

# ***Clean, Green Recycling at BGSU***

**Date:** 11/18/15

**Amount Requested:** \$16,500

**Author of Proposal:** Joshua Chamberland

**Primary Contact Information:**

Joshua Chamberland

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## **Identify the purpose of your proposal. Provide a detailed description of its activities and specific objectives:**

In 1994, Bowling Green State University officially launched its very own solid-waste recycling program, becoming a leader and innovator in the field. Over the years however, conditions have changed, programs have been modified, and we now have single- stream/ co-mingled recycling provided by Waste Management Inc (WMI). This contracted service does have its limits; WMI only picks up large dumpsters full of recycling and does not service each individual building. This creates a gap between the every-day recycling bins used by the campus community and the large recycling “roll-off” containers that WMI picks up for processing. Campus Services, located within Campus Operations, is responsible for emptying recycling stations within individual buildings and transporting the contents to a single location on BGSU’s main campus for pickup.

The current trucks used to transport recyclables at BGSU are horribly outdated (1999), inefficient, and dirty. Campus Services is currently considering the purchase of a new box truck as a replacement for one of the old vehicles. This proposal is to ensure that the new vehicle purchased is much more fuel efficient and reduces university carbon emissions/ other air pollutants by funding the cost difference between a standard truck and hybrid truck. The proposal also requests funding to cover the costs of educational “wrapping” for the vehicle.



**Figure 1. Current recycling truck**

## **What other offices may possibly be impacted by your proposal?:**

- Campus Services; Recycling & Solid Waste
  - Andrea Depinet; Director of Campus Services
  - Scott Euler; Manager of Grounds, Recycling, & Solid Waste

## **How will your project be managed and completed:**

Campus Services is currently considering the purchase of a replacement truck because the current vehicle is rapidly declining. A Request for Proposal (RFP) has already been filed and completed through Purchasing and the lowest bid for a Hybrid Box Truck has been identified. Should this proposal be approved, Campus Services will be notified via award letter, appropriate funds will be transferred, and the vehicle will be purchased/ delivered. While delivery is pending, the Office of Campus Sustainability will reach out to Marketing & Communications to design educational "wrapping" to be installed on the truck in order to educate the campus community on low-emission vehicles. Upon delivery of the new truck, educational wrapping will be installed, the obsolete unit will be decommissioned and sold on govdeals.com, ultimately removing its carbon footprint from the university.

## **What's the "green" idea:**

The purchase of a hybrid-diesel truck will make our university more sustainable in a number of ways:

- Current recycling trucks do not start reliably. Operating lift-gates and lights require the engine running. Leads to *almost constant idling throughout the workday*.
  - During winter months, it is not uncommon to see these trucks idle entire lunch break
- This hybrid model sees an increase of approximately 20-30% fuel efficiency over traditional model (Will most likely see more due to current idling practices). Ultimately reducing carbon emissions & other toxic air pollutants such as: particulates, carbon monoxide, etc. Assisting with implementation of Climate Action Plan.
- Employee & Community Education
  - University employees who utilize vehicle will experience transition to clean vehicle technology, clearing potential misconceptions
  - Educational wrapping will convey climate-leadership by university's operations to all students/staff on campus who see.

## How much will it cost:

This proposal requests the Student Green Initiatives Fund cover the cost between a traditional Hino 195 and a Hino 195h as well as pledge funds for educational “wrapping” of the vehicle upon its delivery.

- \$14,000 (Difference between traditional truck & hybrid model); See attached quotes
  - Hybrid Cost: \$71,991
  - Traditional Cost: \$57,991
- Vehicle Wrapping (including installation)
  - Up to \$2,500 \*\*Number was estimated by calling “Budget Wraps”, the university’s preferred vendor for vehicle wrapping and describing project; Aimed high to ensure not to go over budget\*\*
- **Total: \$16,500**



Figure 2: Hino 195h (proposed purchase)

## Can anyone else help pay for it:

Campus Operations will be contributing \$57,991 and an additional \$9,100 for customization; bringing the total cost to \$67,091

## How can we keep the project going:

Ensure staff utilizing vehicle are properly trained before use. Clear expectation of respect for vehicle conveyed to employees from supervisors; periodic inspection to ensure it is being maintained. No funds needed for future as Campus Operations and the extended warranty will cover maintenance costs.

## **Who will benefit from your proposal:**

- Campus Students, Faculty, Staff
  - Increased air quality on campus; less pollutants around loading docks, roads, and within campus
  - Education on the availability/ feasibility of low-emissions trucks
- Campus Services
  - Much more efficient vehicle, should save on fuel/ maintenance costs
- University as a whole
  - Decreased carbon footprint; assisting with Climate Action Plan
  - Fuel/ financial savings

## **How will you measure your project's success:**

The Committee will ask Campus Services to track fuel consumption for this vehicle and their other recycling truck (2 total) over the first 6 months of use. Office of Campus Sustainability will then compare gallons of fuel used between new truck & old truck to determine relative fuel savings. Will also be able to track carbon emissions utilizing a carbon calculator. If the carbon emissions/ fuel use from the Hybrid truck are lower than the current truck, then the project will be deemed a success.

# Proposal



Date: 05/18/2015

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## Flag City Truck & Equipment

151 Stanford Parkway  
Findlay, OH 45840  
USA

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MAIN 419 423 3131  
FAX 419 424 5140  
TOLL FREE 800 472 9597

[flagcitytruck.com](http://flagcitytruck.com)

**Bowling Green State University**  
**Hino 195 vs Hino 195 Hybrid**

**Truck Purchase:**

2016 Hino 195 Hybrid w/ 14' Box

**Truck Cost:**

\$71,991

**Truck Purchase:**

2016 Hino 195 w/ 14' Box

**Truck Cost:**

\$57,991

Hybrid model is actually \$14,000 more. You will not gain this back with added fuel economy with the miles you run. Typically fuel savings in comparison is around 20-30% better compared to non-hybrid, however over the long haul it will not save you the money. If the University wants to do the "Green" truck then I would still go that way but it will not save any money in the long term.

