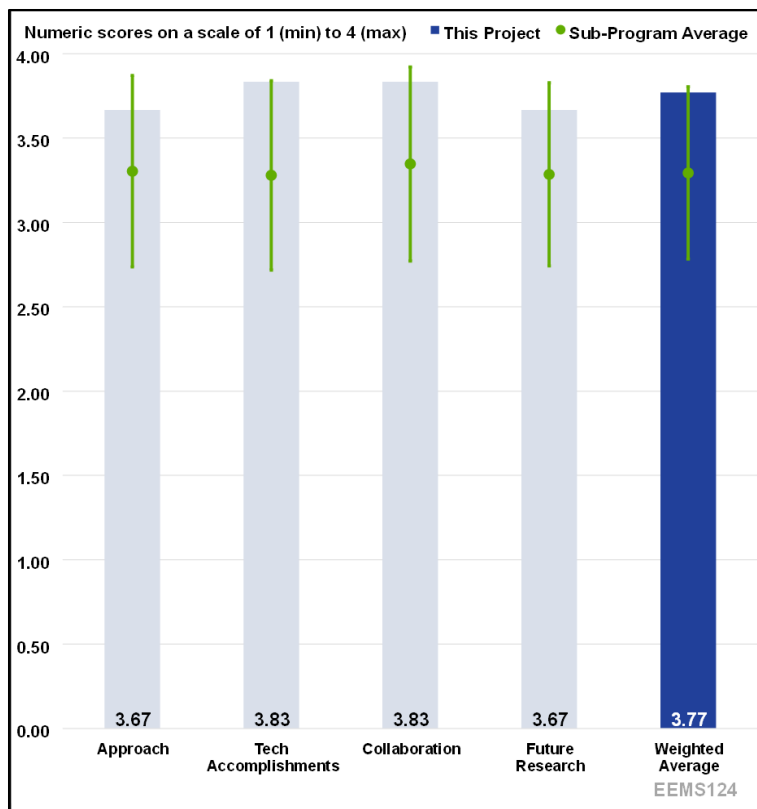


Figure 4-20 - Presentation Number: EEMS124 Presentation Title: Deployment of Real-Sim/Real-Twin Scenario Library Generation and Benchmark of Energy Centric CAV Controls Principal Investigator: Ross Wang, Oak Ridge National Laboratory

Presentation Number:

EEMS125

Presentation Title:

Energy Metrics in Traffic Signal Performance Measures

Principal Investigator:

Joseph Fish, National Renewable Energy Laboratory

Presenter

Joseph Fish, National Renewable Energy Laboratory

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS125_Fish_2025_o.pdf

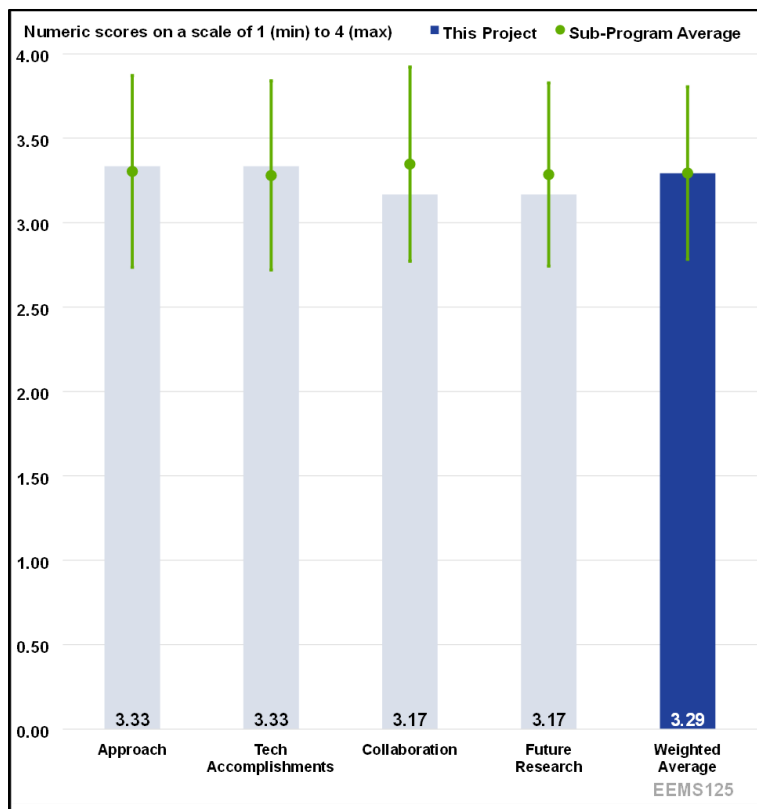


Figure 4-21 - Presentation Number: EEMS125 Presentation Title: Energy Metrics in Traffic Signal Performance Measures Principal Investigator: Joseph Fish, National Renewable Energy Laboratory

Presentation Number:

EEMS127

Presentation Title:

Deploying Autonomous, On-Demand Energy Efficient Mobility Solutions in Tulsa's Underserved Communities

Principal Investigator:

Samitha Samaranayake, Cornell University

Presenter

Samitha Samaranayake, Cornell University

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 67% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 33% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS127_Samaranayake_2025_o.pdf

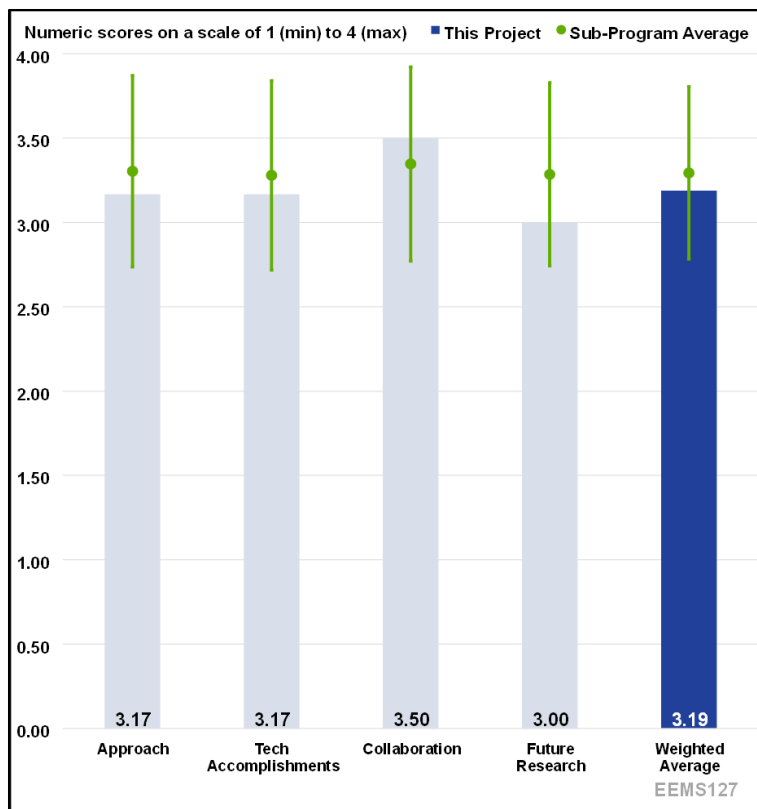


Figure 4-22 - Presentation Number: EEMS127 Presentation Title: Deploying Autonomous, On-Demand Energy Efficient Mobility Solutions in Tulsa's Underserved Communities Principal Investigator: Samitha Samaranayake, Cornell University

Presentation Number:

EEMS128

Presentation Title:

National Impacts of Community-Level Strategies to Improve Convenience of Mobility

Principal Investigator:

