



R World Energy is serious about providing the best conservation solutions to its clients. We call all our conservation solutions our “**Conservation Pack**”.

Listed below are the main areas where energy is consumed:

- ✓ Lighting
- ✓ HVAC
- ✓ Significant Power – motors, etc

In some businesses like manufacturing plants, golf courses and others, they have equipment that utilizes significant power. In most cases, however, lighting and HVAC consume the highest amount of energy. R World Energy focuses its solutions on this historical energy consumption pattern.

Lighting

LED and intelligent lighting is a major piece of R World’s Conservation Pack. The LED and other high efficiency lighting fixtures and retrofits we provide are developed and produced using state-of-the-art patented technology. Mostly manufactured in the US, these lighting fixtures and retrofits perform better than existing lighting technologies as well as other LED products while consuming, on average, up to 45-80% less energy. Having made such dramatic gains in energy efficiency and cost savings, our lighting solutions are revolutionizing the general lighting industry. Our high efficiency lighting systems provide several benefits including energy savings, improved lighting quality, life expectancies of up to 25 years, improved color, reduced flicker, and greater lumen output. Reduced maintenance & labor costs, and pollution reduction by consuming less energy and creating less CO2 and various other greenhouse gases are major considerations in upgrading to LED and intelligent smart lighting.

HVAC

R World Energy constantly seeks out the latest cutting edge technology to bring its clients the best possible solutions to reduce their cooling systems’ electricity consumption. We optimize rooftop HVAC units, chillers, and retail refrigeration with startling results. After analyzing our clients’ cooling systems, we identify and develop solutions using a range of sophisticated software, intelligent retrofits, and revolutionary refrigerant enhancers. We are very strong in HVAC optimization, and typically can deliver impressive efficiency gains and achieve payback periods of 24-36 months if not sooner. Our solutions have long track records and most have been around for ten to twenty years.

By using cutting edge software that goes beyond your standard BAS or chiller monitoring system, we are able to optimize your chiller operations and achieve a minimal 15% cost reduction. While payback times vary depending on chiller size and utilization, paybacks are often 24 months or less.

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R World addresses air conditioning, heat pump, and refrigeration systems with an advanced retrofit, intelligent microprocessor brain and control system utilizing a proprietary algorithm that analyzes the compressor's operation, and enables it to maintain desired temperatures more efficiently. This retrofit system saves an average of 15% kWh usage and 10% KW demand, and is cost effective with a rapid ROI that is between 18 and 36 months.

The last piece in our arsenal is our refrigerant and heat exchange enhancer. This space age, patented product recently brought to R World clients is scientifically formulated to increase heat transfer in HVAC and refrigeration systems. Our refrigerant enhancer was originally developed by a DuPont chemist and was awarded a US Patent after 20 years of development and testing. Once installed, you will experience energy savings, lower maintenance costs, increased life of the equipment, and greater comfort. This time-tested, field-proven, and patented technology restores and preserves the efficiency of your A/C & refrigeration systems. Our enhancer reverses and permanently prevents the build-up of carbon, contaminants, and stagnant oils with a simple one-time installation. A major benefit includes an average 20% reduction in HVAC costs and a rapid payback!

Power (*conditioning, protection & savings*)

R World's major solution in this area provides a building-wide solution. R World's guarantee is simple: we will save you at least 10% in kWh, or your money back or pro-rated in 180 days after installation, period!

This product was first designed over 10 years ago to help protect electrical wiring from surge(s), down-line lightning strikes, and voltage spikes. Being part surge protector, it will eliminate most of the static electricity that can cause major damage to electronics. It helps protect electronics, industrial commercial machinery, and electrical wiring. At the same time, we save on the kWh (energy) consumed by improving the current (amps), voltage, and power factor, and reducing harmonics. It also lowers the demand factor without starving motors of electricity needed at startup. Unlike many competitors, it's an "open box" system; it can be adjusted and customized to meet your unique electrical system's needs. Also it is a passive device. In the event of a down-line lightning strike or surge, the unit will absorb the spikes and if the surge is catastrophic, the unit will sacrifice itself to protect and prolong the life of your expensive equipment (LED lighting, motors, computers, etc) by reducing the amount of heat generated.