

ENERGY XTREME

CONSERVATION THROUGH INNOVATION

Idle Reduction Technology



Today's Fleet Challenges

- Escalating Costs
- Environmental Pressures/Emissions
- Increased Legislation

Reduced IDLE TIME can address each of these

Escalating Costs

- Skyrocketing Fuel Prices
- Fleet Maintenance
- Increased Liability

Skyrocketing Fuel Prices

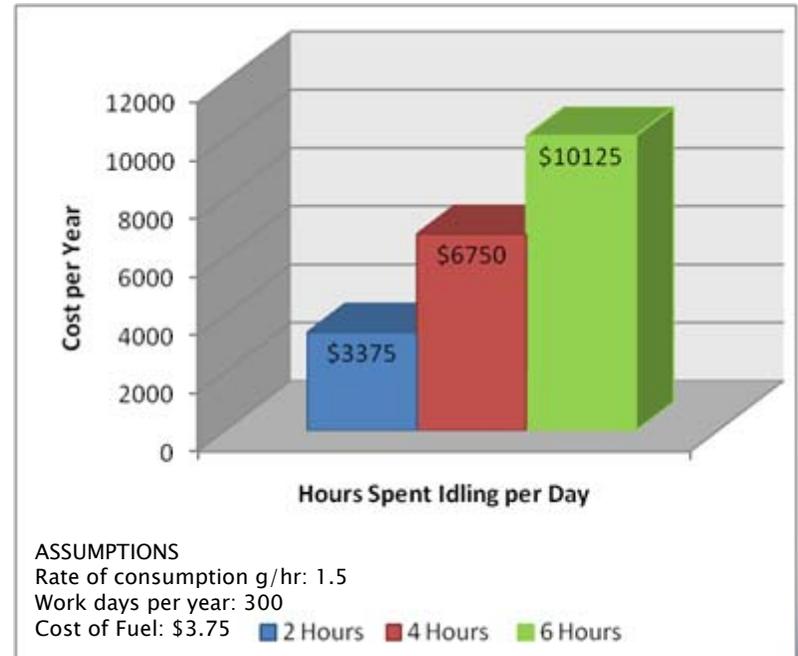
- On 2/22/1999 you paid \$.885 for a gallon of gas. Today you are Paying close to \$4.00.
- By preventing just 2 hours of engine idle a day with a fleet of 100 saves \$337,500 in fuel costs.
- DPS Case Study

Annual Fuel Savings

Anti-Idling Police Cruiser Cost Study
Idling can cost more than \$10,000 annually!



Total cost of fuels wasted



By preventing just 2 hours of engine idle a day with a fleet of 100 saves \$337,500 in fuel costs.

Fleet Maintenance

- ▶ Each hour idled equates 35 miles driven
 - Subpar performance of engine
 - Low internal temperature
 - Incomplete combustion
 - Increased engine maintenance costs
 - Shortened engine life



