



Fleet Electrification Study

Organizational, Services &
Performance Monitoring Committee

October 15, 2024

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Project Background

In 2022, GCRTA developed a Zero-Emission Fleet Transition Plan

- Focused only on GCRTA's revenue fleet
 - Accounts for 98% of GCRTA's vehicle emissions
- Based on transitioning vehicles at the end of their useful life

Project Background

As part of the Zero-Emission Fleet Transition Plan, the GCRTA identified the challenges in transitioning to Zero Emission Vehicles

- Technical Viability
- Facility Needs & Considerations
- Workforce Development

Project Scope

The Fleet Electrification Study (“Study”) will assist the GCRTA in taking the next step in evaluating the feasibility in transitioning to Zero Emission Vehicles by providing technical guidance to help navigate the challenges.

Project Scope

- The Study is broken into three phases with multiple tasks within each phase
 - Project schedule is approximately 12 months
- The Study will include fixed route, paratransit and non-revenue vehicles
- The Study is funded by an ODOT Ohio Transit Partnership Program (OTP2) Grant

Project Scope

The Study will provide an evaluation framework for the Electric Bus Pilot

- GCRTA was recently awarded a grant for \$10.6 million for an Electric Bus Pilot
 - Buses to operate out of the Hayden District
 - 10 battery electric buses
 - 3 charging units
- Part of GCRTA's Strategic Plan

Project Scope

Phase One:

- Task 1: Data Gathering
- Task 2: Performance Modeling
- Task 3: Fleet Replacement Schedule
- Task 4: Charging and Deployment Plan

Project Scope

Phase Two:

- Task 5: Facility Upgrade Plan
- Task 6: Operation and Maintenance Plan
- Task 7: Safety, Training and Workforce

Project Scope

Phase Three:

- Task 8: Resiliency Plan
- Task 9: Funding Plan

Procurement Overview

- RFP issued on June 2, 2024
- Accessed on the GCRTA website by thirty-six (36) interested parties
- Proposals were due July 12, 2024
- Four (4) firms proposed
- A 0% DBE goal was assigned

Procurement Overview

Evaluation Panel Members:

- Engineering – Project Support
- Accounting
- Fleet Management
- Programming and Planning
- Procurement

Procurement Overview

Evaluation Criteria:

- Proposed Staff Ability
- Past Performance
- Project Approach
- Pricing and Cost Effectiveness

Procurement Overview

Recommended Firm: Sam Schwartz Consulting, LLC.

- Longtime leader in zero-emission fleet transition planning
- Full-service engineering firm with over 3,200 employees
- Over seventy years of multidisciplinary engineering expertise
 - Zero-emission bus technologies, electrical engineering, facility engineering & workforce training needs
- Works with dozens of transit agencies of varying sizes with various transition mandates and deadlines

Procurement Overview

Firm's Experience:

- Chicago Transit Authority, San Francisco Metropolitan Transportation Commission, IndyGo, New York Metropolitan Transportation Authority, Southeastern Pennsylvania Transportation Authority, Pomona Valley Transportation Authority, Tri-County Metropolitan Transportation District of Oregon, Regional Transportation Commission of Southern Nevada, King County Metro, among many others.

Procurement Overview

Recommendation:

- Staff requests that the Organizational, Services & Performance Monitoring Committee recommend to the Board of Trustees the award for fleet electrification study services to Sam Schwartz Consulting, LLC in a total contract amount not to exceed \$311,924.00.

Questions

Greater Cleveland Regional Transit Authority

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