**\*\*5 Year / 200,000 Mile Warranty\*\***

*Price does not include state or local taxes*

Sincerely,

Brad Comstock  
Fleet Sales  
Cell: 419.722.0047  
Office: 419.423.3131  
[www.flagcitytruck.com](http://www.flagcitytruck.com)













**KALIDA  
TRUCK  
EQUIPMENT, INC.**

Kalida Truck Equipment, Inc.  
17911 St. Rt. 224 West  
Kalida, OH 45853  
Phone: 419-532-3919  
Fax: 419-532-2038  
[www.kalidatruck.com](http://www.kalidatruck.com)

**QUOTATION**

**Customer:** FLAG CITY TRUCK & EQUIPMENT  
**Contact:** BRAD COMSTOCK - bradcomstock@flagcitymack.com  
**Address:** 151 STANFORD PARKWAY  
FINDLAY OH 45840

**Quote Number:** JM0000693  
**Quote Date:** 9/4/2015  
**Quote valid until:** 10/19/2015

**Phone:** 800-472-9597  
**Fax:** 419-424-5140

**Salesperson:** jmagrum

QUANTITY	DESCRIPTION	UNIT PRICE	AMOUNT
1	SUPREME 14' SIGNATURE ALUMINUM VAN BODY SVA14085096 DIMENSIONS: 14' INTERIOR LENGTH 85" INTERIOR HEIGHT 96" EXTERIOR WIDTH FLOOR: FLAT FLOOR 3" I-BEAM X-MEMBER ON 12" CENTERS 4" I-BEAM LONGSILLS PRE-COATED UNDERSTRUCTURE NO FORKLIFT REINFORCEMENT 2 x 6 DENSE PINE SHIPLAPPED LINING: 3/8" PLYWOOD LINING FULL SIDES SCUFF: NO SCUFF CARGO CONTROL NO CARGO CONTROL INTERIOR LIGHTS: 1 DOME LIGHT W/ REAR SWITCH HOT WIRED FRONT END: NO INTERIOR FRONT WIRE COVERS 1/2" CORE FRP FRONT WALL COMPOSITE CORNER WIND DEFLECTOR ALUM. EXTRUDED FRONT CORNERS WIND DEFL RAD .063 MILL ALUM SIDEWALLS: .040 PRE-PAINTED WHITE N0006HN SIDE WALL Z-POSTS ON 16" CENTERS ROOF: .032 ALUM ROOF SKIN ANTI SNAG ROOF BOWS ON 24" CENTER EXTERIOR LIGHTS: LED FMVSS 108 EXTERIOR LIGHTS W/SEALED WIRING HARNESS EXISTING TAILLIGHTS MOUNTED REAR END: STAND REAR END DOOR OPENING GALVANNEALED REAR DOOR FRAME THRESHOLD PLATE 1/8 T.P. 24" STD 10G ONE PIECE V-GROOVED THRESHOLD BUMPER: ICC 3/16" FMD 4" CHANNEL POOCHED WELD ON DESIGN REAR DOOR: WHITING OVERHEAD DOOR WHITING PREMIUM SPEC OVERHEAD DOOR W/1-1/2" TRACK BRACKETS	\$6,000.00	\$6,000.00



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[www.kalidatruck.com](http://www.kalidatruck.com)

**QUOTATION**

1	<p>OH REAR DOOR 88" X 79" CLEAR MS LOCK ON OVERHEAD DOOR 2 GRAB HANDLES - REAR ALUM 12"</p> <p><b>**INSTALLED 2016 HINO 195**</b></p> <p>THIEMAN MODEL M16-ET 84" X 36" +6" STOW-A-WAY LIFTGATE 84" X 36" REINFORCED STEEL DIAMOND PLATE PLATFORM PLUS A 6" TAPERED RAMP (APPROACH) 1,600 LB. LIFTING CAPACITY POWER UP, GRAVITY DOWN MAINTENANCE FREE BUSHINGS ON ALL PIVOT POINTS REPLACEABLE PINS FACTORY INSTALL POWER UNIT INTEGRATED 150 AMP FUSE IN POWER CABLE HEAVY DUTY SUPPORTS TORSION SPRING TO ASSIST THE OPERATOR IN OPENING AND CLOSING THE PLATFORM SEALED SIDE MOUNTED TOGGLE SWITCH RECOMMENDED FLOOR TO GROUND MEASUREMENT BETWEEN 37" TO 54" PAINTED BLACK INSTALLED</p> <p>HEAVY DUTY DOCK BUMPERS LIGHT KIT</p> <p><b>**INSTALLED ON A 2016 HINO 195 CAB OVER**</b></p>	\$3,100.00	\$3,100.00
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Quote Total:	<b>\$9,100.00</b>
Sales Tax:	<b>\$0.00</b>
Total Due:	<b>\$9,100.00</b>

**The following options may be added:**

QUANTITY	DESCRIPTION	PRICE EACH	AMOUNT

Customer must fill out the information below before the order can be processed.

Accepted by:	
Date:	
P.O. number:	
Salesperson:	<i>BJ Messer</i>

- ◆ A 2% CHARGE WILL BE APPLIED TO ALL DEBIT/CREDIT CARD CHARGES OVER \$2,000.00
- ◆ Quoted price does not include any applicable taxes.
- ◆ Terms are Due Upon Receipt unless prior credit arrangements are made at the time of order.
- ◆ Due to the extremely volatile steel prices, our quoted price may change at any time. Call our office for an up to date price.