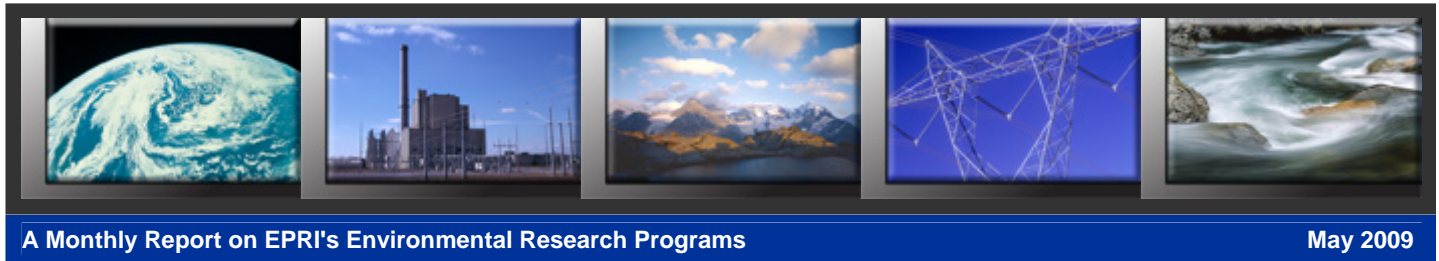


Environment Quick News



Program members can use their epri.com ID and password to download Acrobat PDF files of EPRI technical reports. For assistance, contact the EPRI Customer Assistance Center at (800) 313-3774.

Dear Environment Sector members:

There is never a dull moment in the environment business. When it seems like climate is the dominant issue and others pale in comparison, something else seems to pop up, adding more concern over how decisions at EPA will affect the electric power industry.

One of the latest issues to emerge is the cancer slope factor for inorganic arsenic. EPA is expected to announce a roughly twenty-fold increase in stringency for this factor, which would have dramatic impacts on several regulatory programs, including the drinking water standard, soil cleanup levels (for example, at substations), and water quality criteria (affecting wastewater discharges). EPA has been working with EPRI on a study to examine whether the cancer slope factor for inorganic arsenic is linear or whether there is a threshold below which arsenic exhibits no toxicity. This study is still under way, raising the question as to why EPA is moving forward at this time before the science is complete. The outcome will affect virtually every electric company in some way.

Another issue is the regulation of coal combustion products (CCPs). EPA is in the midst of a rulemaking process for the management of CCPs, with options ranging from continued management as a nonhazardous waste to a hazardous waste designation. EPRI is working with members, the Utility Solid Waste Activities Group (USWAG), and the American Coal Ash Association (ACAA) to provide information to EPA as the Agency moves through the regulatory process. Following a workshop in April and several webcasts, a series of projects has been developed to address near-term needs to inform the Agency. This issue has required us to delay some of our ongoing research in Programs 49 and 78 to start this new work. To fill the remaining funding gap, a Supplemental Project Notice has recently been issued. We encourage all of you with coal-fired assets to consider participation.

Let us know if you have any questions on either of these issues.

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Program 42: Air Toxics Health and Risk Assessment

EPRI Cosponsors Mercury Observation Station in China

With EPRI cosponsorship, the first sampling of mercury originating in India will begin early in July at a mountaintop observation station in southwestern China. There researchers will use a Tekran instrument to collect mercury wet deposition transported from India to China during the summer monsoon season. These measurements will fill a gap in the global mercury emissions inventory and will help researchers estimate the origins of mercury concentrations crossing the Pacific Ocean to the U.S. west coast. EPRI and the Canadian Department of Fisheries and Oceans are cofunding the Tekran instrument and its maintenance, while the Chinese Academy of Sciences and a local university are providing on-site support for data collection for at least 2 years. For more information, contact Leonard Levin, (650) 855-7929, llevin@epri.com.

Proposed New EPA Oral Cancer Slope Factor for Arsenic Is a Twentyfold Increase

EPA has been working on an update to the Integrated Risk Information System (IRIS) evaluation of the human cancer risk from oral exposure to inorganic arsenic (Toxicological Review of Inorganic Arsenic [CASRN 7440-38-2]). The EPA website suggests that a final IRIS evaluation will be completed by May 2009. According to a widely circulated copy of the draft final document entitled IRIS Evaluation for Inorganic Arsenic, the current cancer slope factor (CSF) of 1.5 per mg/kg-day would increase by a factor of twenty (thereby making resulting health and cleanup standards more stringent). If adopted, the proposed IRIS CSF will have dramatic impact on all of EPA's regulatory programs, including drinking water, ambient water quality criteria, and soil cleanup. For example, if no additional consideration for cost or technology were included, then the EPA Maximum Containment Level (MCL) for drinking water would have to be reduced from 10 ppb to 0.1 ppb for minimal compliance with the upper limit of EPA's target risk range. Concerns have been raised that EPA has chosen not to wait until all arsenic health research is complete, including research into the question of whether the CSF is a linear function or whether there is a threshold exposure below which no increased risk of health effects is evident. An ongoing EPRI study is examining this question. For more information, contact John W. Goodrich-Mahoney, (202) 293-7516, jmahoney@epri.com, or Sharan Campleman, (650) 855-2331, scampleman@epri.com.

EPRI Research Featured in Nature

A [recent story](#) in *Nature* cited EPRI-sponsored research conducted by Elsie Sunderland at Harvard University and colleagues, who suggest that microbes might use the surfaces of ocean-borne organic carbon particles to methylate mercury. For more information, contact Leonard Levin, (650) 855-7929, llevin@epri.com.

Program 91: Assessment Tools for Ozone, Particulate Matter, Regional Haze and Atmospheric Deposition

Emissions Inventory Research Highlighted at Workshop

Results from EPRI's Emissions Inventory Improvement project were presented at the Coordinating Research Council's On-Road Vehicle Emissions workshop, held recently in San Diego. The project is designed to improve the modeling tools and emission factor data used to create emission inventories, focusing on ozone and particulate matter precursors from the most uncertain emission sources. One presentation reviewed recent improvements to emissions factors used in the EPA MOBILE6 model. Another presentation described a fuel-based assessment of mobile source emission trends in the United States from 1997 to 2006. For more information, contact Stephanie Shaw, (650) 855-2353, sshaw@epri.com.

Program 92: Assessment of Air Quality Impacts on Health and the Environment

Rohr Speaks to Clean Air Scientific Advisory Council

EPRI's comments on the First External Review Draft of the Integrated Science Assessment for Particulate Matter were presented to the EPA Clean Air Scientific Advisory Council at its review meeting on April 1-2. The comments focused on

- the need to identify specific components within the PM mixture that are most harmful to human health, and

- the importance of non-PM copollutants, such as benzene and formaldehyde, in epidemiology studies.

Log onto EPRI.com and [click here](#) for a copy of the oral comments. For more information, see the [CASAC meeting website](#) or contact Annette Rohr, (650) 855-2765, arohr@epri.com.

GLOBAL CLIMATE CHANGE

[Visit the Global Climate Webpage](#)

Program 102: Global Climate Policy Costs and Benefits

Rose Presents at Pew Workshop on Assessing Benefits of Avoided Climate Change

The costs of reducing greenhouse gas emissions have received much attention from analysts and policymakers, but the benefits of reductions have been examined far less. The Pew Center on Global Climate Change hosted a workshop recently on Assessing the Benefits of Avoided Climate Change, at which EPRI's Steven Rose was an invited presenter. Dr. Rose's talk, "Federal Decision-Making on the Uncertain Impacts of Climate Change: Working With What You Have," discussed the climate-change-impact information needs of federal decisions and the decision-making challenges associated with using current scientific information. The talk concluded with fundamental principles and components of an analytical framework for developing and utilizing climate-change-impact information in federal decision making. Videos and slides of his and other presentations from the four panels are available at the [workshop website](#). For more information, contact Steven Rose, (202) 293-6183, srose@epri.com.

Program 103: Greenhouse Gas Reduction Options

EPRI Participates in International Conference in Brazil on Reducing Emissions from Deforestation and Degradation

EPRI's Adam Diamant participated in the Katoomba 2009 conference in Cuiaba, Brazil in April 2009. This conference brought together key organizations and individuals to discuss approaches to implementing projects and programs to reduce GHG emissions from tropical deforestation and forest degradation (REDD). The event featured expert presentations on the development of markets for REDD credits, biodiversity credits, and water quality credits. Diamant participated on a panel discussion on water quality trading and described the new EPRI supplemental project on "[Ohio River Basin Trading Program for Water Quality and Greenhouse Gases](#)" (1018855). Participants included the current governors of the nine Brazilian states in which the Amazon rainforest lies, along with representatives from Peru and Bolivia, the Brazilian Minister of the Environment, and other key individuals. A description of the conference is available [here](#). For more information, contact Adam Diamant, (510) 260-9105, adiamant@epri.com.

Global Climate Change Area News

Annual Global Climate Change Research Seminar Scheduled for May 20–21

The 14th annual Global Climate Change Research seminar will be held on May 20–21 in Washington DC. The seminars communicate the latest global climate research findings of interest to the electricity industry. For more information see the seminar [Event Sheet](#).

LAND AND GROUNDWATER

Program 49: Coal Combustion Products—Environmental Issues

EPRI Develops Focused, Short-Term Work Plan for Coal Combustion Product Management

EPRI hosted 31 senior industry executives and technical staff members at a two-day workshop on Sustainable Management of Coal Combustion Products (CCPs) held April 1–2 in Pittsburgh, PA. Based on participants' input at the workshop and in follow-up teleconferences, EPRI developed a scope of work and cost estimate for a near-term (2009) work plan, and is seeking supplemental funding for the research. The tasks in the work plan will provide scientific and technical data to help inform the upcoming EPA regulatory decision on CCPs. A proposed rule is scheduled by the end of 2009. The proposed tasks are detailed in a supplemental project

notice (SPN), Sustainable Management of Coal Combustion Products: Informing the Regulatory Process (1019334). For more information or to obtain a copy of the SPN, contact Ken Ladwig, (262) 754-2744, keladwig@epri.com.

Program 50: Manufactured Gas Plant Site Management

Reactive Cap Installation Under Way

On April 8, sponsors of the Reactive Capping supplemental project met for a status report on installation of a 10,000-square-foot sediment capping system in the Hudson River. With state and federal permits in hand, in late April engineers will install 75 TENSAR Marine mattresses, two-thirds of which will be attached to CETCO Reactive Core Mats®. The remainder will be filled with a sand/organoclay mixture. Those attending the project meeting at Central Hudson Gas & Electric Corporation in Poughkeepsie, NY observed fabrication of several of the reactive cap mattresses. After installation, engineers will monitor the cap for 18 months before its scheduled removal in fall 2010. Performance of the cap will guide further remedial action at the site. For more information, contact Jeff Clock, (845) 608-0642, jclock@epri.com.

EPRI Improves Method for Estimating Polycyclic Aromatic Hydrocarbon Releases From Stabilized Soil Leaching Assessment Methods for the Evaluation of the Effectiveness of In Situ Stabilization of Soil Material at Manufactured Gas Plant Sites (1015553). This report describes ongoing research to develop and demonstrate an improved method for estimating the release of polycyclic aromatic hydrocarbons from solidified/stabilized soil at former manufactured gas plant sites. For more information, contact Jeff Clock, (845) 608-0642, jclock@epri.com.

Improved Approaches Ensure Better Risk Management at Contaminated Sediment Sites

Improved Approaches for Predicting the Toxicity of PAH-Impacted Sediments to Benthic Macroinvertebrates (1018458). To ensure that site cleanup addresses only those sediments presenting unacceptable risk, EPRI has developed better methods for predicting the toxic response of benthic organisms to sediments contaminated with polycyclic aromatic hydrocarbons, as well as a tiered approach for managing contaminated sediment sites. For more information, contact Jeff Clock, (845) 608-0642, jclock@epri.com.

Program 59: Power Plant Toxics Characterization

EPRI Publishes Methodology for Estimating Ammonia Releases

Estimating Ammonia Emissions from Stationary Sources (1017985). This report provides a methodology for estimating ammonia releases that electric power plants burning fossil fuels may be required to report under the Environmental Protection Agency's Toxic Release Inventory program. For more information, contact Naomi Goodman, (650) 855-2193, ngoodman@epri.com.

WATER AND ECOSYSTEMS

Program 53: Water Quality Criteria Development and Assessment

Proposed New EPA Oral Cancer Slope Factor for Arsenic Is a Twentyfold Increase

See story under program 42 in Air Quality.

Program 54: Fish Protection at Steam Electric Power Plants

EPRI Will Reevaluate Research Needs Following Court Decision

On Apr. 1, the U.S. Supreme Court decided in *Entergy v. Riverkeeper* that EPA has the jurisdiction and authority to use cost-benefit analyses as part of Clean Water Act Section 316(b) permitting decisions. Past EPRI research has compiled information to support the cost-benefit analysis process (see [Benefits Valuation Studies Under &316\(b\) of the Clean Water Act: An Overview](#), 1012539). EPRI is reevaluating the need for additional research and information to support members on this issue. For more information, contact Doug Dixon, (804) 642-1025, ddixon@epri.com.

Updated Evaluation of Fine-Mesh Screens Published

Laboratory Evaluation of Fine-Mesh Traveling Water Screens for Protecting Early Life Stages of Fish at Cooling Water Intakes: Research Progress Update Through 2008 (1015578). This report is an update of report 1014021 and includes an additional year of data. For more information, contact Doug Dixon, (804) 642-1025, ddixon@epri.com.

Report Published on Factors Affecting Post-Impingement Survival

Literature Review and Laboratory Evaluation of Factors Affecting Adult, Juvenile and Larval Fish Survival in Fish Return Systems at Cooling Water Intakes (1016805). Knowledge of larval post-impingement survival from screen to discharge point in the receiving waterbody has potential application for generating companies seeking technologies to reduce entrainment losses at intakes. For more information, contact Doug Dixon, (804) 642-1025, ddixon@epri.com.

Program 55: Strategic Water Issues: TMDLs, Availability, Climate

Interest in Ohio River Basin Water Quality Trading Project Increasing

EPRI's first-of-its-kind Ohio River Basin trading project is an innovative market-based approach to achieving water quality standards by allowing emitters to purchase credits for nitrogen and phosphorus reductions from other sources. Because of the project's approach and regional scope, interest in and support for the effort are growing. More than 120 people attended a Mar. 26 public webcast on the project, the highest attendance ever noted at an EPRI webcast. Another 50 people attended a second webcast on Apr. 9; a third will take place in late June. In addition to obtaining support from EPRI members and other collaborators, EPRI has applied for grants from EPA and the Dept. of Agriculture and is optimistic about the likelihood of funding. EPRI has also begun discussion with two foundations. Any interested member can join EPRI's Water Quality Trading Focus Group. See the [project website](#) for more information on webcast dates, collaborators, the Focus Group, and project progress. For more information, contact Jessica Fox, (650) 855-2138, jfox@epri.com.

Report Published on Regional TMDLs for Atmospheric Deposition of Mercury and Nitrogen

Applicability of Regional Total Maximum Daily Loads (TMDLs) for Atmospheric Deposition of Contaminants: Mercury and Nitrogen (1015581). The characteristics of mercury and nitrogen emissions, speciation, deposition, and watershed processes were evaluated in order to determine the importance of atmospheric deposition to total waterbody loading and applicability of the regional TMDL approach to atmospheric deposition. For more information, contact Robert Goldstein, (650) 855-2593, rogoldst@epri.com.

New Project on Water Resource Trend Analysis and Implications for Power Industry

A new EPRI project will focus on identifying trends in water resource availability and quality and on providing a review of different factors that may lead to changes in these attributes. Case studies, developed from the literature and through basic analysis, will be used to document situations where a water resource or water quality change has been attributed to one or more factors, such as rapid land development, interbasin water transfers, impoundments of rivers, or modification of landscapes for agricultural use (e.g., wetland draining). Similarities and differences among various regions of the United States will be considered. The importance of water resource trends and the factors that cause them will be related to operational needs of the electric power industry, intersecting identified trends and major causative factors with the needs of various types of generation facilities operated by the electric power industry. For more information, contact Robert Goldstein, (650) 855-2593, rogoldst@epri.com.

Program 56: Effluent Guidelines and Water Quality Management

New Updates Available on Flue Gas Desulfurization Water

Six new Technical Updates have been published on various topics related to flue gas desulfurization (FGD) water characterization, management, and treatment.

- *Flue Gas Desulfurization (FGD) Water Characterization: 2008 Update* (1015588). This report updates the summary of available flue gas desulfurization (FGD) water discharge data from EPRI's 2007 work.
- *Evaluation of Selenium Species in Flue Gas Desulfurization Waters* (1015586). EPRI is studying the speciation of selenium in flue gas desulfurization waters and developing methods and tools to identify

selenium species that have not previously been characterized. This report provides interim results of that research.

- [Current Practices for Flue Gas Desulfurization \(FGD\) Water Management and Treatment in Ponds](#) (1016812). This report presents current management practices for managing flue gas FGD waste water in ponds. Topics include solids separation, pond surface area required to achieve total suspended solids limits, dredging practices, and reuse of dredgings.
- [Laboratory and Pilot Evaluation of Iron and Sulfide Additives with Microfiltration for Mercury Water Treatment](#) (1016813). This report presents the results of bench- and pilot-scale testing as well as a design evaluation for iron coprecipitation, organosulfide addition, and membrane filtration as technologies to be used in combination to treat mercury in FGD waste water to part-per-trillion levels.
- [Impact of Wet Flue Gas Desulfurization \(FGD\) Design and Operating Conditions on Selenium Speciation](#) (1017952). This report discusses results of a project to assemble and interpret selenium concentration and speciation data in waste water from wet FGD systems at U.S. coal-fired power plants.
- [Guidelines for Flue Gas Desulfurization \(FGD\) Water Sampling and Analysis](#) (1018223). This report will help owners/operators of coal-fired power plants to better characterize FGD wastewater.

For more information, contact Paul Chu, (650) 855-2812, pchu@epri.com.

Program 58: Waterpower

Workshop Addresses Revenue Optimization at Hydropower Projects

On Apr. 7–8, EPRI sponsored a workshop on Hydropower in a Carbon-Constrained Future: Application and Markets, hosted by Exelon in Mendenhall, PA. The workshop identified numerous opportunities for the hydropower industry to optimize revenue generation at hydro projects, including

- green power branding and marketing,
- project certifications,
- “low carbon” generation credits or payments,
- compliance with Renewable Portfolio Standards (RPSs),
- earning Production Tax Credits (PTCs), and
- obtaining advantageous financing under the federal Clean Renewable Energy Bonds (CREBs) program.

The workshop also identified hydropower research needs that EPRI can address, and possible opportunities for research involving EPRI, the industry, and the U.S. Dept. of Energy. For more information, contact Doug Dixon, (804) 642-1025, ddixon@epri.com.

Program 58 Research Open for Industry Input at WaterPower XVI Conference

In conjunction with the [WaterPower XVI Conference](#) scheduled for July 27–30 in Spokane, WA, EPRI will hold a workshop on July 26 at which any conference attendee can review and comment on EPRI’s waterpower research program. The objectives will be to gain wider industry input into EPRI’s waterpower program research scope, foster wider awareness of the program, and identify industry needs for additional future EPRI research. All areas of program research will be open for discussion. For more information, contact Doug Dixon, (804) 642-1025, ddixon@epri.com.

T&D ENVIRONMENTAL ISSUES

Program 51: T&D Facilities & Equipment: Environmental Issues

Environment Risk Management for Aging Infrastructure

In an April 9 webcast, EPRI described how it will help companies identify and manage risks to human health and the environment when aging transmission and distribution (T&D) infrastructure fails. EPRI is developing a relative risk model to help companies assess environmental and financial risks from aging equipment and to prioritize actions to minimize overall risk. Owners of aging T&D equipment will want to join this TC project, which is open to new participants. For more information, contact Mary McLearn, (650) 855-2487, mmclearn@epri.com.

Potential Impact of Climate Change on Wood Available for Utility Poles

Climate change might affect the availability of wood used for utility poles. Researchers will present a white paper on this topic at the mid-year joint meeting of programs 51 and 57 scheduled for July 8–9 in Charlotte, NC. Initial results suggest that habitats will shift for some species of trees traditionally used in pole fabrication. For more information, contact Mary McLearn, (650) 855-2487, mmclearn@epri.com.

Program 60: EMF Health Assessment and Radio-Frequency Safety

[Visit the EMF Health Assessment and RF Safety Public Webpage](#)

Kavet Addresses Chinese Audience on International Electromagnetic Field Exposure Standards

An audience from the State Grid Corporation of China and the China Electric Power Research Institute recently heard EPRI's Rob Kavet describe the "IEEE Standard for Safety Levels with Respect to Human Exposure to Electromagnetic Fields, 0–3 kHz," published in 2002 (IEEE Std C95.6™). The Institute of Electrical and Electronic Engineers (IEEE) standard specifies exposure limits for magnetic fields, electric fields, and contact currents. Kavet also discussed issues related to dose modeling, exposures in nonuniform magnetic fields, electric field exposures for workers in transmission towers, spark discharge exposures, and magnetophosphenes (visual perceptions caused by electrical stimulation of the retina). This session, which included presentations by other experts on contemporary EMF topics, followed meetings of the 5th International EMF Seminar in China: Electromagnetic Fields and Biological Effects, held April 17–19 in Hangzhou, China. For more information, contact Rob Kavet, (650) 855-1061, rkavet@epri.com.

EPRI Comments on a Study of Maternal Occupational Exposure to Magnetic Fields and Childhood Brain Cancer

Li P, et al. "Maternal occupational exposure to extremely low frequency magnetic fields and the risk of brain cancer in the offspring," *Cancer Causes Control*, advance online publication 2009 Feb 18; doi:10.1007/s10552-009-9311-5. EPRI evaluates the strengths and limitations of this study, whose authors report no strong associations between mothers' occupational magnetic field exposure and risk of brain tumors in their children. [Comments](#) are available on epri.com. For more information, contact Gabor Mezei, (650) 855-8908, gmezei@epri.com.

Gateway Information Services Available to EMF Health Assessment and RF Safety Program Members

EMF Health Assessment and RF Safety Program members are eligible to receive the latest information on extremely low frequency (ELF) and radio-frequency (RF) EMF research and events from Resource Strategies' ELF Gateway and RF Gateway.

ELF Gateway delivers information relevant to ELF EMF health research via e-mail and the ELF Gateway website. Participants receive news briefs covering new studies, health risk evaluations, media reports, regulatory actions, and key events. The service also includes summary semiannual reports. The Gateway website at www.rs-inc.com has a searchable database of ELF EMF information, a bibliography of research articles, and a calendar of events.

RF Gateway is a similar service that covers RF EMF. Electric power company employees may be exposed to RF fields through company use of RF and wireless technologies and during work near cellular antennas and other RF and wireless installations on or near electric power facilities.

To sign up for ELF Gateway or RF Gateway services, please contact Gail Lundell at (650) 855-7956 or glundell@epri.com. Your company may have as many employees on the Gateway membership list as you wish. Gateway materials may not be distributed outside your company.

Program 62: Occupational Health and Safety***EPRI Comments on Occupational Exposure to Hexavalent Chromium***

EPRI staff recently provided the National Institute for Occupational Safety and Health (NIOSH) with comments on NIOSH's [Criteria Document Update on Occupational Exposure to Hexavalent Chromium](#). EPRI technical report [Hexavalent Chromium Air Sampling Data from Welding and Steel Cutting: A Feasibility Study](#) (1016821) was used in the development of these comments. NIOSH uses criteria documents to communicate recommended standards to regulatory agencies and others in the occupational health and safety community. Criteria documents provide a critical review of the scientific and technical information about the prevalence of hazards, the existence of health and safety risks, and the adequacy of control methods. For more information or to obtain a copy of the comments, contact Gabor, Mezei, (650) 855-8908, gmezei@epri.com.

[For more information on the items below, contact John Novak, 202-293-6180, \[jnovak@epri.com\]\(mailto:jnovak@epri.com\).](#)

Webcast on Issues Affecting Coal Generation in the Obama Administration and the 111th Congress

The economic situation, the new President, and the new Congress—what does this all mean for coal generation? On Mar. 3, John Novak presented a webcast on “Issues Affecting Coal Generation in the Obama Administration and the 111th Congress.” The topics covered included

- key players in the Obama administration,
- key players in the 111th Congress,
- key legislative and regulatory drivers (the economy, energy independence and national security, and global climate change and other environmental issues)
- the stimulus bill, and
- DOE coal-related RD&D funding programs.

More than 60 members participated in the webcast, which was offered at two different times to maximize the number who could participate.

Ocean Energy Briefing for Senate Commerce Committee staff

On March 23, EPRI provided a briefing on ocean energy for Republican staff of the Senate Commerce, Science, and Technology Committee.

