PROJECT TITLE
Green Bikes Program

DATE
06 June 2012

AMOUNT REQUESTED
$5280, $8960, $12640

PROPOSAL AUTHOR
Michael Stanfill; Senior, Mechanical Engineering

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AUTHOR'S PHONE #
260.255.6538

GROUP/DEPARTMENT
Office of Sustainability.

SUSTAINABILITY THEMES
Energy, Transportation, Education and Curriculum, Social Sustainability.

PROJECT DISCRPTION
The primary goal of this proposal is to add more bikes and accompanying locks to the fleet. We have looked at advertising a request for used bikes, but the risk of this is creating a junk pile, similar to what we had at the bike barn on the ag. farm. We have a level of acceptability with used bikes because it takes significant time and money to make one safe and operational. Other items needing funded is a steady supply of replacement bike parts, supplies and accessories for the program. Total cost will be

PROJECT VALUE
Having the UAF Green Bikes program on campus will benefit every student involved. With the check out of each bike, there will be lowered fossil fuel emissions, less vehicular congestion on roads and in parking lots, and a healthier student body. From just this summer, we expect to keep 7 tons of carbon dioxide from entering the atmosphere. Increasing the bike fleet size will increase this number.

Facilitating bicycle use over cars throughout the summer will lower the amount of carbon emissions by the University as a whole, which is one of the goals of the Sustainability Department. This will in turn alleviate parking congestion and will reduce the need to build new lots. As more and more students use bikes, we concurrently facilitate a healthier lifestyle with more physical activity.

IMPLANTATION PLAN
If funding is received for new bikes, it will be three to four weeks to get the bikes to students. This process involves barging bikes from Washington, receiving them at Beaver, transferring them to UAF and building them, which itself costs about 45 minutes to an hour per bike. If the RISE board decides to add anything over 10 bikes, a staffing issue may arise this
fall. The bike program is getting larger and more paid time will be required to keep up. This isn't such a large issue during the summer (and we will be okay until the end of this summer), but during the academic semesters is when problems of will come up. This is something that will be taken up with Michele Hebert.

<table>
<thead>
<tr>
<th>Date</th>
<th>Task</th>
<th>Responsible Person</th>
<th>Funds Used</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 25</td>
<td>Order Bikes</td>
<td>PI</td>
<td>$3500 to $10500</td>
</tr>
<tr>
<td>June 25</td>
<td>Order Helmets, Locks</td>
<td>PI</td>
<td>$1380 to $1740</td>
</tr>
<tr>
<td>July 9-13</td>
<td>Build Bikes</td>
<td>PI</td>
<td>$0</td>
</tr>
<tr>
<td>June 14/15</td>
<td>Release Bikes</td>
<td>PI</td>
<td>$0</td>
</tr>
<tr>
<td>Until next grant</td>
<td>Purchase Supplies</td>
<td>PI</td>
<td>$400</td>
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</tbody>
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OUTREACH
Outreach to students involves a growing email list as well as fliers placed around campus. We have access to the Sustainability Department's Facebook page as well as a webpage of our own. Often glass case advertising accompanies Outdoor Adventures' own.

BUDGET DETAIL

<table>
<thead>
<tr>
<th>Supplies</th>
<th>Quantity and Unit Price</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bikes</td>
<td>10, 20, or 30. $350 ea.</td>
<td>$3500, $7000, $10500</td>
</tr>
<tr>
<td>Consumable Replacements</td>
<td></td>
<td>$200</td>
</tr>
<tr>
<td>Locks</td>
<td>10, 20, or 30. $15-$25 ea.</td>
<td>$180, $360, $540</td>
</tr>
<tr>
<td>Consumables and Tools</td>
<td></td>
<td>$200</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>40 Helmet. $30 ea.</td>
<td>$1200</td>
</tr>
</tbody>
</table>

**Bikes: $3500, $7000, $10500**
New bikes are the Kona Lanai model through Beaver Sports. Through wholesale pricing plus shipping, we can purchase the bikes at $350 a piece. The prices listed are for ten, twenty and thirty bikes, respectively.

**Consumable Replacements: $200**
This includes tires, tubes, brake pads, chains and other drive train components.

**Locks: $180, $360, $540**
With the tiered levels of funding for the bikes, we have different quantities of locks. Cable locks cost $15 a piece and U Locks are $25 a piece. Prices listed are for 10, 20 and 30 locks, respectively.

**Consumables and tools: $200**
This includes grease, lubricants, oils, cleaners, wraps, cleaners and other consumable items involved in maintaining a bike fleet as well as providing products for the student-accessible bike shop.
BUDGET JUSTIFICATION

Bikes:
There is a demand for more bikes, confirmed by having a wait list after each release coupled with my and others' discussions with students. We currently have been tailoring advertising for the amount of bikes we have, so at most we add five to ten people to the wait list. In the past, less sensitive advertising has pushed the amount of waiting people to 20 (i.e. during the Earth Day release). Having the tiered bike funding levels will allow the board to choose what they deem appropriate for supplying. If 30 are purchased, they will all be used in the non-winter riding seasons. During winter we have 30 bikes available; if we see a demand for more, more funding will be applied for in the fall to equip more of our bikes.

Consumables and tools.
Includes operation of the program for the next several months. Costs include purchasing of consumables such as grease and tools, running checkout events, and unforeseen costs of operating the fleet. Over the last year, most of the 'unforeseen costs' have included repair hardware for tables, light bulbs, batteries and extension cords, brooms and tape.

Miscellaneous:
When students check out a bicycle, they are required to either have their own helmet with them or to purchase one from us. 40 helmets would supply us for the next several releases and are re-sold to students.

QUALIFICATIONS AND EXPERIENCE
The experience of the author is inclusive of working with the original authors of the first Green Bikes Proposal in fall of 2010 to start up and continue the operation the Green Bikes program for over a year now. I was hired under the original proposal as part of a team of employees designated to oversee operations and maintain the fleet of bikes. Through my observations, and working directly with the students and employees involved in this program, I have identified the aforementioned items as being able to expand the UAF Green Bikes program and effectively enhance its sustainability goals.

TECHNICAL ADVISORS AND COLLABORATORS
Mark Oldmixon
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