Chris Hoehne, National Renewable Energy Laboratory

Presenter

Chris Hoehne, National Renewable Energy Laboratory

Reviewer Sample Size

A total of one reviewer evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

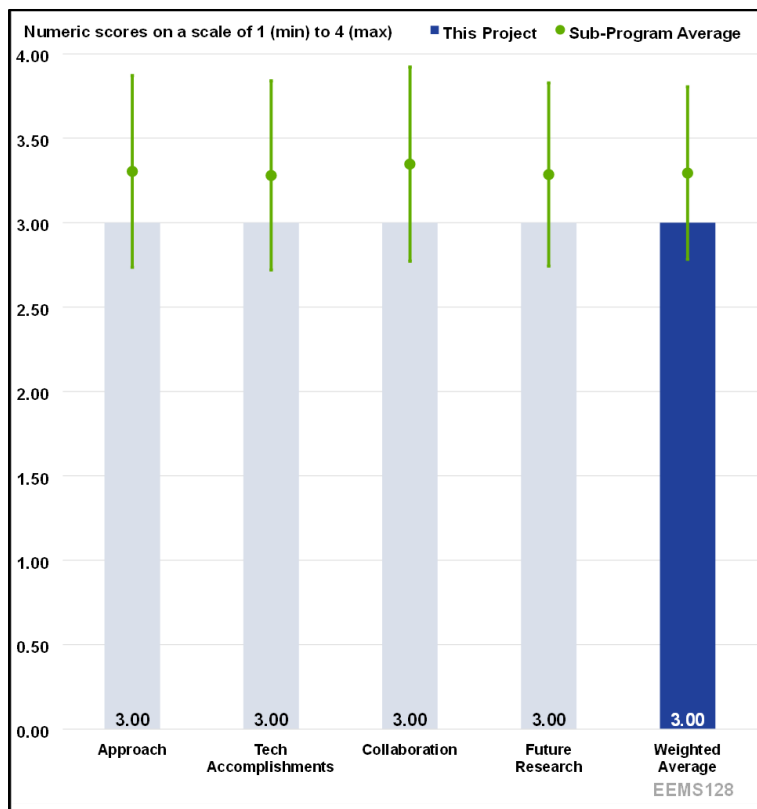


Figure 4-23 - Presentation Number: EEMS128 Presentation Title: National Impacts of Community-Level Strategies to Improve Convenience of Mobility Principal Investigator: Chris Hoehne, National Renewable Energy Laboratory

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS128_Hoehne_2025_o.pdf

Presentation Number:

EEMS129

Presentation Title:

Using Artificial Intelligence to Predict Ridership and Optimize Shared Mobility

Principal Investigator:

Josh Rands, Terracity

Presenter

Josh Rands, Terracity

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 50% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 50% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS129_Rands_2025_o.pdf

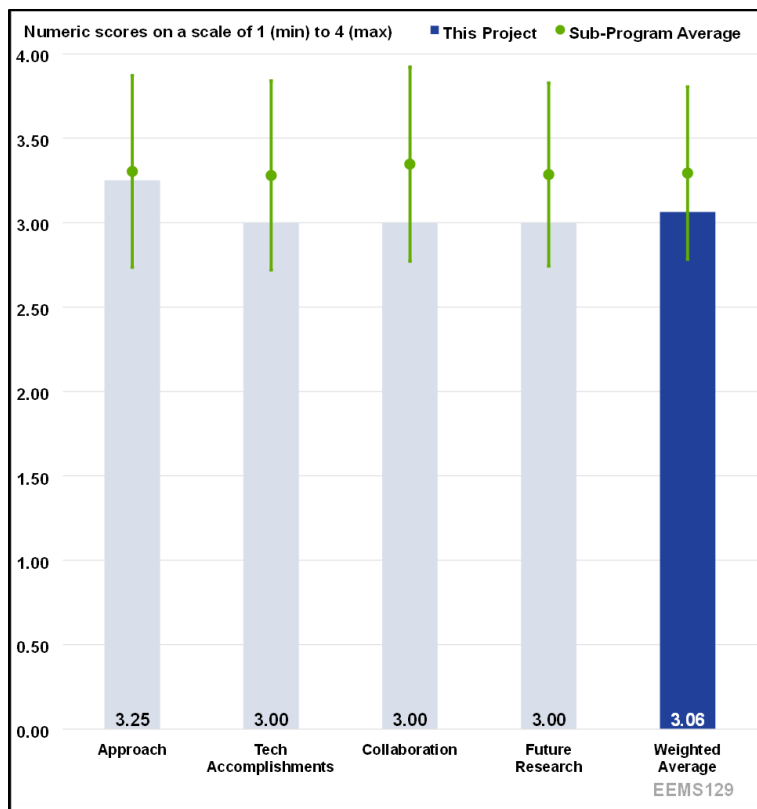


Figure 4-24 - Presentation Number: EEMS129 Presentation Title: Using Artificial Intelligence to Predict Ridership and Optimize Shared Mobility Principal Investigator: Josh Rands, Terracity

Presentation Number:

EEMS132

Presentation Title:

POLARIS – Transportation Systems and Mobility Tools Core Maintenance

Principal Investigator:

Joshua Auld, Argonne National Laboratory

Presenter

Krishna Murthy Gurumurthy,
Argonne National Laboratory

Reviewer Sample Size

A total of four reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS132_Auld_2025_o.pdf

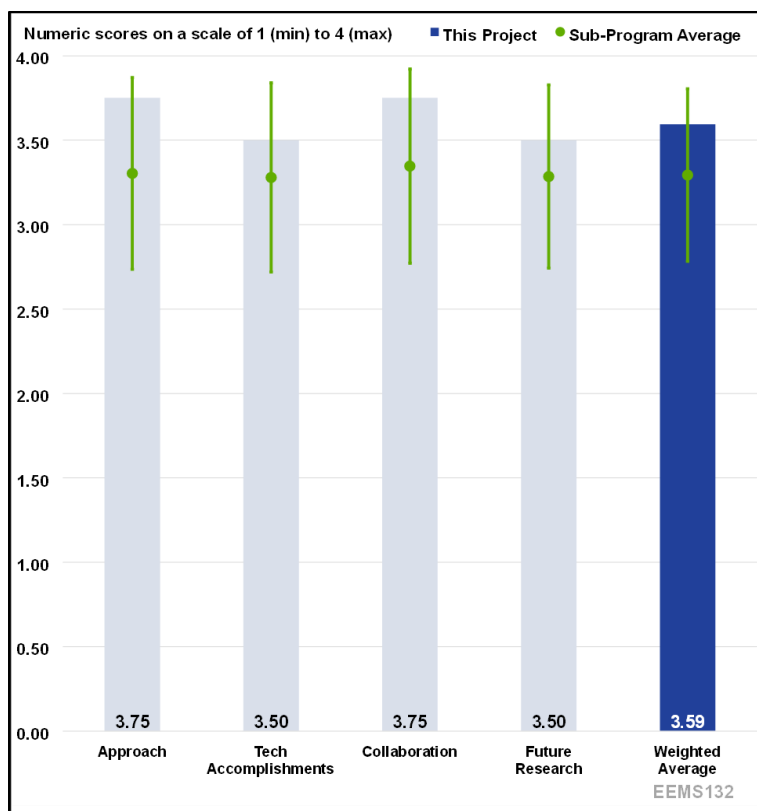


Figure 4-25 - Presentation Number: EEMS132 Presentation
Title: POLARIS – Transportation Systems and Mobility Tools
Core Maintenance Principal Investigator: Joshua Auld,
Argonne National Laboratory

Presentation Number:

EEMS133

Presentation Title:

ITES4: Integrated Transportation and Energy Cross-Sectoral System of Systems at Scale

Principal Investigator:

Joshua Auld, Argonne National Laboratory

Presenter

Joshua Auld, Argonne National Laboratory

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS133_Auld_2025_o.pdf

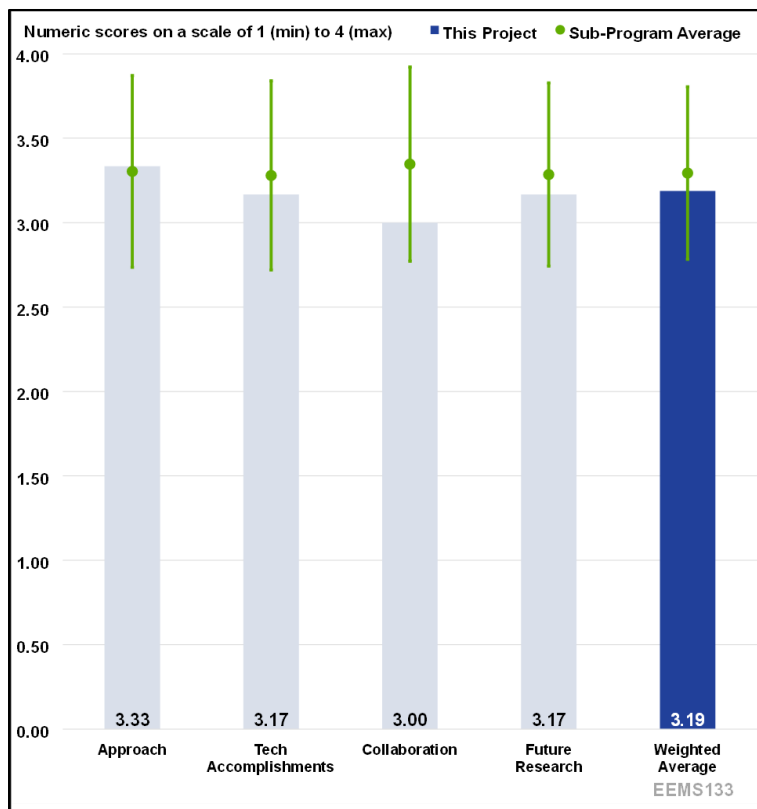


Figure 4-26 - Presentation Number: EEMS133 Presentation Title: ITES4: Integrated Transportation and Energy Cross-Sectoral System of Systems at Scale Principal Investigator: Joshua Auld, Argonne National Laboratory

Presentation Number:

EEMS134

Presentation Title:

Development of Standardized Test Procedures for CV and AV Energy Consumption and Emissions

Principal Investigator:

Michael Duoba, Argonne National Laboratory

Presenter

Michael Duoba, Argonne National Laboratory

Reviewer Sample Size

A total of four reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS134_Duoba_2025_o.pdf

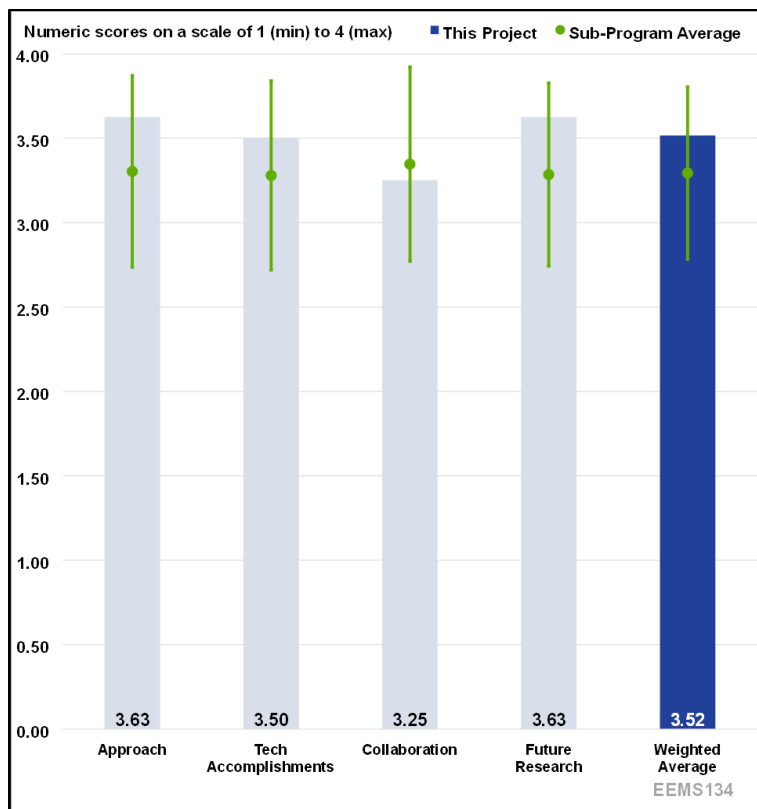


Figure 4-27 - Presentation Number: EEMS134 Presentation Title: Development of Standardized Test Procedures for CV and AV Energy Consumption and Emissions Principal Investigator: Michael Duoba, Argonne National Laboratory

Presentation Number:

EEMS135

Presentation Title:

Energy-Transit Nexus Tools for Bus Fleet Electrification (NEXTBUS)

Principal Investigator:

Jake Holden, National Renewable Energy Laboratory

Presenter

Jake Holden, National Renewable Energy Laboratory

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS135_Holden_2025_o.pdf

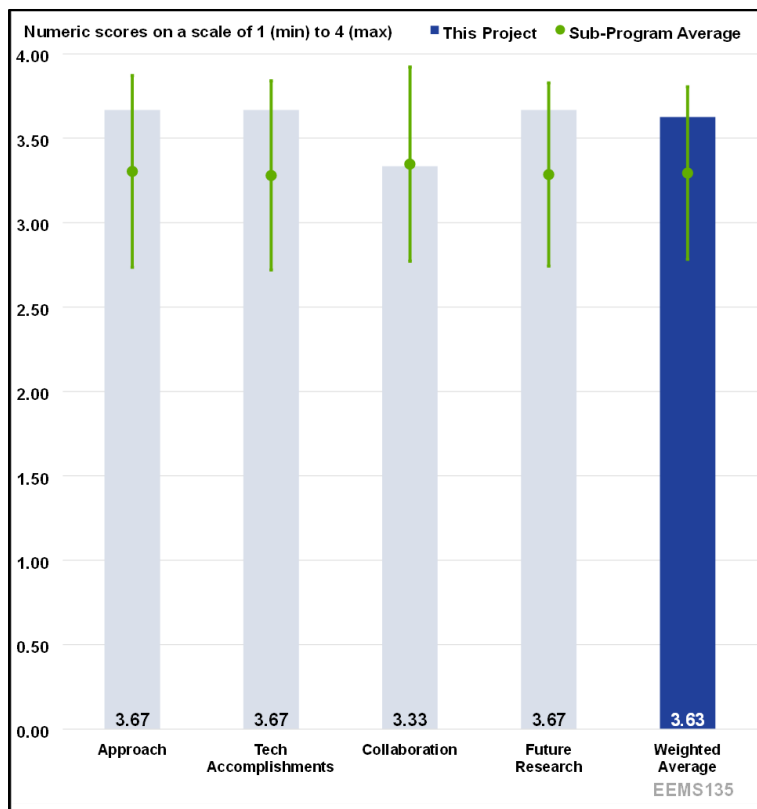


Figure 4-28 - Presentation Number: EEMS135 Presentation Title: Energy-Transit Nexus Tools for Bus Fleet Electrification (NEXTBUS) Principal Investigator: Jake Holden, National Renewable Energy Laboratory

Presentation Number:

EEMS136

Presentation Title:

A Facility Scale Automated Mobility System

Principal Investigator:

