

Lt. Dale Barnard, Dallas PD *Police Vehicle Testimonial*

In my 22 years in law enforcement, this is the first thing invented that lets us do something green without sacrifice," Barnard said. "In fact, it actually makes the car better - more fuel efficient; longer battery life."



Lt Barnard continues...

“and, most importantly,
my Officers **KNOW**
they will never be left
stranded”.



Introduction

Energy Xtreme, LLC

Power Solutions Company

Remote power

inverter/generator replacement, light towers, hybrid mobile trailer and storage.

Consulting

energy efficiency, carbon consulting, project management, technology integration, grant writing.

Power Integration

large scale load leveling, micro grid, peak shaving, blink less power supply, demand curtailment, pragmatic renewable platforms.



Vehicle Mounted Units



Power Output: 5000 Watts
Power Output Peak:
10,000 Watts
Output Voltage: 110VAC
& 220VAC & DC
Output Frequency: 60 Hz
Circuits: 20, 30 and/or 50
Amps
Capacity: 4000 – 10,000
kW Hrs
Starting Power: 2500
Amps



Mobile Units

Power Output: 5000 Watts

Power Output Peak: 10,000 Watts

Output Voltage: 110VAC &
220VAC & DC

Output Frequency: 60 Hz

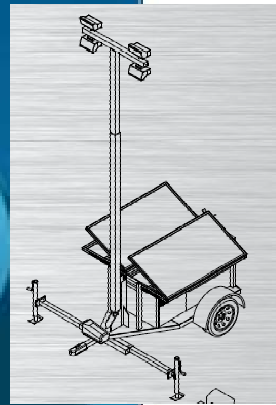
Circuits: 20, 30 and/or 50 Amps

Capacity: 2000 – 4000 kW Hrs

Starting Power: 2500 Amps



Other Storage Applications



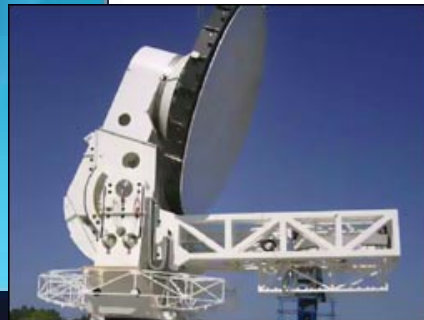
Large Scale Utility Grade Applications

SmartGrids

Wind Farms

Solar Farms

Load Leveling/Peak Shaving



Introduction

Energy Xtreme, LLC

Sustainable Company

Manufactured in United States

Technology – Grove, Oklahoma

Power Electronics – Vermont

Assembled – Kyle, Texas

Growing

\$200 million in incentives to build new site in Wixom, Michigan

Green Energy Show Case with Solar Partner

Overall, investment up to \$725 million in project and 4,300 jobs



Fleet Priorities

1. Vehicle Functionality
2. Vehicle Performance
3. Public Safety
4. Cost Effectiveness
5. Energy Efficiency/Emissions Reductions
6. Public Health for Residents
7. Utilizing Better Technology



Fleet Challenges

1. Environmental Pressures

- Legislative, federal, state, local, air quality, less dependence on petroleum, EPA, ARB, SCAQMD, etc

2. Unpredictable Fuel Costs

- Hedge uncertainty in commodity markets; energy

3. Fleet Maintenance

- Less idle time = less maintenance time = more production time per dollar invested

4. Dead Batteries

- Lower internal fleet cost, decrease carbon footprint



Reduced Emissions

20lbs of CO₂ is created per gallon of gasoline burned.

Small to Medium Duty Fleets create over 23 billion pounds of emissions annually, idling.

