PROJECT TITLE
Expanding the Green Bikes Program

AMOUNT REQUESTED
$20,338

PROPOSAL AUTHOR
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GROUP/DEPARTMENT
Office of Sustainability

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

PROPOSAL SUMMARY
Since the original UAF Green Bikes SIREN Proposal submitted by Michaela Swanson, Ben Abbot and Lorien Nettleton, the program has been growing fast. The main goal of the program is to shift UAF's energy usage towards renewable resources by making bicycles available to check out to students throughout the year. This new proposal will allow expanded outreach and development to further this goal. Currently, we have 26 bikes in the fleet, available to check out to students. The Green Bikes program has been so popular that demand has far outpaced supply. During our second checkout event, which was held on the 27th of May, we handed out all 26 bikes in just over an hour with over 20 people on the wait-list. The goal of this proposal is to purchase more bikes, create a storage space for them, winterize a portion of the fleet, purchase permanent outdoor work stands, buy a rack to place outside the Lola Tilly Commons and purchase helmets, kickstands, luggage racks and locks to accompany the new bikes. As fuel prices increase, more and more students will be interested in cycling to campus and work. Meeting these growing demands will give these new commuters a practicable option to bike throughout the entire year.

TECHNICAL ADVISORS AND COLLABORATORS
Mark Oldmixon
Coordinator of Outdoor Adventures, mtoldmixon@alaska.edu, 907-474-6027

BUDGET DETAIL

Equipment:
New bikes: $5200
20 Kona Lanai bicycles @ $260 each
(http://www.konaworld.com/bike.cfm?content=lanai)
Storage: $5000
1 Forty foot shipping container @ $5000 each
(Local shipping company)

Supplies:
Outdoor Self-Service Bike Repair Stands: $3500
2 Dero Fixit Bike Repair Stands @ $1750 each
(http://www.dero.com/products/fixit/)
which is a local

the brakes with thin or no gloves while keeping their hands warm. They are sold by Dogwood Designs, large mittens that are attached to the bike that surround the handlebar, and allow a rider to safely access the brakes with thin or no gloves while keeping their hands warm. This winterization package will include pogies, studded tires, and front and rear lights. Pogies are large mittens that are attached to the bike that surround the handlebar, and allow a rider to safely access the brakes with thin or no gloves while keeping their hands warm. They are sold by Dogwood Designs, which is a locally owned and operated business. In order to deal with slippery roads and paths, fifteen

Bike Parking Rack: $923
  1 Park-a-Bike 18-bike Grid Rack @ $923 each
  (http://www.parkabike.com/bike-racks-traditional-style-1600-grid-rack-series.html)

Winterization package for 15 bikes: $4350
  15 Dogwood Designs Pogies @ $64 each
  30 Nokian Extreme 294 Studded tires @ $65 each
  (http://www.seattlebikesupply.com/catalog/tires/studded)
  15 Front lights @ $15 each
  30 Rear lights @ $15 each

Miscellaneous: $1356
  20 Cable locks @ $13 each
  10 U-Locks @ $27 each
  20 Double-eye cables @ $8 each
  15 Kickstands @ $5 each
  20 Helmets @ $30 each

BUDGET JUSTIFICATION

New Bikes:
As word gets around about the Green Bikes program, more and more students are interested in riding. In order to meet this new demand, additional bicycles are necessary. Not only will this help alleviate the competitiveness involved with the current fleet, this will expand the use of a renewable resource for transportation as well as reduce traffic congestion. The same model purchased in the initial start-up is sufficient to meet the needs of the program. Beaver Sports is willing to again help make the bikes available for wholesale pricing (plus shipping) from the manufacturer.

Storage:
As we expand, new space needs to be found to store bicycles close to Outdoor Adventures. It is proposed that $5000 be allotted to purchase either a twenty foot or forty foot long storage container, similar to the ones seen on container ships. This is available for purchase from local shipping and transportation companies (Summit Logistics, Sourdough Express, Lynden Transport).

Outdoor Self-Service Bike Repair Stands:
The current mechanic office hours are limited to three hours a day, five days a week. Dero produces a self-standing device, with tools permanently tethered, which allows students to work on their own bikes at all times of the day. To maximize use, two stands would be purchased with one being mounted in the West Ridge area and one outside of the Wood Center.

Bike Parking Rack
Since bicycle use is increasing, the bicycle parking facilities around campus are becoming more congested. It is proposed that an eighteen-bike parking rack be purchased and placed outside of the Lola Tilly Commons so students aren't forced to lock their bikes to the railing around the entrance.

Winterization Package for fifteen bikes:
The original proposal submitted to initiate the program emphasized the idea of making UAF Green Bikes available year-round. Currently, there is no plan implemented to make using these bicycles in the winter safe. This winterization package will include pogies, studded tires, and front and rear lights. Pogies are large mittens that are attached to the bike that surround the handlebar, and allow a rider to safely access the brakes with thin or no gloves while keeping their hands warm. They are sold by Dogwood Designs, which is a locally owned and operated business. In order to deal with slippery roads and paths, fifteen
bikes will be outfitted with Nokian studded tires. To make winter commuters more visible to vehicles, each of the bikes will be outfitted with one headlight and two taillights. The winterization package is included in this summer proposal because the prices for winter gear may rise as the season gets closer.

Miscellaneous:
A lock accompanies every Green Bike checked out by students. The additional cable and u-locks will be necessary to insure we have an ample supply for the new bikes proposed in this document as well as donated bikes. With each checkout event, and as students are returning bikes, we are having them fill out a pre- and post-checkout survey. There has been a lot of suggestions that we add kickstands to the fleet, however not everyone wants one. Fifteen kickstands will allow those who are interested in having one to do so on their Green Bike. Twenty helmets would supply us for the upcoming mid-August release for the Fall Semester for students who need to purchase a one.

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.
Facilitating bicycle use over cars 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
Twenty bicycles would be acquired from Beaver Sports after being ordered from the manufacturer. While they are being shipped, the storage container would be delivered and prepped for the new bicycles. The new bicycles would be built and prepared be to checked out to students as soon as possible, along with the new locks and helmets. The parking rack will be dropped off outside the Lola Tilly Commons and immediately made available to lock bikes to. The winterization packages will be stored until winter arrives, waiting to be transferred fifteen bicycles around the month of October.

QUALIFICATIONS AND EXPERIENCE
The experience of the author is inclusive of working with the original authors of the Green Bikes Proposal to start up and continue the operation the Green Bikes program over the last three months. I was hired under the original proposal as the employee 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 to further enhance its sustainability goals.