Jered Dean, LUCI Mobility

Presenter

Jered Dean, LUCI Mobility

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS136_Dean_2025_o.pdf

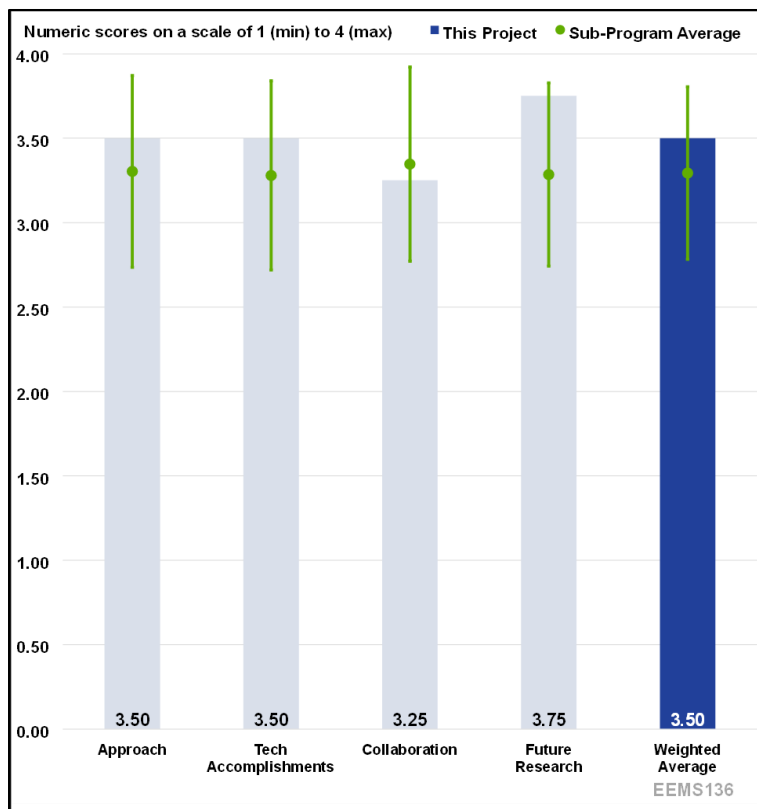


Figure 4-29 - Presentation Number: EEMS136 Presentation Title: A Facility Scale Automated Mobility System Principal Investigator: Jered Dean, LUCI Mobility

Presentation Number:

EEMS137

Presentation Title:

Increasing Mobility Energy Productivity, Operational Efficiency, with Low-Speed Automation for On-Demand Transit or Goods Movement in First-Mile/Last-Mile

Principal Investigator:

Anuja Sonalker, STEER Tech

Presenter

Anuja Sonalker, STEER Tech

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS137_Sonalker_2025_o.pdf

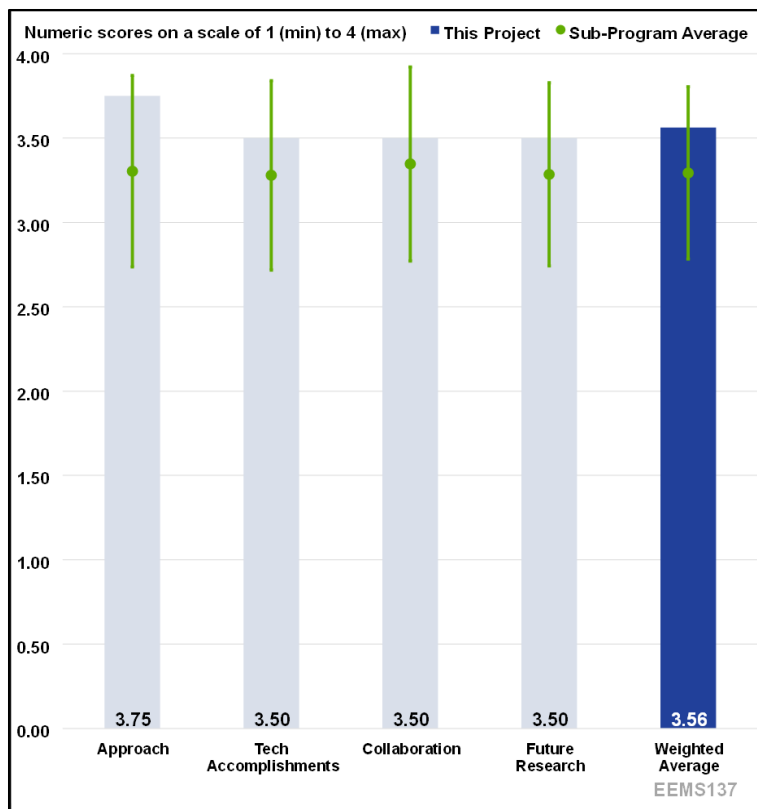


Figure 4-30 - Presentation Number: EEMS137 Presentation Title: Increasing Mobility Energy Productivity, Operational Efficiency, with Low-Speed Automation for On-Demand Transit or Goods Movement in First-Mile/Last-Mile Principal Investigator: Anuja Sonalker, STEER Tech

Presentation Number:

EEMS138

Presentation Title:

Mauka Energy FEVER: Tool Developing Heavy Duty Electric Vehicle Energy Transportation Cost Mapping

Principal Investigator:

David Hamilton, Oregon State University

Presenter

David Hamilton, Oregon State University

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS138_Hamilton_2025_o.pdf

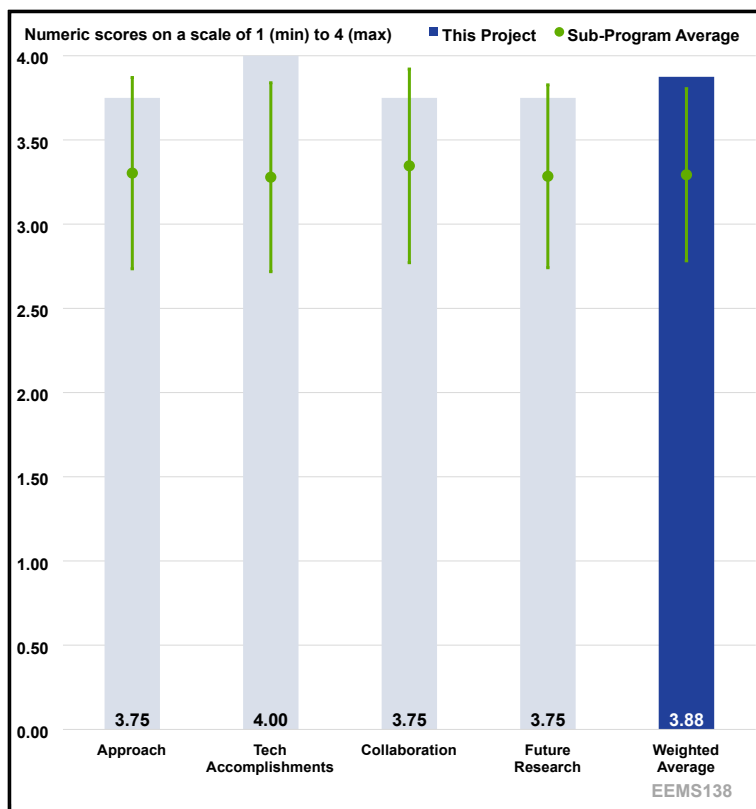


Figure 4-31 - Presentation Number: EEMS138 Presentation Title: Mauka Energy FEVER: Tool Developing Heavy Duty Electric Vehicle Energy Transportation Cost Mapping Principal Investigator: David Hamilton, Oregon State University

Presentation Number:

EEMS139

Presentation Title:

AI-Powered Autonomy-Aware Neighborhood Mobility Zones

Principal Investigator:

Philip Pugliese, Chattanooga Transit

Presenter

Philip Pugliese, Chattanooga Transit

Reviewer Sample Size

A total of four reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 75% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 25% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS139_Pugliese_2025_o.pdf

