

To keep hydraulic and lubricating oil as free of contaminants as possible, GE Energy offers a Lube Oil Conditioner for use with heavy-duty gas turbines. Through proprietary Balanced Charge Agglomeration™ (BCA\*) technology, a level of fluid purity unattainable by conventional filtration or centrifugal systems is now achievable. This advanced purification system continuously purifies oil to better-than-new condition, prevents the formation of lube oil varnishing, and removes pre-existing sludge and varnish from your lube oil system.

The Lube Oil Conditioner can provide a dramatic return on investment by improving plant uptime, reducing maintenance costs, extending the life of expensive capital equipment, and reducing fluid consumption and waste disposal requirements.

### Balanced Charge Agglomeration Technology

BCA technology works by passing contaminated fluid over a series of electrodes that carefully charge particles, both positive and negative, until the net charge is balanced. As charged particles mix, they attract and grow in size, making for easy removal with conventional filter cartridges. Due to its effectiveness at removing sub-micron particles that would otherwise pass freely through even premium-grade filters, this BCA-based system is a significant improvement over the finest mechanical filters. Traditional filtration fails to remove the vast majority of destructive particles circulating through high-performance machinery.

### Features

- Removes nearly all contaminants greater than 0.1 microns in size
- Removes pre-existing sludge and varnish
- Removes water from system
- Removes oxidation products
- Achieves water content functionality (up to 20%)
- Ensures that flow rates match GE specifications



### Benefits

- Improved plant uptime and production yields
  - Fewer unplanned outages and trips
  - Elimination of sticking servo valves
  - Reduced bearing wear
- Extended scheduled maintenance/teardown periods
- Elimination of flushing services and associated costs
- Extended oil life
- Reduced waste disposal requirements

### Applicability

Lube Oil Conditioner is applicable to all GE heavy-duty gas turbines.



### What is GE Energy's Balance of Plant Parts Offering?

GE Energy's Balance of Plant Parts offering provides energy users with a comprehensive selection of power plant parts, offering maintenance and modernization solutions for Balance of Plant equipment and turbine auxiliary systems. This program combines years of product application experience, design engineering skills, and strong sourcing relationships. It allows us to act as a quick and cost-effective single-source solution for your power plant procurement needs.

To learn more about this offering, contact your GE Energy sales representative or visit [www.ge.com/energy](http://www.ge.com/energy).

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