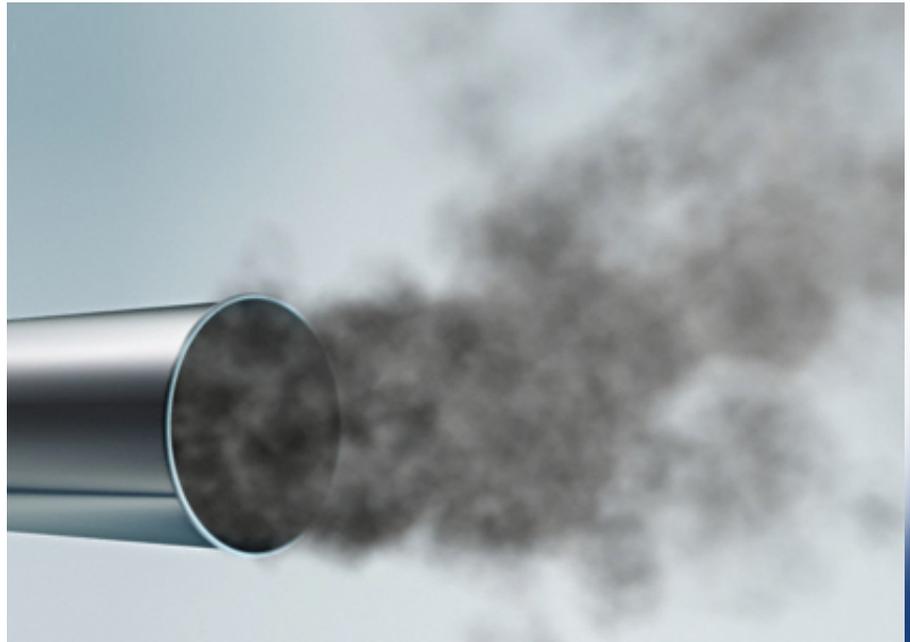
Increased Liability

- Combustible Engines are dangerous
- Ambient Air Quality:
- Chronic illness to death by Asphyxiation
- Workman's Compensation



Environmental Pressures/Emissions

- 23lbs of CO₂ is created per gallon of gasoline burned.
- Small to Medium Duty Fleets create over 23 billion pounds of emissions annually, idling.
- Annual Emission Profile
 - 11 million tons of carbon dioxide
 - 200,000 tons of nitrogen oxide, and
 - 5,000 tons of particulate matter emitted.



Reduced Emission



Annual Lbs CO2 Emissions Reduced

ASSUMPTIONS
1 Gallon of Gasoline burned
Creates 23lbs of CO2
EPA

Reduces 1 ton of NOx for only \$4,545

Increased Legislation

- Until now, attention has been focused on overnight idling by tractor-trailers with sleepers, which represent a very visible and obvious target for conservation and emission-reduction efforts.
- As a result of the Argon study, the government is redirecting it's anti-idling attention to small and medium sized fleets .
- “The sum of workday idling of trucks may consume well over 1 billion gallons of oil annually in the United States costing fleets \$3.5 billion.”
- 23.8 million barrels consumed in idle cost fleets \$3.5 billion annually
- ENERGY INDEPENDENCE!!

REFERENCES:

1. Stodolsky, F., L. Gaines, and A. Vyas, *Analysis of Technology Options to Reduce Fuel*.
2. *Argonne Laboratories*
3. http://www.eia.doe.gov/oil_gas/petroleum/data_publications/wrgp

SOLUTION!

Conservation Through Innovation

Conservation Through Innovation



What if you had

Use of 100% of essential equipment,
Increased reliability,

Added functionality,

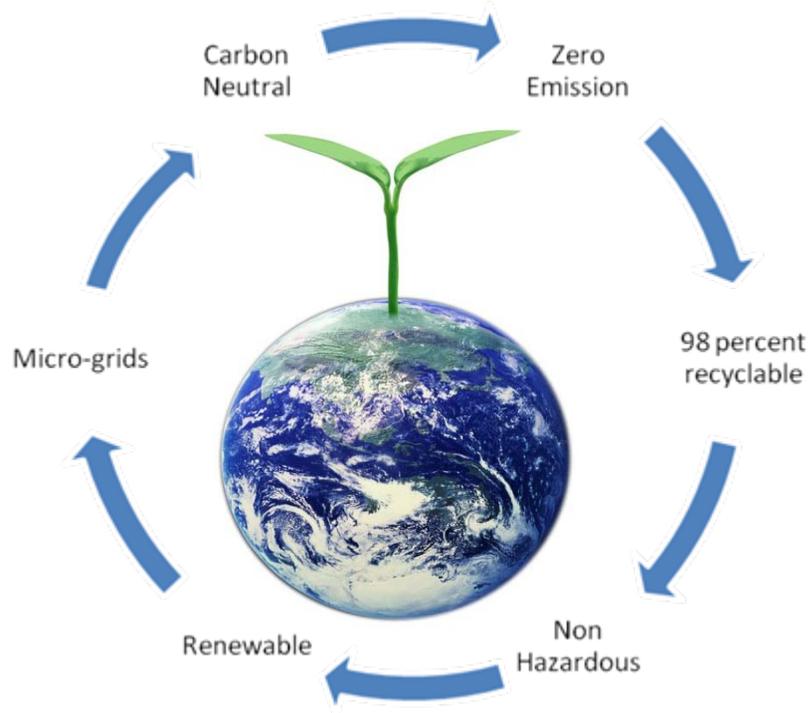
Reduced emissions

AND saved significant money!