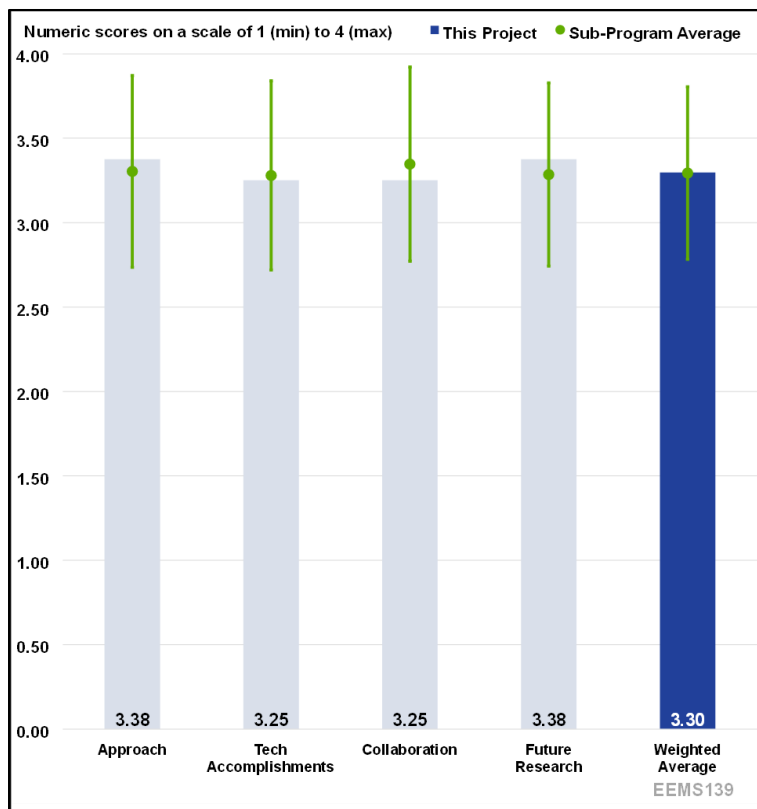


Figure 4-32 - Presentation Number: EEMS139 Presentation Title: AI-Powered Autonomy-Aware Neighborhood Mobility Zones Principal Investigator: Philip Pugliese, Chattanooga Transit

Presentation Number:

EEMS140

Presentation Title:

Multi-Level Connected and Automated Transit System (M-CATS)

Principal Investigator:

Jinhua Zhao, Massachusetts Institute of Technology

Presenter

Awad Abdelhalim, Massachusetts Institute of Technology

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS140_Zhao_2025_o.pdf

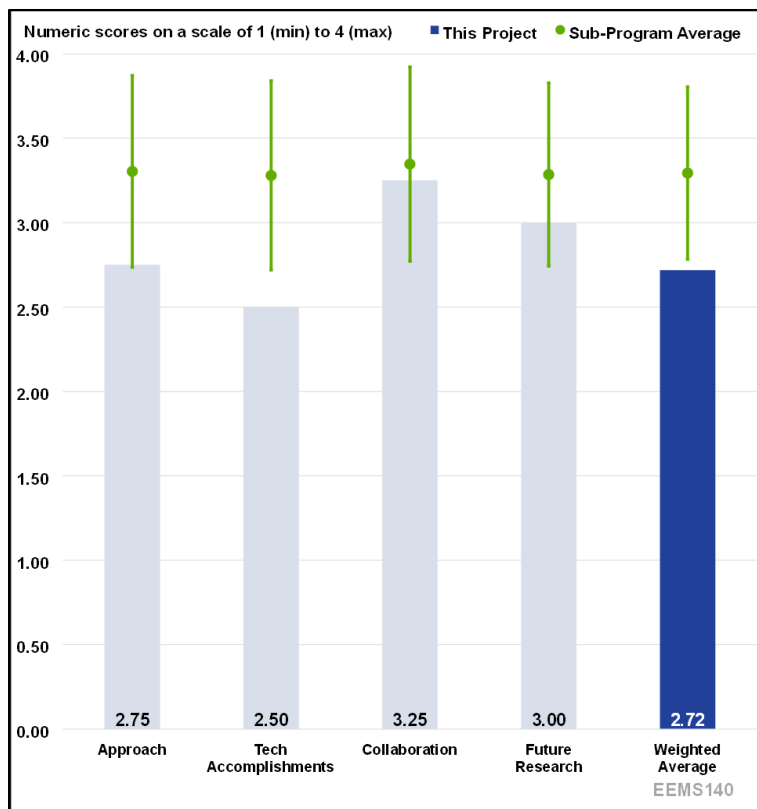


Figure 4-33 - Presentation Number: EEMS140 Presentation Title: Multi-Level Connected and Automated Transit System (M-CATS) Principal Investigator: Jinhua Zhao, Massachusetts Institute of Technology

Presentation Number:

EEMS141

Presentation Title:

Co-E3T: Energy-Efficient and Equitable Transit through User-Centric Hardware and Software Co-Development and Community Co-Design, University of Alabama Transit

Principal Investigator:

Xinwu Qian, Rice University

Presenter

Joshua Bittle/Xinwu Qian, The University of Alabama/Rice University

Reviewer Sample Size

A total of four reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS141_Qian_2025_o.pdf

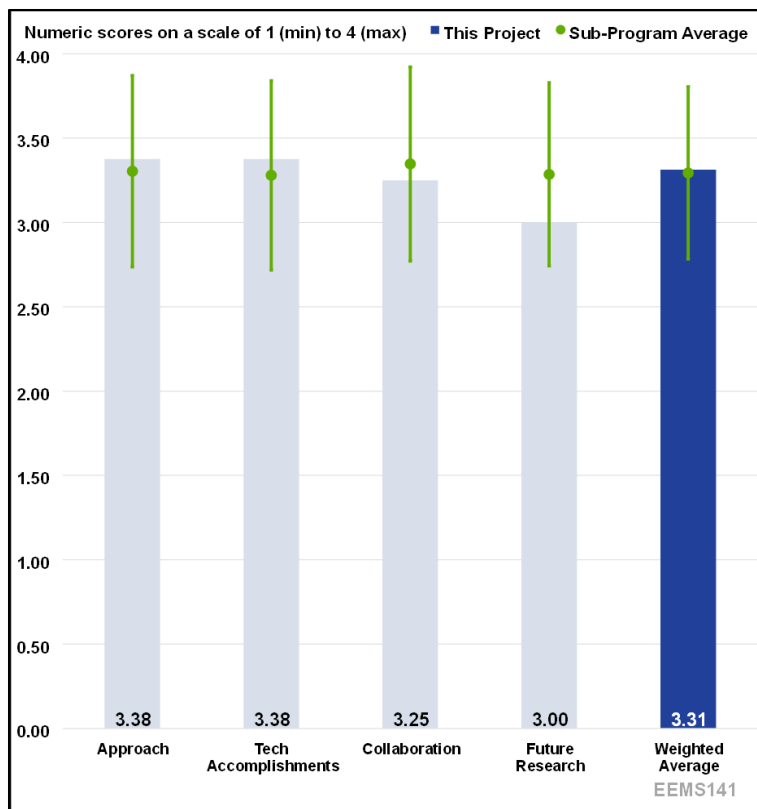


Figure 4-34 - Presentation Number: EEMS141 Presentation Title: Co-E3T: Energy-Efficient and Equitable Transit through User-Centric Hardware and Software Co-Development and Community Co-Design, University of Alabama Transit Principal Investigator: Xinwu Qian, Rice University

Presentation Number:

EEMS142

Presentation Title:

Improving Accessibility and Efficiency of Public Transportation via Optimal Integration with Shared Autonomous Electric Vehicles in Tribal Communities

Principal Investigator:

Dong Zhang, The University of Oklahoma

Presenter

Dong Zhang, The University of Oklahoma

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS142_Zhang_2025_o.p df

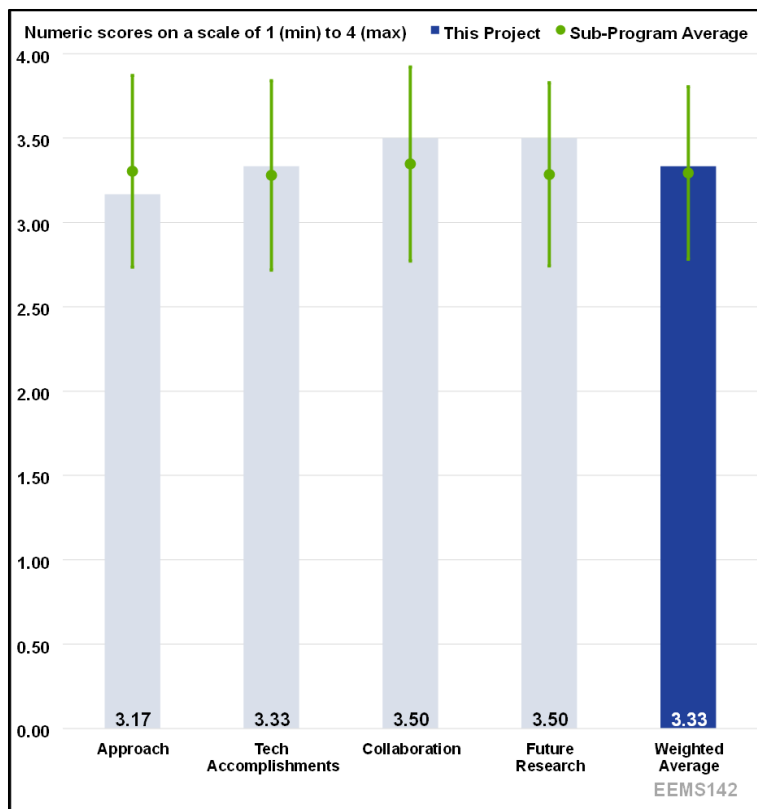


Figure 4-35 - Presentation Number: EEMS142 Presentation
Title: Improving Accessibility and Efficiency of Public Transportation via Optimal Integration with Shared Autonomous Electric Vehicles in Tribal Communities
Principal Investigator: Dong Zhang, The University of Oklahoma

Presentation Number:

EEMS143

Presentation Title:

Energy Efficient Sensing and Computing for AVs

Principal Investigator:

Robert Patton, Oak Ridge National Laboratory

Presenter

Robert Patton, Oak Ridge National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS143_Patton_2025.pdf

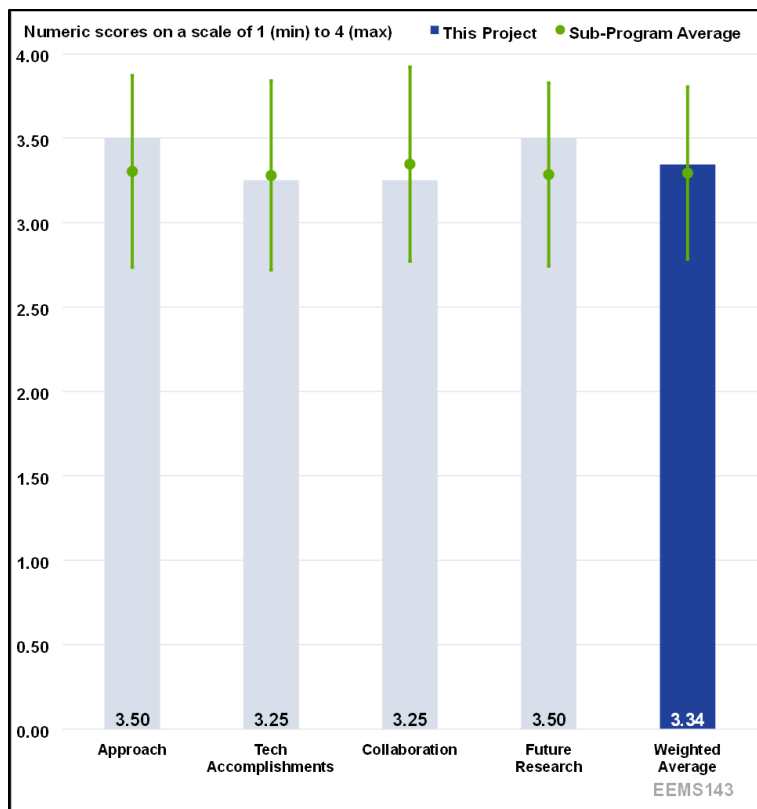


Figure 4-36 - Presentation Number: EEMS143 Presentation Title: Energy Efficient Sensing and Computing for AVs Principal Investigator: Robert Patton, Oak Ridge National Laboratory

Presentation Number:

EEMS144

Presentation Title:

RoadRunner Core Tools

Principal Investigator:

Dominik Karbowski, Argonne National Laboratory

Presenter

Dominik Karbowski, Argonne National Laboratory

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS144_Karbowski_2025_o.pdf

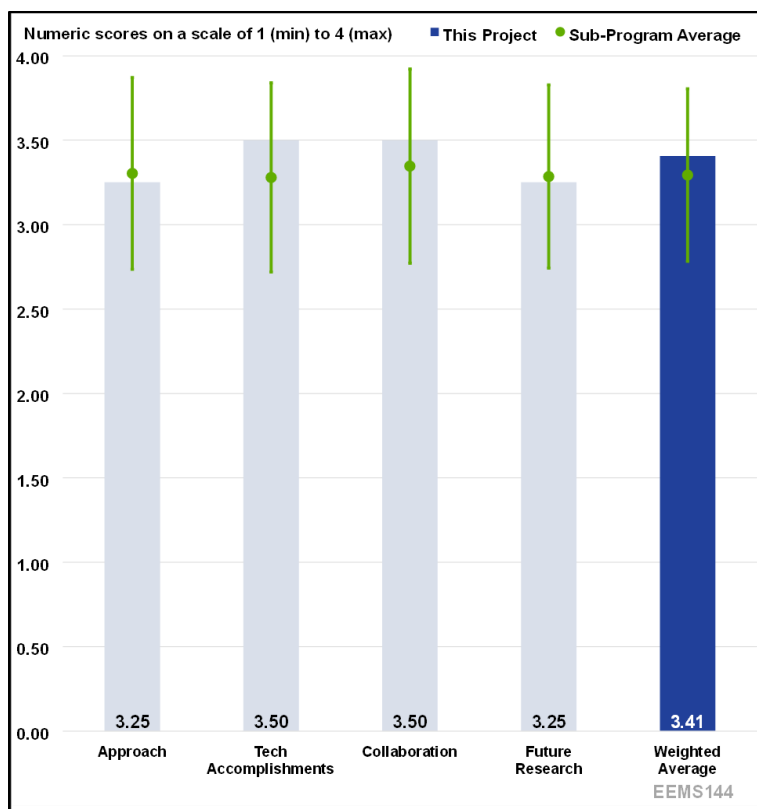


Figure 4-37 - Presentation Number: EEMS144 Presentation Title: RoadRunner Core Tools Principal Investigator: Dominik Karbowski, Argonne National Laboratory

Presentation Number:

EEMS145

Presentation Title:

BEAM CORE Core Tools

Principal Investigator:

Anna Spurlock, Lawrence Berkeley
National Laboratory

Presenter

Anna Spurlock, Lawrence Berkeley
National Laboratory

Reviewer Sample Size

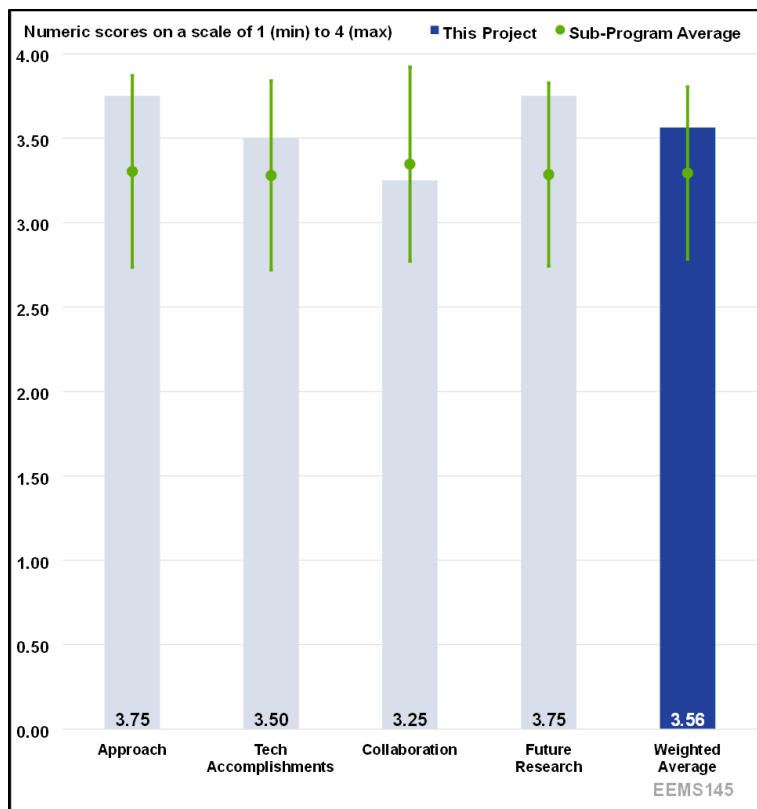
A total of two reviewers evaluated
this project.

Project Relevance and Resources

100% of reviewers felt that the
project was relevant to current DOE
objectives, 0% of reviewers felt that
the project was not relevant, and
0% of reviewers did not indicate an
answer. 100% of reviewers felt that
the resources were sufficient, 0% of
reviewers felt that the resources
were insufficient, 0% of reviewers
felt that the resources were
excessive, and 0% of reviewers did
not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS145_Spurlock_2025_o.pdf



**Figure 4-38 - Presentation Number: EEMS145 Presentation
Title: BEAM CORE Core Tools Principal Investigator: Anna
Spurlock, Lawrence Berkeley National Laboratory**

Presentation Number:

EEMS146

Presentation Title:

Distributed Artificial-intelligence (AI)-based Signal Control (DASiC)

Principal Investigator:

Ross Wang, Oak Ridge National Laboratory

Presenter

Ross Wang, Oak Ridge National Laboratory

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS146_Wang_2025_o.pdf

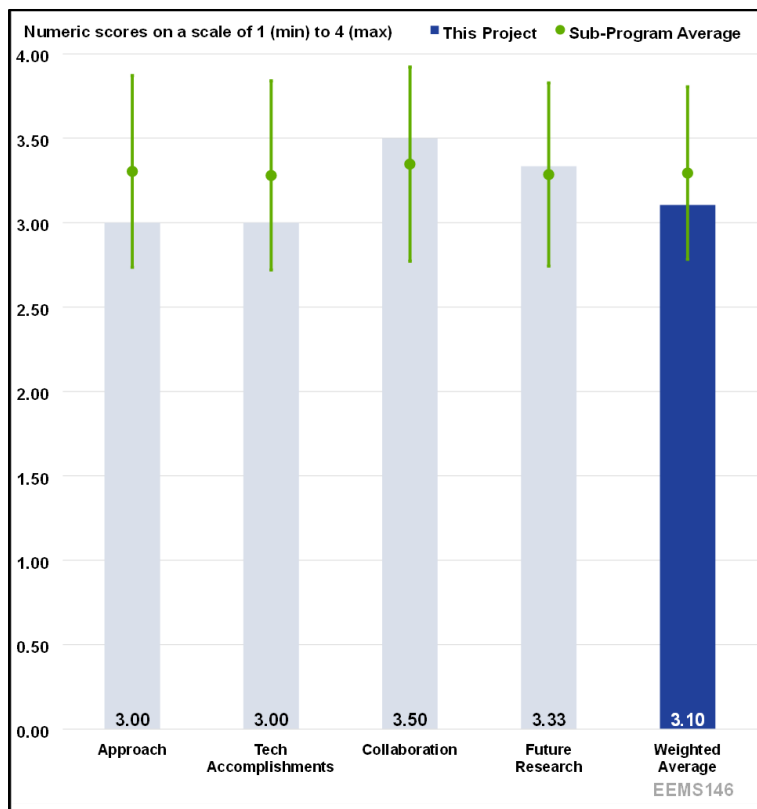


Figure 4-39 - Presentation Number: EEMS146 Presentation Title: Distributed Artificial-intelligence (AI)-based Signal Control (DASiC) Principal Investigator: Ross Wang, Oak Ridge National Laboratory

Presentation Number:

EEMS148

Presentation Title:

Blueprinting Electrified Transit System Implementation

Principal Investigator:

Noah Horesh, Colorado State University

Presenter

Noah Horesh, Colorado State University

Reviewer Sample Size

A total of two reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 50% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 50% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS148_Horesh_2025_p.pdf

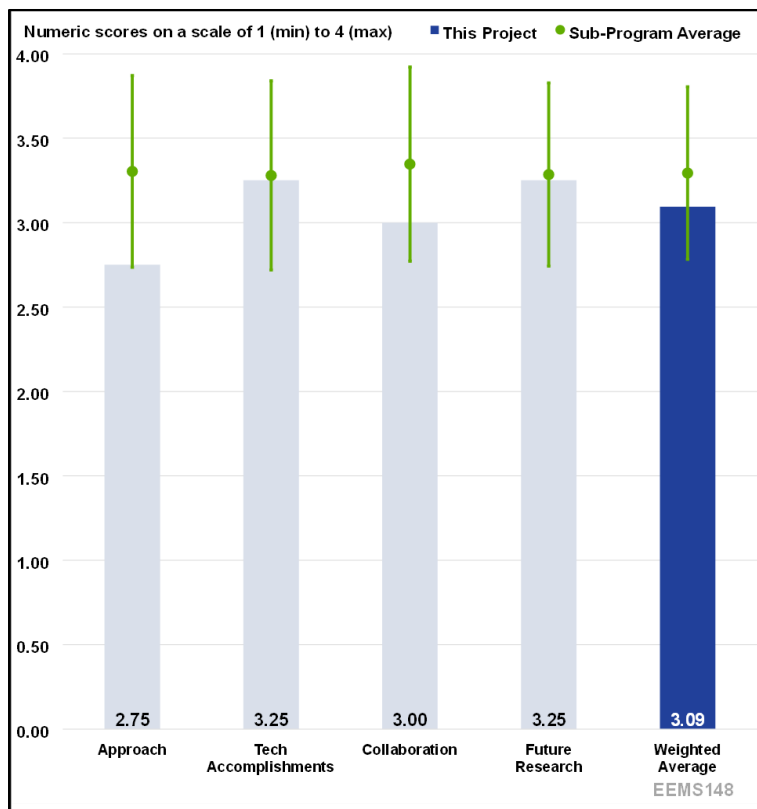


Figure 4-40 - Presentation Number: EEMS148 Presentation
Title: Blueprinting Electrified Transit System Implementation
Principal Investigator: Noah Horesh, Colorado State University

Presentation Number:
EEMS149
Presentation Title:
Next Generation Transit Mobility System
Principal Investigator:
Jason Hanlin, Flow State Analytics

Presenter
Jason Hanlin, Flow State Analytics

Reviewer Sample Size
A total of two reviewers evaluated this project.

