

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Evaluation of Electric Vehicle Technologies and Alternative Fuels for Winter Operations*

OBJECTIVES: Produce a Clear Roads synthesis report that examines the issues transportation agencies may encounter before converting an existing diesel-fueled winter maintenance fleet to one powered by electric vehicle technologies (EVT) or alternative fuels for winter maintenance programs.

PERIOD COVERED: October to December 2022

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee (TAC)

PROJECT MANAGER:
Hafiz Munir / Tom Peters

SP&R PROJECT NO:
MnDOT Contract No.
1047790

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(353)

PRINCIPAL INVESTIGATOR:
Katherine Vigneau, CAFM
Director, Matrix Consulting Group

ANNUAL BUDGET: \$74,599

PROJECT EXPENDITURES TO DATE: \$ 25,900

WORK COMPLETED:

- Task 2 - Initial Interviews & RFI Analysis. Final research report approved by TAC.
- Task 3 - Fuel Management Best Practices Analysis. Final research report approved by TAC.
- Task 4 – Research into historic fuel transitions. Final research report approved by TAC.
- Task 5 - Alternative Fuel Use Practices Survey. Interviews have been completed and report is in draft form.
- Task 7 - EV & AFV OEM Supplier Interviews – All interviews except for one have been completed and report is in draft form.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

During the next quarter, we will complete the following:

- Task 5 - Alternative Fuel Use Practices Survey. Report will be submitted to TAC for approval.
- Task 7 - OEM Interviews. OEM interviews will be completed and report will be submitted to TAC for approval.
- Synthesis Report and PowerPoint will be completed and submitted to TAC for approval (NLT 30 January)

STATUS AND COMPLETION DATE:

Interim deliverable dates were adjusted to accommodate supplier interviews. Completion will be within the original deadline of March 30th, 2023.

Completion date – 28 Feb 2023.