

GE Power & Water
Water & Process Technologies



Tackle Selenium Head On

ABMet, GE's Advanced Biological Metals removal system, provides a proven, reliable process to remove elevated levels of selenium, nitrate, and metals found in wastewater streams.

ABMet systems can achieve up to **99% removal of selenium** and discharge-treated effluent containing 5 ppb of selenium or less.**



imagination at work

Formulate a winning strategy

This simple, low-maintenance system uses biological filters, seeded with selected strains of naturally-occurring microorganisms, to produce a treated effluent that meets or exceeds the world's most stringent regulatory standards for selenium removal.

Now also available in an easy-to-install modular system, ABMet systems provide **unprecedented effluent water quality** for any location.

What ABMet can do:

- Remove selenium to <5 ppb** total selenium
- Complete Nitrate-N removal
- Treat flows from 5 to 5,000+ U.S. gallons per minute
- Handle selenium loads from 10 ppb to 10,000 ppb
- Operate over a broad temperature range (4–40°C) and does not require preheating of the water
- Does not require post-filtration to polish particulate selenium

What ABMet means to you:

- Low operation and maintenance costs
- Scalable design to accommodate any flow and future plant expansion
- Systems can be custom designed for specific needs or pre-engineered as modular units for lower-cost and quicker turnaround times
- Easy installation with modular system containing prefabricated bioreactor tanks and skid-mounted pump and control packages
- Modular approach allows for short execution timeline from order to a fully-operational system

Typical applications:

- Coal-fired power plants
- Mining operations
- Oil refineries
- Agricultural run-off sites
- Municipal water treatment facilities

GE offers innovative, patented, break-through technologies that solve the problems of metals in the areas of wastewater and sludge management. Our broad portfolio of proven chemical solutions, such as MetClear*, and equipment solutions, such as ABMet, is designed to help our customers solve their metals removal challenges, enabling them to effectively treat waste streams and to ensure regulatory compliance.



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**ABMet performance is based on incoming water characteristics and process controls.

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