All without the engine engaged?

Energy Xtreme has a solution.

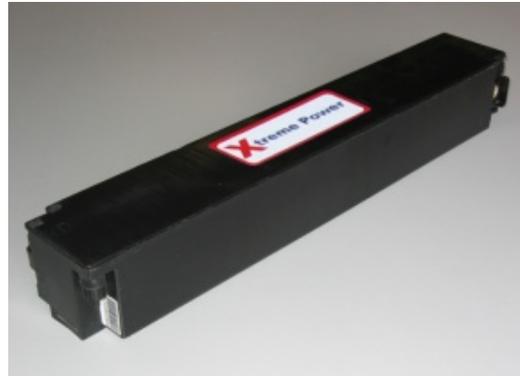
No Fuel. No Noise. No Worries!



“Actions are the **seed** of fate.” Harry S. Truman



POWER CELL TECHNOLOGY



- Originally developed by Tracor 10+ years ago
- Utilized by Department of Defense
- 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
- Reduced Liability
- No Emissions
- 98 % Recyclable
- Runs Silent
- 5-10 year life
- Provides Mobile Emergency Power
- Capable of Running AC, DC & LED lights

Product Range



Journeyman II

Professional II

Commercial Series

Truck Underbody
Power Box

Power Plus
Tool Box

Professional
Tool Box

Light Unit



[VIEW PRODUCT SPECIFICATIONS](#)

Applications

- Replace generators
- Replace truck inverters
- Power rectification
- Surge protection
- UPS
- Emergency First Responder

Case Study: Cable Company

	Xtreme Power Technology JII	Dimension Inverter
Fixed Cost		
Output Cont.	5,000 watt	1,800 watt
Output Peak	10,000 watt	3,000 watt
Output Voltage	115VAC	115 VAC
Output Freq	60	60
Starting Power	2500 Amps	NA
Powercell Capacity	2000 Whrs	NA
Charger Input Voltage	115 VAC	NA
Charger Output Current	55 Amps	
Dimension	34x12x14	15x16x7 1/2
Weight	200	42
Fixed Cost.	\$ 3,995.00	\$ 4,000.00
Price per watt (Initial purchase)	\$ 0.80	\$ 2.22

		Xtreme Power Technology JII	Dimension Inverter
Monthly Operating Cost			
Hours per day@ idle		0	6
Operational Hours		180	180
Gallons burned at idle	2	0	360
Miles logged idle		0	6300
Cost of fuel	4	15	1152
Price per charge on Xp	0.5		
Monthly Total			
Miles logged		0	6300
Cost of operation		\$ 15.00	\$1,440.00
Per Day		\$ 0.50	\$48.00



*gasoline consumption based on 2 gal per hour figure

*idle mileage based on 35 mi per hour idle.

*cost of generator maintenance not included

Comparison

		POWER CELL TECHNOLOGY	
		Traditional Battery	POWER CELL
Cycle Life*		100-1000	2500-250000
Power Output (Amps)			
	Cont. Discharge	300	1300
	Peak Discharge	650	5000
	Cont. Charge	150	1300
	Peak Charge	300	5000
Recyclability		85%	97%
Price (\$/kWhr Life 80% DOD)		.075-.25	.05-.092
*Dependent on Depth of Discharge			

Superior Alternative

- Xtreme Power Units

- NO Fuel Required with extended run times
- High Reliability
- NO Maintenance
- SILENT: Better work environment
- High power availability in small print
- NO Emissions: Environmentally friendly
- 98 % recyclable, buyback program
- No combustible engine

Current Technologies

- Depend on gasoline and/or minimum run times
- Low reliability
- Maintenance
- Loud
- Overpowered
- Constant source of unregulated emissions
- Damaging to environment
- Fire Hazard



Satisfied Customers

- City of Austin, Texas
- Farbor
- Tuff Sheds
- Friday Night Lights
- City of Louisville, Kentucky
- Schwob Metal Contractors
- Many others, feel free to ask about your respective industry



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