




# POWER SHAVER

Energy Saving Systems.®

— FEATURING —  
 **The Electrical Watch Dog**  
**USES**

**GREEN SOLUTIONS**  
**COMMERCIAL & RESIDENTIAL EFFICIENCY SYSTEMS**

# SERVICE

## Power Shaver

**Power Shaver** is the manufacturer's international distributor for the Universal Shunt Efficiency System, USES®. Our technology is UL, CSA, and GSA verified and has been installed in facilities around the world for over 25 years. Power Shaver offers a global network of authorized technology distributors that are specially trained to assess the specific needs of our customers and to apply the most beneficial Energy Saving System to reduce energy use and costs, while protecting against poor electrical conditions, surges and lags in power supply.

Power Shaver offers standard and custom-designed modular efficiency and protection systems that are installed in parallel to the electrical system to reduce the kW demand from the utility provider. Contact Power Shaver now to save in your facility.



**POWER  
SHAVER**  
Energy Saving Systems®

**REDUCE DEMAND & CONSUMPTION**

**REDUCE HARMONIC DISTORTION**

**REDUCE GREENHOUSE GASES**

**REDUCE CARBON FOOTPRINT**

**CONVERT TRANSIENT ENERGY**

**INCREASE EQUIPMENT LIFE**

**INCREASE POWER FACTOR**

**PROTECT FROM SURGES**



**PowerShaver.com**

# PERFORMANCE

## How USES® Works

The patented USES® technology is a dynamic, passive, resonance-free magnetic field induction system that reduces kW demand and kWh consumption through five methods:

- 1 Magnetic phase balancing** of voltage and current to safely reduce waste, demand, friction and heat in loads;
- 2 Passive resonance-free power factor correction** to reduce the demand of reactive non-power currents;
- 3 Harmonic filtering of non-power currents** to reduce the billed kWh consumption and improve power quality;
- 4 Transient energy conversion** through the surge protections self-healing magnetic chokes – energy above the operational voltage is absorbed, re-constituted, and returned to the customer as usable safe power;
- 5 Power generation** through our proprietary chokes generate voltage and current from each phase per Faraday's and Lenz's law that is injected into the adjacent phases as usable power reducing the kW demand and kWh consumption.

It has been found that our unique arrangement of chokes provides substantial reductions in real power usage for all applications. The immediate benefit is a verifiable reduction of electric utility bills. Additionally, equipment life is increased while maintenance and downtime are reduced.

The USES® technology employs self-healing magnetic chokes and metal oxide varistors as its two forms of surge and spike protection.

The USES® modular units are not custom-built per loads, but are specifically and intentionally placed throughout a facility according to the operational demands. They will help protect against damage from surges, sags and phasing, and are maintenance-free with an expected life of approximately 20 years. They are VFD or any control system compatible.

## See the Difference

Below are recent sample assessments of customer facilities. These numbers represent actual readings of the volts, amperage, kW demand and power factor, and were taken both with and without the USES® technology. Review the recorded instant demand reductions and efficiency increases.

### NATIONAL AGGREGATE COMPANY

USES® STATUS	USES® UNIT ON	USES® UNIT OFF	DELTA
kW	441	458	<b>-17</b>
kVA	482	588	<b>-106</b>
KVAR	193	368	<b>-175</b>
CURRENT	569	709	<b>-140</b>
VOLTAGE	489	481	<b>+ 8</b>
POWER FACTOR	.92	.78	<b>+ .14</b>

### CALIFORNIA FEDERAL COURTHOUSE

USES® STATUS	USES® UNIT ON	USES® UNIT OFF	DELTA
kW	696	718	<b>-22</b>
kVA	697	751	<b>-54</b>
KVAR	216	348	<b>-132</b>
CURRENT	862	923	<b>-61</b>
VOLTAGE	475	473	<b>+ 2</b>
POWER FACTOR	1.00	.96	<b>+ .04</b>

**Discover what you could be saving!**



USES® MFG INC. is the manufacturer of a line of electrical energy conservation and power conditioning products. It is a licensee of USES, Inc., developer of the product's technologies.

The Company's principal product is the **USES® Shunt Efficiency System**, a solid state, power conditioning device which reduces the electrical energy that must be supplied by the utility company to operate electrical loads. It also offers protection from voltage transient surges and spikes and from secondary lightning effects.

The Corporation's lineage is traced to the establishment, in 1980, of a Connecticut-based electronic design and electrical contracting company. The shunt efficiency system has evolved, in part, from a lightning surge protector specifically designed and built for a client. Based upon the success of that design, USES, Inc. was formed in 1990 to further pursue development of electrical energy conservation and power conditioning products. USES® MFG INC. was formed in 1993 to concentrate on manufacturing the USES® products along with other research and development efforts focused on further applications of the USES® technology.

## Benefits

The benefits derived from USES® units include:

- Improved equipment reliability, including computer and electronic systems
- Reduced life cycle maintenance, repair and replacement costs

The maintenance-free units are easily installed at service panels or distribution panels, or they can be connected locally to equipment on the line side of any controllers, depending on the facility's equipment and electrical distribution system. Each unit comes with a 3 year warranty covering the repair or replacement of the USES® unit. If the unit fails during use, Power Shaver will repair or replace the unit at no charge.

