## Project Application

**Green Fund Mission Statement:** "The NAU Green Fund promotes student participation in and provides funding for projects that reduce NAU's negative impact on the environment and create a culture of sustainability on-campus."

**REQUIREMENTS FOR FUNDING:**

- The project must be implemented on the Flagstaff Mountain Campus.
- The person submitting the project must be a NAU student, faculty, or staff member.
- Projects must provide all necessary documents, letters of support, and authorizations prior to submission.
- The Green Fund distributes funding on a **reimbursement basis**. Project teams should partner with an administrative office to provide upfront funding for the project. Once the project has been successfully completed, the Green Fund will reimburse the administrative partner.
- All project applications should be submitted to greenfund@nau.edu for review.

**DISCLAIMERS:** All applications will go through a comprehensive vetting process, and you may be asked to provide more detailed information. **The Green Fund is not responsible for acquiring the necessary permits, permissions, or approvals for a project, although we are happy to assist with this process if needed.** Additionally, the Green Fund does not provide any ongoing maintenance costs unless otherwise specified by the committee. A sponsoring department must take responsibility for operations and management. The Green Fund Committee only meets during the academic year. All projects submitted outside of the regular academic year will be reviewed at the start of the next academic session.

**REVIEW PROCESS:** Upon project application submission, the Green Fund will begin to review your project within two-three weeks. At this time, the Green Fund will provide comments on the project. **This process can extend for long periods of time depending on the scope of the project**. Incomplete applications will not be reviewed until all components are submitted.

**We highly recommend meeting with a Green Fund Committee member prior to submitting the application. The Green Fund Committee member will assist you with the proposal writing process, if needed.**

## CONTACT INFORMATION

**Contact Information**

Project Leader Name: Bradley Mihalik

Phone: 928-523-6620

NAU Email: bradley.mihalik@nau.edu

Expected Graduation Date (if applicable):

Project Name: NAUPD Fleet EV

**Project Advisor Information**

Project Advisor Name: Martin Yepiz

Phone:

NAU Email: Martin.Yepiz@nau.edu

NAU Department/Unit for Funding Reimbursements: NAU Police Department

## PROJECT OVERVIEW

Please answer the following questions to the best of your ability, for questions that are not applicable, please list N/A.

**Executive Summary**

Please provide a brief overview of your proposal. Please address how this project will support the goals of the Green Fund (student involvement, creating a culture of sustainability, and lessening NAU's impact):

The NAU Police Department, and many other departments, are very understaffed and having difficulty finding candidates for our Police Officer positions. In response to this crisis, we recently created a full time Police Aide position to help relieve the call load on our officers. To provide transportation for this Police Aide, we utilized one of our older patrol vehicles and rebranded it as a civilian police aide vehicle. Shortly after we did this, the vehicle died. We need a replacement vehicle for the Police Aide. The Police Aide not only utilizes the vehicle to respond to calls for service, but to tow and place messaging sign boards, speed trailers and light towers. The Police Aide also places and collects barricades and cones for traffic control during campus events using this vehicle. Soon, we will also be training our Police Aide to act as a form of campus animal control officer. For the reasons stated here, along with the poor weather conditions the winter can bring, we are looking to purchase a pickup truck to be able to effectively handle the aforementioned tasks. With budgets the way they are, we are being forced to use salary savings for the purchase of this vehicle. We initially began pricing a hybrid Ford Maverick. However, our real desire is to begin electrifying our fleet. Therefore, we are seeking to purchase a 100% electric Ford Lightning truck by requesting funding from the Green Fund to be able to cover the difference between a hybrid Maverick and 100% EV Lightning. In addition to the difference between the two vehicles, we will need to install a

charging station in the police compound to be able to charge the vehicle. Ford includes the charging station with the purchase of a 100% electric vehicle. However, we would still need to fund the installation. The acquisition of this Electric Vehicle and installation of a charging station by the NAU Police Department will assist in decarbonizing NAUs vehicle fleet in alignment with the NAU Climate Action Plan. The NAU Police department does have a long-term goal of electrifying a large percentage of its patrol fleet and this purchase would help kick start this effort.

**Project Components**

1. Does your project require space or construction on campus? If so, where? Please review the "Space Committee Document" located on our webpage and follow the steps to begin requesting a location.

   **The project would require some trenching and electrical work between our building and our vehicle compound for the installation of an EV charging station.**

2. Have you obtained all necessary approvals for this project? The Green Fund is not responsible for acquiring the necessary permits, permissions, or approvals for a project, although we are happy to assist with this process if needed. Please attach all letters of support to this application. Letters of support should include confirmation from the sponsoring department that the sponsoring department will cover all upfront expenses and work with the Green Fund Business Manager to acquire reimbursement after project completion.

