

**BUCKET TRUCK WITH ELECTRIC POWER TAKE OFF (ePTO)
DRAFT HVIP VEHICLE ELIGIBILITY APPLICATION**

This is an application manufacturers of aerial boom vehicles with zero-emission power take-off (PTO) to have their vehicles listed as eligible for the Air Resources Board's Hybrid Truck and Bus Voucher Incentive Project (HVIP). This application must be completed and submitted to ARB, and the vehicle must receive written ARB approval prior to being eligible for an HVIP voucher. This application applies to aerial boom vehicles with battery-electric powered PTO (ePTO) systems only. Aerial boom vehicles with other zero-emission PTO technologies may also be considered for HVIP eligibility on a case-by-case basis.

This application must be completed by the original vehicle manufacturer or its legal representative. An application must be submitted for each vehicle make, model and ePTO/battery configuration. For the purposes of the HVIP, an aerial boom vehicle is defined as a truck equipped with a bucket on the end of a hydraulic arm (boom) which is used to lift personnel in order to complete work at an elevated height.

Aerial boom vehicle eligibility requirements include:

- Only vehicles over 26,000 lbs gross vehicle weight (GVW) and with a boom maximum working height of at least 50 feet are eligible for funding.
- Only newly constructed vehicles are eligible for an HVIP voucher. Vehicle's utilizing a previously owned or registered chassis are ineligible.
- The vehicle ePTO system must demonstrate ability to charge from battery depletion (zero charge) to fully charged within ten hours.
- The vehicle must demonstrate completion of the duty cycle identified in Part V with ePTO power only (i.e. no engine idling to recharge the battery or to power the aerial lift). The ePTO battery must have at least 30 percent remaining charge at the completion of this duty cycle.
- PTO systems must use AC power with a capacity of at least 40 volts. PTO systems using DC power are ineligible.
- When the vehicle is idling, ventilation and air conditioning must be battery powered (rather than powered by the vehicle's engine).
- The vehicle and ePTO battery pack must be covered by a manufacturer warranty for a minimum of 36 months or 50,000 miles, whichever comes first, as described in Section X of the HVIP Implementation Manual.
- The vehicle must meet all applicable local, state, and federal laws, ordinances and requirements, including but not limited to all applicable safety and air quality regulations.

ARB reserves the right to request additional information or clarification of responses provided in this application. ARB may require additional information from the vehicle manufacturer or Final Stage Vehicle Manufacturer before listing a vehicle as eligible for funding.

Part I: Original Manufacturer Information

1. Company Name/Organization Name/Individual Name:		
2. Contact Name and Title:		
3. Business Mailing Address and Contact Information Street:		
City:	State:	Zip Code:
Phone: ()	E-mail:	

Part II: Vehicle Description

Please identify the vehicle and its applicable ePTO system proposed for HVIP eligibility in Tables B-1 and B-2, respectively.

Table B-1: Aerial Boom Vehicle Information

Vehicle MY	(vehicle make and model, engine model and MY)	Boom Maximum Working Height (ft)	Gross Vehicle Weight Range (lbs)*

* including ePTO system.

Table B-2: Aerial boom vehicle ePTO Information

Battery Manufacturer	Battery Chemistry	Battery Pack Terminal Voltage	Battery Capacity (kWh)	Regenerative Braking? (y/n)

What is the typical California pre-tax cost with normal dealer profit of the aerial boom vehicle identified in Table B-1 when equipped with the ePTO system identified in Table B-2?

\$ _____

What is the typical California pre-tax cost with normal dealer profit of the truck identified in table B-1 with traditionally powered PTO (i.e. no ePTO, the vehicle engine idles to power bucket movement)?

\$ _____

Part III: Self-Certification of Vehicle, Engine and ePTO Parameters

Please check the box next to each statement if the statement is correct. Do not check the box if the statement is not correct.

- The vehicle complies with applicable air quality provisions of California and federal law.
- The vehicle complies with motor vehicle safety provisions of 49 USC Sections 30101 through 30169.
- The vehicle meets the original engine manufacturer’s build requirements.
- No modifications have been made to the engine hardware or after-treatment device(s).
- No modifications have been made to the engine’s original software calibrations.
- There is at least one service provider for the vehicle in California. Please provide name and city of primary service provider:

- The ePTO battery uses AC power with capacity of at least 40 volts.
- The vehicle and ePTO battery pack are covered by a manufacturer warranty that provides protection for a minimum of 36 months or 50,000 miles, whichever comes first. (The first 12 months of the warranty provide full coverage for the motor, drive train, battery, parts and labor. If the warranty for the remaining 24 months is prorated, the percentage of the battery pack’s original value to be covered or refunded is at least as high as the percentage of the prorated coverage period still remaining.)
- This vehicle’s electric drive or software calibrations shall be installed or modified at a Truck Equipment or Final Stage Manufacturer (TEM). If answer is “yes”, please indicate:

Truck Equipment Manufacturer Name:		
Contact Name and Title:		
Street Address:	State:	Zip Code:
Phone: ()	E-mail:	

Part IV: Application Attachments to be Provided by Original Vehicle Manufacturer

- Warranty provisions.
- After sales service provisions.
- MSRP price sheets.
- If any of the eight statements in Part III are not true and correct (i.e. if any of the boxes above are not checked), please attach a narrative explaining why.
- Briefly describe what information is provided to hybrid vehicle dealers/purchasers regarding proper disposal of the ePTO battery and how this information is conveyed.

Part V: Minimum Vehicle Duty Cycle Requirements for Aerial Boom Vehicle Manufacturers

tbd

Part VI: Applicant Signature

I hereby certify by penalty of perjury that all information provided in this application and any attachments are true and correct. Submission of false information on this form is punishable under penalty of perjury under the laws of the State of California.

Printed Name of Responsible Party:	Title:
Signature of Responsible Party:	Date: