

## Maintenance Plans Protect Your Investment

A consistent, planned maintenance schedule will uncover, diagnose and correct minor problems before they can become costly repairs.

We perform two levels of service to ensure your generator will be running smoothly when you need it!

### **Semi-Annual: comprehensive check of all generator components including:**

- Check/add lubricating oil
- Check radiator/cooling system
- Check fuel lines/hoses for leaks
- Inspect fuel vents for obstructions, check/clean fuel sediment bowl
- Check fuel/water separator (if applicable)
- Check warning lights illuminated, gauges/instrumentation function/faults
- Check fan belts for excessive wear, inspect/adjust tension
- Check governor belts for excessive wear
- Check battery charger, adjust if necessary
- Replace spark plugs, points, distributor cap and ignition rotor (if applicable)
- Check battery capacity, clean battery and apply anti-corrosion treatment to terminal
- Perform generator, generator end, ATS & component functional and safety check
- Run generator – under load when possible (customer authorization required)
- Conduct electrical frequency analysis and adjust if necessary

### **Annual: includes all of the above services as well as:**

- Replace fuel/water separator (if applicable)
- Change air filter as needed
- Perform on-site coolant analysis-test freeze point, nitrate levels, corrosion inhibitor levels
- Change lubricating oil and oil filter
- Replace spark plugs, points, distributor cap and ignition rotor (if applicable)

## CORPORATE HEADQUARTERS

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The Energy Solutions Company

CONFIDENT.  
CAPABLE.  
COMMITTED.

## Protect Your Investment



## Preventative Services

Kinsley can save you money while improving the reliability of your power system!

By adding our optional preventative services to your generator maintenance program you will keep your unit ready for an unexpected outage.

***Your insurance policy against the unexpected.***

Also serving you with locations in:

- Brewster, NY
- Albany, NY
- Syracuse, NY
- Buffalo, NY
- Wells, ME



The Energy Solutions Company



# To Keep Your Generator In Top Condition

## We Recommend The Following Services

### Warranties - One Time

*Reason:* Warranties offer the best protection against any problems with your Kohler Power System. For a small percentage of the purchase price we can offer extended warranties in addition to the standard one year parts and labor warranty insuring the reliability of your investment.

### Rodent Screening - One Time

*Reason:* Preventative screening ensures no rodent infiltration while also preventing leaves and debris from entering the unit. This minor investment in preventative maintenance can prevent major repair costs later on.

### Fluid Sampling - Yearly

*Reason:* Generators have three major fluids vital for engine performance, reliability and lifespan: fuel, oil, and coolant. Periodic fluid sampling and laboratory analysis can identify problems like water, bacteria, sediment in diesel fuel; particulate contamination in oil, and caustic breakdown of coolant before they contribute to generator failure and unit down time

### Block Heater Replacement - Every 2 Years

*Reason:* Lack of proper coolant conditioning, evaporation of coolant, chemical reaction of coolant, and constant operation in cold climates all contribute to shortened block heater life.

### Coolant Flush - Every 3 Years

*Reason:* Coolant in an engine over a period of time becomes acidic and will start to cause damage to internal parts. A coolant flush will remove this caustic coolant and replace it with fresh coolant. This will help extend the life of your generator engine and generator reliability.

### Remote Monitoring - One Time

*Reason:* Once remote monitoring is installed on your generator, it will run 24/7, collecting data, reviewing the data and providing instant alerts if there is a problem. The system sends instant notification via email or text and your technician will be able to assess the problem remotely, ensuring the right tools and equipment arrive on-site.

### Oil Level Regulator - One Time

*Reason:* Oil Level Regulators reliably and automatically maintain proper crankcase oil level in stationary, multi-cylinder engines without the need for continual attention. This is important during extended outages when generators can burn up to one quart of oil every ten hours.

### Load Bank Test - Yearly

*Reason:* Your generator is not designed to operate without running under load. Load bank testing will minimize “wet-stacking” on diesel generators (black oily smoking condition and build up of fuel residue in turbo units) and ensure that your unit will handle its full nameplate kW.

### Battery Replacement - Every 3 Years

*Reason:* Lead acid battery cells sulfate over time. After three years, reliability and power capacity greatly diminish.

### Belts and Hoses Replacement - Every 5 Years

*Reason:* Hoses and belts are made from rubber-based materials that deteriorate over time. This deterioration takes place on the inside and may not be detectable. Belts and hoses generally break down after five years.