   **We have approval for this request and the work to be done if granted from the Vice President of Finance/Capital Planning Bjorn Flugstad (documentation attached). If we are granted funding, we will initiate a project request through Planning, Design and Construction to install the EV charging station.**

3. Does the project include any continued maintenance costs? The Green Fund does not provide any ongoing maintenance costs unless specified within the budget and approved by the committee. A sponsoring department must take responsibility for operations and management.

   **All vehicles require ongoing maintenance, and our department will be responsible for those costs. If there are any maintenance issues with the charging station itself, that will also be the responsibility of our department.**

4. Will this project provide funding for student wages? Coordination of wages must be done through the sponsoring department and must be included within the project budget.

   **No.**

5. Please list all additional sources of funding you have pursued, including department, grants, ASNAU graduate, student government, etc.

   **We have not pursued any other funding for this specific project. Funding was identified to purchase the Ford Maverick from our salary savings from unfilled positions at the department. Funding for the full cost of the 100% EV was not identified, nor was funding to install a charging station at PD.**

**Project Specifics**

1. Is there a public outreach plan? How do you plan on communicating your project with the NAU community? Do you require assistance from the Green Fund in your outreach plan?

   **If we are funded, we plan on announcing the funding via social media and utilizing NAU Communications for inclusion in The NAU Review. We should not need any assistance in this area.**

2. Are you working with other groups on or off campus? If so, describe your partnership.

   **We worked with NAU Trades (Electrical) to secure a quote on the trenching / installation of the Ford supplied EV charging station. We also worked with several Ford dealerships in the Phoenix area through state contract to secure quotes on the originally planned Ford Maverick and the Ford Lightning.**

**Project Parameters**

1. What are the environmental costs and benefits associated with your project?

   **Adding an EV to our fleet will increase the amount of electricity used to charge the vehicle. However, the reduction in the use of fossil fuels should more than make up for this slight increase in costs. Another environmental benefit is the reduction of carbon being expelled into our atmosphere.**

2. Is this a one-time expense or will you require future funding for your project?

   **Onetime expense.**

3. How will you measure and monitor the impact of your project after its implementation?

   **We can monitor the savings in fuel purchased/utilized versus the amount our electric bill increases due to charging an EV. The vehicle maintenance on an EV is considerably less often than a fossil fuel powered vehicle and we should realize cost savings there. In addition to cost savings, were excited to reduce the amount of fossil fuels being utilized and carbon emitted into the atmosphere. By replacing a gasoline powered vehicle from**

**our fleet, NAUPD's patrol fleet will increase to 20% full electric. This purchase will allow us the opportunity to field test this vehicle to see if it will successfully operate in patrol/weather conditions necessary to serve as a police officer's patrol vehicle and provide us the necessary data to guide the future of our fleet purchases.**

## Project Budget

Please include a thorough breakdown of all project costs as well as **justification for each line item**, as well as a 5% line item for contingency. Based on the parameters of the project, the committee may increase or decrease this contingency. **Make sure to include all potential taxes or costs associated with each item.**

| Item | Quantity | Price | Justification |
|---|---|---|---|
| Cost difference between authorized vehicle (Ford Maverick) and desired vehicle (Ford Lightning). It should be noted that 3 different state contract dealers submitted quotes. This total is based on the lowest of the 3 from San Tan Ford. | 1 | $16,683.93 | Seeking Green Funding to cover the cost difference between a hybrid model and a 100% EV. Supported by the VP of Finance/Capital Planning and Campus Operations. |
| Parts & labor for the installation of the Ford supplied EV charging station. | 1 | $14,804.20 | The purchase of the above listed vehicle includes a free EV charging station that needs to be installed in order to charge this, and hopefully, future EV purchases. Supported by the VP of Finance/Capital Planning and Campus Operations. |

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|---|---|
| **5% Contingency (5% of total project cost)** | $1,574.53 |
| **Total Project Cost** | $33,062.66 |

## Project Timeline

Please provide a timeline for the significant dates of your project. Please add all relevant information and consider any holidays/breaks and time required to obtain necessary approvals. **Please be as specific as possible.**

| **Timeline** | |
|---|---|
| **Action & Parties Involved** | **Month/Year** |
| Upon approval, project initiation with PD&C for EV charger installation. | Nov. or early Dec. 2024 |
| Upon approval, Purchase order initiation for Lightning EV | Nov. or early Dec. 2024 |
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|---|---|
| **Anticipated Date of Completion** | March of 2025 (charger installation and delivery of vehicle to NAUPD from police equipment upfitter). |