



# The PET – Portable Energy Technology

Ovanova's Portable Energy Technology (PET) is a towable microgrid delivering clean, resilient energy for disaster zones, remote communities, and grid-challenged areas. It integrates solar, battery storage, EV V2X, and bi-fuel generator backup. PET meets critical needs for mobile, off-grid power—and offers strong revenue potential through rentals, energy deployment, and platform integration.

## Patent-Pending Technologies Powering the Ovanova PET



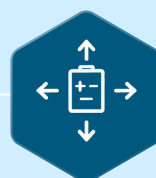
### Vehicle-to-Trailer Power Station

Allows PETs to draw power from electric vehicles to run external loads—turning EVs into mobile backup sources during outages or in remote areas



### Building Power Integration

Connects the trailer to buildings as a plug-and-play energy source for backup power, peak-shaving, or load-shifting.



### Multi-Source Charging

Supports recharging from solar, generator, or grid—individually or in combination—for reliable power anywhere. EVs can assist by powering loads.



### Secure Grid Interface

Equipped with Starlink and secure RF comms, PETs enable real-time grid coordination—built to meet FEMA and defense-grade standards



## PET Versions – Detailed Specifications

### The PET Spark

- **Trailer Size:** 5 ft × 8 ft, single axle, SUV towable
- **Solar Array:** 1.29 kW DC PV
- **Battery Storage:** 32 kWh LFP
- **Inverter Power:** 11.4 kW AC continuous (120/240V split phase)
- **Generator:** Compatible with external 120V or 240V generators
- **EV Interface:** Supports charging via NEMA 14-50 outlet (compatible with most portable EVSEs)
- **Charging Sources:** Grid charging, solar charging, external generator charging
- **Receptacles:** Onboard 120V & 240V outlets
- **Communications:** Starlink Internet, sub-1 GHz RF secure comms, cellular, Wi-Fi

### The PET Flame

- **Trailer Size:** 7 ft × 18 ft tandem axle
- **Solar Array:** 4.59 kW DC PV (6 roof + 6 awning modules)
- **Battery Storage:** 64 kWh LFP (8 × 8 kWh)
- **Inverter Power:** 22.8 kW continuous AC (120/240V split phase)
- **Generator:** 26 kW DC-coupled bifuel, integrated (supports propane)
- **EV Interface:** 2 × bidirectional EV charge/discharge ports (V2X capable)
- **Charging Sources:** Grid charging, solar charging, generator charging
- **Receptacles:** Onboard 120V & 240V outlets
- **Communications:** Starlink Internet, sub-1 GHz RF secure comms, cellular, Wi-Fi

### The PET Ember

- **Trailer Size:** 6 ft × 12 ft tandem axle
- **Solar Array:** 3.06 kW DC PV
- **Battery Storage:** 64 kWh LFP
- **Inverter Power:** 22.8 kW continuous AC (120/240V split phase)
- **Generator:** 9 kW DC-coupled, integrated into trailer
- **EV Interface:** 2 × bidirectional EV charge/discharge ports (V2X capable)
- **Charging Sources:** Grid charging, solar charging, generator charging, EV Charging
- **Receptacles:** Onboard 120V & 240V outlets
- **Communications:** Starlink Internet, sub-1 GHz RF secure comms, cellular, Wi-Fi

### The PET Blaze

- **Trailer Size:** 7 ft × 18 ft tandem axle (same as Flame v2)
- **Solar Array:** 4.59 kW DC PV
- **Battery Storage:** 114.4 kWh
- **Inverter Power:**
  - 62.4 kW @ 120/208V three-phase
  - 24 kW @ 120/240V split phase
- **Generator:** 26 kW DC-coupled bifuel, integrated
- **Charging Sources:** Grid charging, solar charging, generator charging,
- **Receptacles:** Onboard 3 phase wiring connection
- **Special Feature:** Accepts split-phase input and outputs both split phase and three-phase power simultaneously
- **Communications:** Starlink Internet, sub-1 GHz RF secure comms, cellular, Wi-Fi

# PERFORMANCE & FEATURES

- Portable, road-ready microgrid platform
- Operates fully off-grid or with grid tie-in capability
- Fast deployment with single-cable connection to building infrastructure
- Solar-first operation with quiet, clean generator backup
- Resilient design supporting bidirectional EV charging and discharging
- Backed by a 10-year comprehensive warranty

## EVERYONE NEEDS A PET

### 9 Identified Use Cases plus a Robust Rental Market

- ✔ **Film & TV productions** – silent set power, fuel savings, greener shoot credentials.
- ✔ **Concerts, festivals, weddings, sporting events** – audience-friendly silence, no fume complaints, visible solar = great PR.
- ✔ **Construction & infrastructure sites** – longer work hours in noise-sensitive zones, lower diesel spend, compliance with new low-emission rules.
- ✔ **Municipalities & public works** – mobile backup for shelters, traffic lights, or fairs.
- ✔ **Emergency services & disaster relief** – resilient “lifeline” power that doesn’t depend on fuel convoys; can recharge e-ambulances and turn EVs into fuel delivery convoys to PETs deployed in disaster zones.
- ✔ **Mobile healthcare & clinics** – clean, quiet electricity for medical devices, refrigeration, HVAC anywhere.
- ✔ **Utilities & telecom** – rapid-deploy grid support precisely where it’s needed most, avoiding expensive infrastructure upgrades.
- ✔ **Mining, oil & remote industry** – cuts delivered-fuel bills, improves ESG scores, powers electric site equipment.
- ✔ **Agriculture & ranching** – drives pumps, agro-robotics, or cold-storage off-grid.

## ⚡ Power What's Possible with PET

Whether you're preparing for the next outage, building a cleaner future, or seeking a resilient income stream

**PET puts energy in your hands, wherever it's needed most.  
Own. Deploy. Earn. Empower.**

Reserve your PET at [www.ovanova.co](http://www.ovanova.co)  
Invest via [wefunder.com/ovanovapet](http://wefunder.com/ovanovapet)

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