RISE Proposal

Date – 2/24/14
Project title – Electric Campus Shuttle
Amount requested - $36585
Proposal author/s - Kaitlyn Moneymaker
Contact information – kamoneymaker@alaska.edu (972)322-6064
Academic department, year in school, undergraduate or graduate standing -
Transfer Undergraduate Freshman in the Biology Department.
Sustainability theme – Transportation and Energy
Project summary – An Electric Shuttle would help reduce the carbon footprint on the UAF campus. It would provide an ecofriendly way to get groups of people around campus quickly.

Project description
My project is an Electric Shuttle that would be capable to hold 15 people. The goal is to get an electric shuttle to help reduce carbon waste on campus. The shuttle would cost $36,085 including shipping. Some of the expected benefits would include that the shuttle would pay for itself in about 5.5 years, after which it will save the University money. Even though the shuttle could only be run from around May through October. As a community we should always be aware of our carbon footprint and start using ways to make it smaller, and that is why I chose this project. The current shuttles average about $38 in fuel a day and the electric shuttle can be fully charged for $3.24 a day at 20 cents a kilowatt hour.

Project value
An Electric Shuttle would be a benefit to the student body not only for providing another way to get around campus, but by helping make the air cleaner, and by reducing the carbon footprint. Making the environment at UAF much cleaner.

Implementation plan – Using a table format, describe how you are going to get the project done. Specify when funds will be spent and when project completion will occur.

<table>
<thead>
<tr>
<th>Date</th>
<th>What will be done</th>
<th>Responsible person</th>
<th>Funds used</th>
</tr>
</thead>
<tbody>
<tr>
<td>March-April</td>
<td>Order Shuttle</td>
<td></td>
<td>$36,085</td>
</tr>
<tr>
<td>May</td>
<td>Banners designed and made for Wood Center</td>
<td>Kaitlyn M with help</td>
<td>$500</td>
</tr>
</tbody>
</table>

I have talked to the Sun star and they are excited about doing an article about the electric shuttle. I plan to also go on the OOS radio show and approach KUAC about doing an education show. Also KIAK has a UAF show once a month and I could go on that show. Flyer though not very sustainable because of the paper are still great methods for getting the word out. The flyers could say something like “Reduce your carbon footprint by taking the electric shuttle!”

Example outreach plan
<table>
<thead>
<tr>
<th>What outreach</th>
<th>Venue</th>
<th>Date</th>
<th>Who will do it</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article about project</td>
<td>Sun star</td>
<td>Early May</td>
<td>PI</td>
</tr>
<tr>
<td>Flyers</td>
<td>Around campus</td>
<td>May</td>
<td>PI 's</td>
</tr>
<tr>
<td>Radio program</td>
<td>KSUA, KUAC, KIAK</td>
<td>July</td>
<td>PI</td>
</tr>
</tbody>
</table>

**Budget**

<table>
<thead>
<tr>
<th>Equipment or supplies</th>
<th>Quantity and Unit Price</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADA Hard Door Shuttle</td>
<td>1 @ $27,995.00</td>
<td>$27,995.00</td>
</tr>
<tr>
<td>Flip Seat Addition to add 2 seats</td>
<td>1 @ $1,295</td>
<td>$1,295.00</td>
</tr>
<tr>
<td>Doc Fee: Shipping</td>
<td>1 @ 295.00</td>
<td>$295.00</td>
</tr>
<tr>
<td>Flyers printing, AD in the Sunstar and Banner in the WoodCenter</td>
<td>$6500</td>
<td>$6500</td>
</tr>
</tbody>
</table>

**Total** | $36585

**Budget justification**

We have been given a 5% discount because the OOS attended the AASHE show.

**Qualification & Experience**

Though I do not have any direct experience with electric vehicles. My interest in making the world a better place to live in along with being well read in new ways to reduce carbon footprints I feel make me qualified for this project.

**Technical advisers and collaborators**

**Attachments:** Attached is the Spec sheet of the shuttle provided by the company. The email with the quote, and my project advisor’s letter.
On Thu, Dec 12, 2013 at 8:08 AM, Brett Jackrel-Moto Electric Vehicles wrote:
Michelle,

Please see the revised quote with shipping included:

ADA Hard Door Shuttle: $27,995.00
Flip Seat Addition to add 2 seats: $1,295.00
Doc Fee: $295.00
Shipping: $6,500.00
no tax- out of state

TOTAL: $36,085.00

Please let me know what we can do to earn your business.

Thanks again!

Sarah Mousseau

to me

Kaitlyn,
Facilities Services will house and use the electric shuttle.
thanks
Sarah
Moto Electric Vehicles

Electro Transit Buddy 15 Passenger Hard Door ADA Shuttle
Product Code: ETB-15PadaHD
Full Nationwide Warranty - Nationwide Delivery - Flexible Lease/Loan Programs

Electro Transit Buddy 15 Passenger Hard Door ADA Shuttle

Technical Specifications

- Passengers: 11 + 1 WC Occupant
- Speed: Up to 25 MPH
- Range: 50-60 miles (full capacity)
- Climb: 20% grade (full capacity)
- Electric Motor: 7 KW
- Batteries: Trojan T105 Plus
- Controller: Curtis
- Min. Turning Radius: 18 ft
- Overall Dimensions: 16.7 ft L x 4.9 ft W x 6.75 ft H
- Max Load: 2,500 lbs.
- Gross Vehicle Weight: 3,500 lbs.
- Ground Clearance: 7"
- Body: Steel Framework + Fiberglass
- Doors: Aluminum
- Roof: Fiberglass
- Windshield: AS1 DOT Approved

ALL of Our Vehicles Contain the Following Standard Features

- Head, Tail, and Brake Lights
- Side and Rear View Mirrors
- Windshield Wiper
- Parking Brake
- Charging Unit
- Turn Signals
- Horn
- Toughened Glass Windshield
- 10 Inch Tires
- Curtis Controller
- Reverse Alarm
- Floor: Non-slip plastic
- Cup Holders
- Dashboard
- Forward/Reverse Switch
- Headlight Indicators
- Ignition Key
- Voltmeter
- Emergency Cut-off Switch
- Rack & Pinion Steering
- Rear & Front Pneumatic Braking System
- Independent Suspension
- Rear Steel Plate Suspension
- Rear Wheel Drive
- Front/Rear Plate with Springs
- Mechanical Brakes on Rear Wheel
- Wheelchair Ramp
- Wheelchair Ramp Lighting
- Wheelchair Tie Downs
- Ambulatory Barriers
- Built In Tie Down Storage Box

ACCESSORIES PAGE

© Copyright 2011 Moto Electric Vehicles