Annual Emissions Profile:

11 million tons of carbon dioxide

200,000 tons of nitrogen oxide

5,000 tons of particulate matter

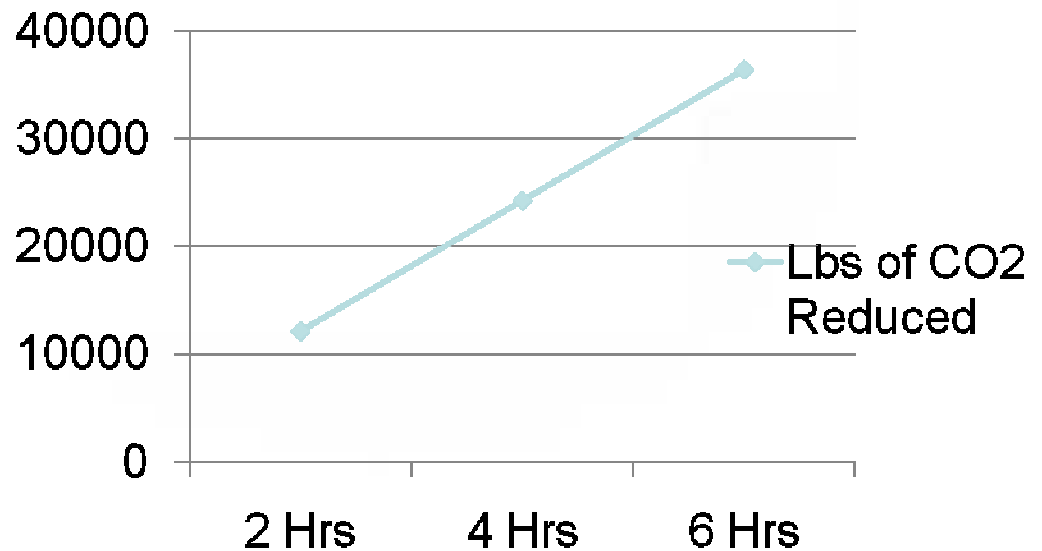
Argonne laboratories



CO2 Emissions Annually



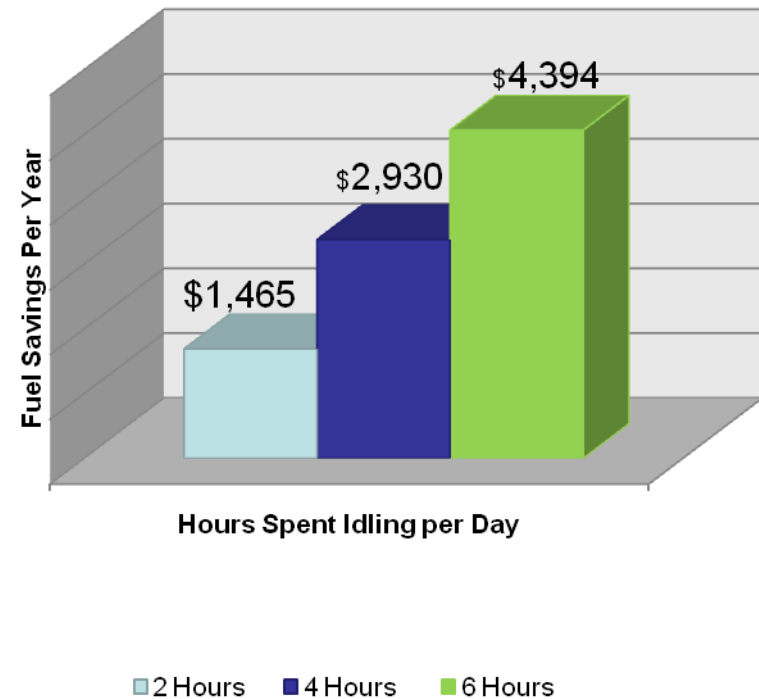
Lbs of CO2 Reduced



Assume
1 Gallon of Gasoline Burned
creates 23 lbs of CO2 –
EPA
22 work days/month
1 gal gas burned/hour idled



Annual Fuel Costs



Assume :

\$2.86/gallon – avg. for past yr DOE

.97 gal burned / hour idled

22 work days / month





Fleet Maintenance

Each hour idled equates 35 miles driven.

- Subpar performance of engine
 - Low internal temperature
 - Incomplete combustion
- Increased engine maintenance
- Shortened engine life





So we know idling is a problem, and we know mobile emission sources contribute the most, but what is a solution?



Independence Package



- How to reduce fuel consumption and green your fleet.