## Environmentally Friendly

USES® helps the environment. Each year a **single** commercial model XL- 3D 480 volt unit can reduce the consumption of 61,000 kWh – a savings equal to 35.89 US barrels of oil, 10.32 tons of coal, 202,470.96 cubic feet of natural gas, 1,675.02 gallons of gasoline, or 1,500.75 gallons of diesel – and prevent 47.4 tons of CO<sub>2</sub> emissions.

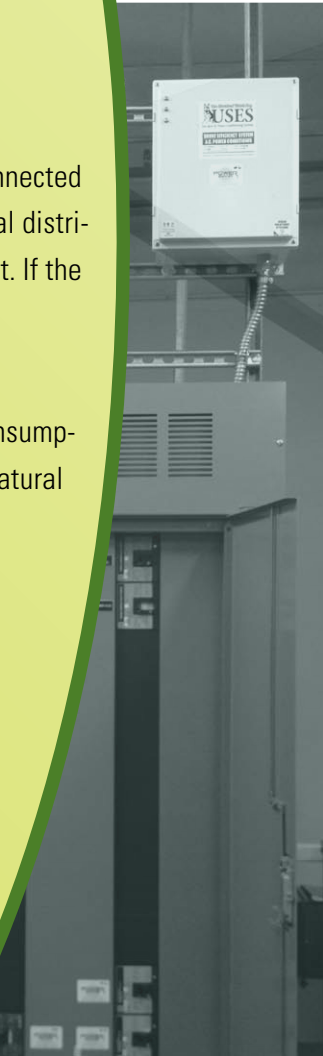
**Patents** USA : US2012 International : W02012

USES® performance is substantiated during the patent application process and is UL, CSA, and GSA certified.

**GSA** Contract Holder Contract Number GS-07F-0422W

The U.S. Department of General Services Administration

**Power Shaver** is proud to be the Qualified Contractor and provider of the USES® technology for the federal government. Title 056, Group 61, SIN 412-99. "Alternate Energy Solutions."



# SAVINGS

## The Process

In order for a Power Shaver authorized dealer to provide an Energy Saving System proposal we will need specific information to determine the detailed electrical requirements and types of equipment unique to your facility. Upon completion of our Savings Evaluation we will then be able to generate a proposal with a performance guarantee. Upon installation, Power Shaver will verify the system performance through timed interval sampling electrical measurements and the actual electrical usage. Power Shaver offers a lease purchasing program for up to sixty months, with no pre-payment penalty that will allow the savings to exceed the lease obligation. The first step is to contact Power Shaver now.

## Look Who's Saving with USES®

Department of Homeland Security • The White House • U.S. Corps of Engineers • U.S. Marine Corps • U.S. Naval Academy  
GSA Heating Operation & Transmission Dist. Washington, DC • Daily Republic • US Phillipine Embassy • Federal Courthouse  
U.S. Postal Service • Sierra Nevada Construction • The Washington Post • Town of Waterford, CT • Nutrena Feeds  
Case Western University • State of Connecticut • Boston College • Withrow Dairy • University of Ottawa, CN • Purina Mills  
Reebok • Abitibi-Price Pulp & Paper, CN • Bristol Myers • General Foods • Guittard Chocolate • Pepsi-Cola Bottling • isola  
Jamestown School District • JC Penney • Granite Construction Company • Marriott • Sacramento Container Corp.

## Sample

Actual Power Shaver installation verification recordings demonstrating kW demand and current reductions along with voltage and power factor increases when our system is activated.



[PowerShaver.com](http://PowerShaver.com)





**Call now & start saving!**

**International  
USES® Distribution**  
**1 (888) 976-9375**  
**info@powershaver.com**  
**www.PowerShaver.com**

**GSA** Contract Holder  
Contract Number  
GS-07F-0422W

## **PERFORMANCE GUARANTEED!**

### **What People Are Saying**

It was determined that the USES® power enhancement system was reducing the bill in three distinct ways; by reducing total kilowatt hours by 10.4%, by reducing the total demand charge by .03%, and by increasing the power factor credit by 1.8%. This translated into an average overall reduction of 12.23% on the total bill. Having been so impressed with its performance, we are looking forward to utilizing the USES® technology with our other organizations.

— Ajay Pothen, Marianas Properties, LLC, for Guam Marriott Resort & Spa

The 2010 installation of the Power Shaver energy saving and surge protection USES® technology in The Washington Post Springfield, Virginia printing plant has proven to be much more valuable than we had anticipated. The actual energy reductions and savings have exceeded the proposed expectations providing for an even shorter payback than we had anticipated. The Power Shaver system has provided many benefits in an environmentally friendly manner, and it has proven to be a valuable asset to our operations and The Washington Post's efforts to preserve our natural resources.

— Facility Manager, The Washington Post, Springfield, Virginia Printing Plant

In March 2011, our clubhouse facility was impacted by a serious power outage in the area. Many homes and businesses were disrupted. Fortunately for us, the USES® power conditioning and energy efficiency system was installed prior to this outage. As a result, we experienced no loss of data or harmful effects to our computers, electronic devices, or office equipment. Even more impressive, our utility bills have been reduced on average of about 15% per month. We are quite pleased with this investment and highly recommend the USES® products for power conditioning, power factor correction, and kW demand/kWh consumption reduction. This energy savings system does work and we are excited to offer our wholehearted endorsement of these products.

— Daryl Akiyoshi, CHA/COO/GM, Ko'olau Ballrooms and Conference Center, Oahu, Hawaii

**Contact your local  
Authorized  
Power Shaver  
Distributor**