Project Relevance and Resources
100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS149_Hanlin_2025_p.pdf

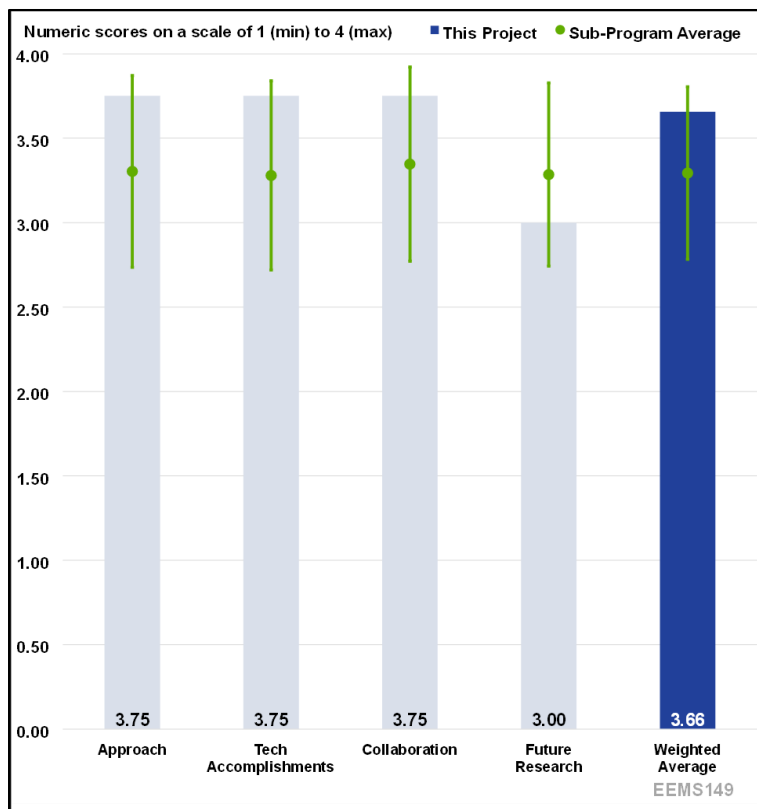


Figure 4-41 - Presentation Number: EEMS149 Presentation
Title: Next Generation Transit Mobility System Principal
Investigator: Jason Hanlin, Flow State Analytics

Presentation Number:

EEMS150

Presentation Title:

Offline Reinforcement Learning-Based Traffic Management to Improve System Wide Energy Efficiency

Principal Investigator:

Lokendra Chauhan, Qen Labs Inc.

Presenter

Lokendra Chauhan, Qen Labs Inc.

Reviewer Sample Size

A total of three reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS150_Chauhan_2025_p.pdf

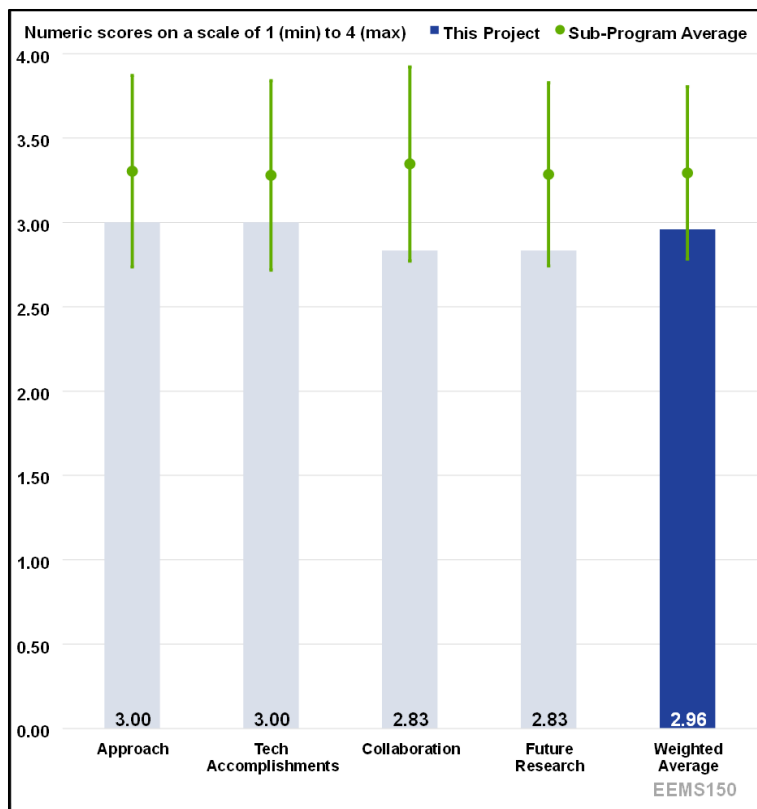


Figure 4-42 - Presentation Number: EEMS150 Presentation
Title: Offline Reinforcement Learning-Based Traffic Management to Improve System Wide Energy Efficiency
Principal Investigator: Lokendra Chauhan, Qen Labs Inc.

Presentation Number:

EEMS151

Presentation Title:

Sustainable Means of Urban Transportation for Cities

Principal Investigator:

Tony Gale, Swift Rails

Presenter

Tony Gale, Swift Rails

Reviewer Sample Size

A total of four reviewers evaluated this project.

Project Relevance and Resources

100% of reviewers felt that the project was relevant to current DOE objectives, 0% of reviewers felt that the project was not relevant, and 0% of reviewers did not indicate an answer. 100% of reviewers felt that the resources were sufficient, 0% of reviewers felt that the resources were insufficient, 0% of reviewers felt that the resources were excessive, and 0% of reviewers did not indicate an answer.

Presentation Link:

https://www1.eere.energy.gov/vehiclesandfuels/downloads/2025_AMR/EEMS151_Gale_2025_p.pdf

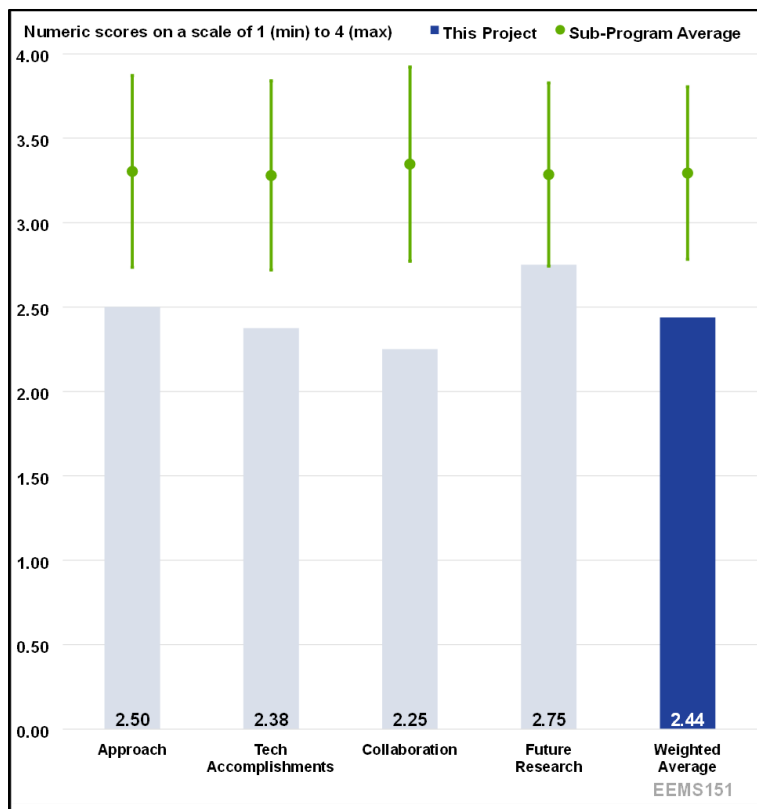


Figure 4-43 - Presentation Number: EEMS151 Presentation Title: Sustainable Means of Urban Transportation for Cities Principal Investigator: Tony Gale, Swift Rails

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