

**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:** January 1 to March 31, 2023

**PARTICIPATING AGENCIES:** Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

**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:** \$2,400

**WORK COMPLETED:**

- Task 1. Project initiation is complete. A Kick-off meeting was held and a letter introducing the project has been sent to future participants.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

During the next quarter, we will complete the following:

- Task 2. Winter Operations Profile
  - Gather data from participating DOTs on their winter roads operations
  - Conduct interviews with participating DOTs regarding their winter roads operations
  - Create a current fleet profile for winter roads operations.
- Task 3. Industry Best Management Practice Assessment.
  - Conduct a best practice assessment of current winter road operations.

**STATUS AND COMPLETION DATE:**

On schedule/on budget. Completion date – 30 Dec 2022.