Power Cell Technology



- VERY SAFE
- NO EMISSIONS
- Requires NO FUEL
- Non-Hazmat, dry, solid state
- No Moving Parts
- No Maintenance
- Highly Resilient; abuse tested: short circuit, high current, high temp (130)
- Excels at 24/7 operations
- Recyclable
- Runs Silent
- 5 year life
- Provides Mobile Emergency Power



Independence Package Specifications



Starting Power	2500 Amps
Power Cell Capacity	2000 Whrs
Charger Input Voltage	115 VAC
Charger Input Power	950 Watts
Charger Output Current	55 Amps

Enclosure Powder Coated Aluminum
Dimensions (LxWxH) 12.25" x 8.75" x 33.25"
Weight 140 lbs

Options:
High Output Alternator
Pure Sine Wave Inverter
Heavy Duty Jumper Cables



Summary

- 4+ hours of run time of full electrical load
- Charges while you drive
- NO EMISSIONS
- Save on fuel costs
- Save engine wear and tear
- 100% redundancy – NO DEAD BATTERIES
- Zero maintenance
- Silent Operation
- 98% recyclable
- Gun shot safe
- Abuse tested



Proprietary software

Reports Environmental Impact quarterly

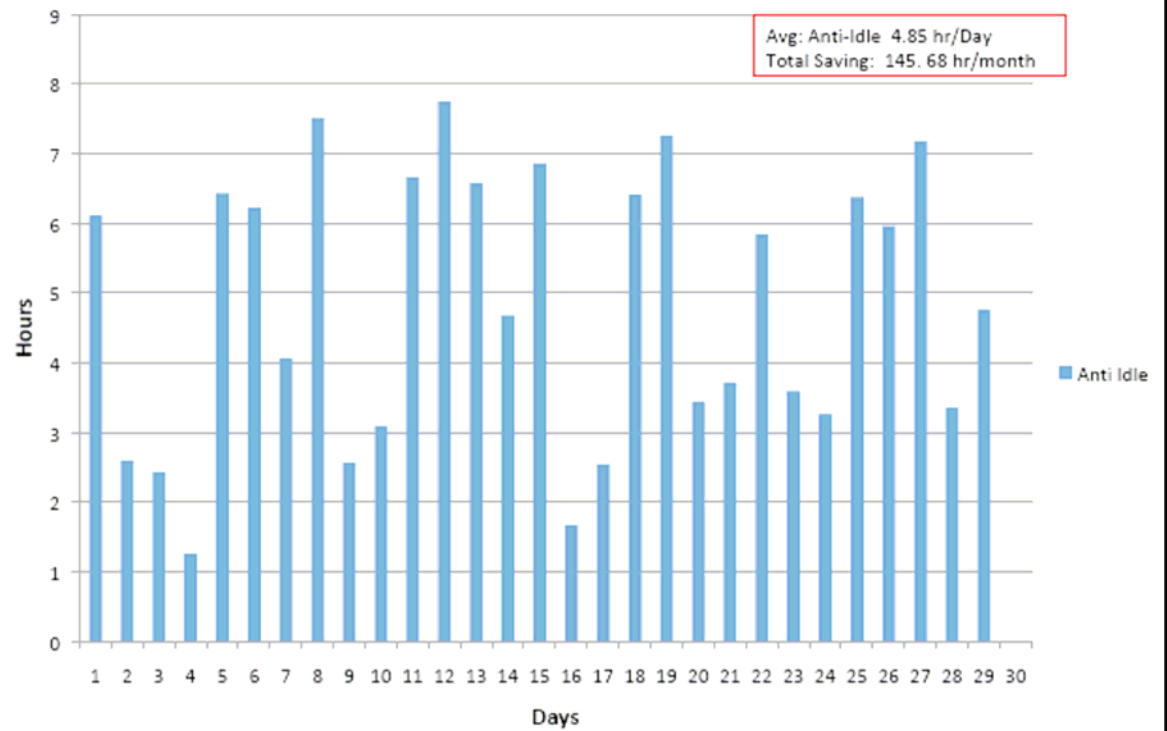
1. Annual report on operational and **environmental impact.**
 - Methodology is carbon accreditation pending, CCAR
2. Reported quarterly
 - Empirical Data
 - Holistic operation summary- operation hours, delta,
 - Cost Analysis



Dallas PD Pilot Program Empiracle Data



Monthly Anti Idle Analysis May 01-30/2009



How to Purchase

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