

# ZEROS Processes

For over a decade, ZEROS (Zero-emission Energy Recycling Oxidation System) and its preceding technology has meant bioremediation and biohazardous remediation without incineration or atmospheric emissions. These processes, known to the industry as ZEROS and ZEROS Bio-Dynamics, were designed for cleaning oil spoils and other types of organic contamination.

The success of the ZEROS process without atmospheric emissions or pollution has led the developers of ZEROS to apply ZEROS' oxidation process to power generation and water purification. The ZEROS process results in complete sequestration of carbon dioxide, nitrous oxides, sulfurs, mercury, hydrocarbon particulates and other contaminants. This process gives power generation and utilities industries fuel diversity by using biomass, agricultural waste, scrap tires and coal waste to produce electricity with no adverse atmospheric emissions, while reducing dependence on imported hydrocarbon fuels.

## PROCESSES

**ZEROS Bio-Fuels** uses ZEROS to turn biomass into biodiesel and biogasoline with no emissions. Instead of growing corn for ethanol, ZEROS grows corn for cattle feed, and then converts the manure into sulfur-free diesel.

**ZEROS Power System** a configuration that allows the capture of 250% more BTUs per pound of fuel for power generation than is obtainable from the incineration process.

**ZEROS Hydro-X** captures hydrogen gas as an alternate fuel from water purification without any of the emissions normally associated with hydrogen extraction.

**ZEROS Crisis Response** safely responds to a pandemic such as BSE or Avian Flu.

**ZEROS Aqua-Dynamics** desalinates and purifies water at a rate of more than 20 million gallons per day using waste as fuel.

**ZEROS Bio-Dynamics** cleans contaminated soil by dry cleaning without thermally treating soil to remove hydrocarbon contaminants.

**ZEROS Bio-Refinery** is a combination of ZEROS Power System, ZEROS Aqua-Dynamics and ZEROS F-T liquid fuels.

