



**INPS**  
ENVIRONMENTAL  
PRODUCTS INC.

# THE **BANANA** LOCOMOTIVE APU

## Save on fuel without sacrificing crew comfort

Our proprietary **Banana APU**  
is designed to:

- Reduce excess idling
- Save fuel
- Reduce engine wear and souping
- Keep your crew comfortable

A true **win-win** for everyone.



From the team that brought you  
the world's first commercially  
available locomotive APU –  
and supplied tens of thousands  
of APU's to the transportation  
industry – IEP presents their  
newest innovation:

## **The Banana** AUXILIARY POWER UNIT BY IEP

## We were green, but now we're ripe...

### We listened!

**You said reduce the size and weight...**

**You said make it 72 VDC...**

We've done that and kept the same price as  
the original locomotive APU first introduced  
over 15 years ago!

The **Banana** features a CAT/Perkins diesel  
engine that is governed at 2,800 RPM.  
The engine drives a 130 A, 72 VDC (11kW)  
generator that heats the locomotive coolant  
and lube oil, charges the batteries, and can  
be used to power cab heaters, lights and air  
conditioners, ensuring your crew's comfort.

The **Banana** takes green technology and  
ripens it to perfection, incorporating  
innovative new design and automation.  
The **Banana** includes an advanced control  
system complete with adjustable on/off  
locomotive water temperature and battery  
set points and **CAN** bus communication  
enabled.

### **Everyone wins with a Banana!**

You'll reduce excess idling, save money on  
fuel and engine wear, meet EPA emissions  
regulations and local noise ordinances, and  
keep your crew comfortable – it's a win-win  
for everyone.

# THE BANANA LOCOMOTIVE APU

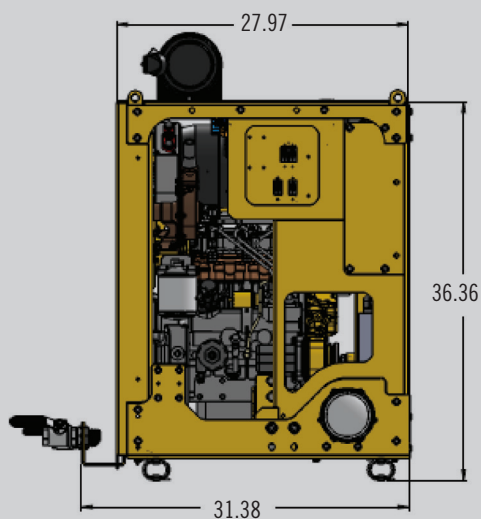
Saves fuel and engine life without sacrificing crew comfort

## Specifications & Features:

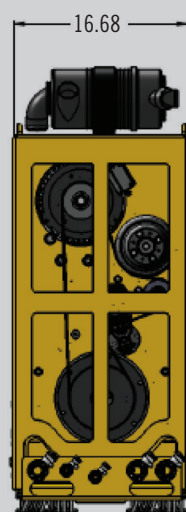
Engine	Perkins 400 Series 3 Cylinder Diesel, 28 hp@2800 rpm; Tier 4; Low oil pressure and coolant over-temperature shutdown's
Lubrication System	6 gallon oil capacity with oil level maintainer and filter
Electrical System	130A, 72VDC generator for locomotive loads; 40A, 12VDC APU alternator for APU loads
Fuel System	12VDC electric fuel lift pump; filter
Cooling System	Glycol based APU cooling system; cooled via liquid to liquid heat exchanger with locomotive water
Locomotive Engine Water Heating System	12 kW via smart 72VDC heater; and waste heat recovery
Locomotive Engine Oil Heating System	4 gallon/min circulation via APU driven pump through liquid to liquid heat exchanger



**Weight & Dimensions:** Dry weight estimate = 690 lbs



PATENT PENDING



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For more information, contact **Julie Briscoe:**  
[jbriscoe@inps.net](mailto:jbriscoe@inps.net) or (800) 565-3509