

## Electric Power Industry

**W**ith rising energy demands, complex environmental regulations, and heightened public awareness of environmental issues, power producers are finding it increasingly more challenging to meet the need for clean, affordable, and reliable energy. Since the 1970's, the experts at Zephyr Environmental Corporation have partnered with power generators in responding to these challenges, providing the full range of consulting and training services for complying with regulations promulgated under the CAA, CWA, RCRA, OSHA, NEPA, NHPA, ESA, TSCA, CERCLA, and SARA, as well as the rules of state and local programs. In addition, we help our power producers address the issues raised by international climate change agreements and pending domestic climate change legislation. Zephyr is an active member of the American Public Power Association, where we help its membership stay current on emissions control and environmental regulatory issues.



Zephyr provides the full range of air quality consulting services, including compliance auditing and planning, enforcement responses, regulatory applicability reviews, permitting, modeling, emissions control technology assessments, and expert testimony. We also provide the breadth of services needed to address other EHS requirements, including environmental site assessments; wetlands, endangered species, and cultural resources surveys and reviews; water discharge permitting; groundwater remediation; SPCC planning and certification; inventories of toxic releases; environmental management system development; and incident management, emergency response, and security planning.

Examples of the services Zephyr's experts have provided to the electric power industry include:

- PSD permit applications for two recently permitted, biomass-fired power plants, and a feasibility study for a third new wood-fired generating unit.
- PSD permit applications for two recently permitted pulverized coal-fired power plants and air quality permitting and dispersion modeling in support of another nine proposed coal-fired units.
- Siting support (including environmental site assessments, ecological impacts analyses, wetlands delineations, and Section 404 permitting) and air quality permit application development (including Class I area impacts modeling and negotiations with Federal Land Managers) for a plant that will manufacture powdered activated carbon for control of power plant mercury emissions.
- PSD permit applications, CEMS QA/QC plans, and quarterly electronic data reports for simple cycle and combined cycle gas turbine units at multiple sites, including units firing refinery gas and plant fuel gas.
- The projection of changes in power industry greenhouse gas and criteria pollutant emissions during the Renewable Portfolio Standard implementation period for the State of Illinois.
- SPCC Plan development, wastewater and storm water permitting, waste management unit closures, and soil and water remediation activities for a public power company and an independent power producer.
- Environmental management systems to improve operational performance and assure environmental regulatory compliance.
- Employee training in the areas of waste management, hazardous materials transport and handling, incident management, risk management planning, and emergency response for numerous municipal power companies and independent power producers.
- On-site compliance assistance.
- TSCA applicability evaluations for coal plants.

*Assisting clients worldwide with their EHS consulting, training, and data systems needs.*