EPRI Participation in International Climate Meetings

From March 27 to April 3, John Novak participated in the United Nations climate meetings in Bonn, Germany. The meetings signaled the beginning of the negotiating phase in the development of an agreement for the 15th Conference of the Parties (COP-15) meetings in Copenhagen, Denmark, scheduled for December 7–18. This was the first climate meeting for the Obama Administration. Special climate envoy Todd Stern's opening statement (available at: <http://www.state.gov/g/oes/rls/remarks/2009/120974.htm>) received lengthy applause, but U.S. representatives spent much of their time dampening expectations that the United States will announce a commitment by December and that it alone can solve the issues in the Copenhagen process. During the meetings, John Novak gave an update on CO₂ capture and storage (CCS) activities in the United States at a sidebar event held by the International Electricity Partnership (IEP), which involves the electricity trade associations from Australia, Canada, Europe, Japan, and the United States. The event highlighted the launch of the IEP and the publication of a timeline for the development of CCS technology. The CCS timeline is the first element of a larger Roadmap for a Low Carbon Power Sector being developed by the IEP. The event was well attended and attracted numerous delegates.

Wave Energy Workshops

EPRI was selected by the DOE to assess the U.S. wave energy resource. To ensure that the EPRI assessment uses the best measurements and data and the best scientific practices for analyzing that data, EPRI held two workshops in Washington, DC: an Experts Group workshop on Apr. 13 and 14 and a Users Group workshop on Apr. 17.

Eurasia Group/National Intelligence Council Conference on CO₂ Capture and Storage

On Apr. 23, John Novak participated in a Eurasia Group conference on coal capture and storage (CCS). Eurasia Group is the world's leading global political risk research and consulting firm. The National Intelligence Council is a center of strategic thinking within the U.S. government, reporting to the Director of National Intelligence and providing the President and senior policymakers with analyses of foreign policy issues that have been reviewed and coordinated throughout the intelligence community. Novak gave a presentation on EPRI CCS activities. The conference included speakers from the International Energy Agency, American Petroleum Institute, DOE, and the Australian government.

New Supplemental Project Opportunities

Program 165: CO₂ Capture and Storage

- [CO₂ Capture for Combustion Turbine Combined-Cycle Plants: An Engineering/Economic Study](#) (1018789). EPRI will examine postcombustion capture on a combustion turbine combined cycle (CTCC) power plant for both new build and retrofit applications.

For a complete list of all active Environment Supplemental Project Opportunities, [click here](#).

New Marketing Communications

Environment Sector

- [Environment 2008 Annual Overview](#) (1018853)

Program 42: Air Toxics Health and Risk Assessment

- [Cardiovascular Outcomes as Critical Effects in the Regulation of Air Toxics Metals](#), Issue Brief (1018745)

Upcoming Events

* denotes EPRI sponsored or cosponsored event

Environment Sector

*** Environment Sector and Area Council Advisory Meetings**

Oct. 5–8, Boulder, CO. Contact: Adina Kozuh, (650) 855-2991, akozuh@epri.com.

*** Environment Sector and Area Council Advisory Meetings**

Mar. 15–18, 2010, Orlando, FL. Contact: Adina Kozuh, (650) 855-2991, akozuh@epri.com.

Air Quality

11th International Congress on Combustion By-Products and Their Health Effects

May 31–June 3, Research Triangle Park, NC. Contact: Annette Rohr, (650) 855-2765, arohr@epri.com. More information is available at the [event website](#).

9th International Conference on Mercury as a Global Pollutant

June 7–12, Guiyang, China. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

Air & Waste Management Association 102nd Annual Conference & Exhibition

June 16–19, Detroit, MI. Contact: Naresh Kumar, (650) 855-2990, nkumar@epri.com. More information is available at the [event website](#).

Gordon Research Conference on Atmospheric Chemistry

Aug. 23–28, Waterville Valley, NH. Contact: Eladio Knipping, 202-293-2691, eknippin@epri.com.

Twenty-First Conference of the International Society for Environmental Epidemiology

Aug. 25–28, Dublin, Ireland. Contact: Annette Rohr, (650) 855-2765, arohr@epri.com.

National Atmospheric Deposition 2009 Annual Meeting & Scientific Symposium

Oct. 6–8, Saratoga Springs, NY. Contact: Arnout Ter Schure, (650) 855-2753, aterschu@epri.com.

Air Quality VII Conference

Oct. 25–29, Arlington, VA. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

American Association for Aerosol Research 28th Annual Conference

Oct. 26–30, Minneapolis, MN. Contact: Stephanie Shaw, (650) 855-2353, sshaw@epri.com. More information is available at the [event website](#).

American Geophysical Union 2009 Fall Meeting

Dec. 14–18, San Francisco, CA. Contact: Stephanie Shaw, (650) 855-2353, sshaw@epri.com. More information is available at the [event website](#).

Land and Groundwater

9th International Conference on Mercury as a Global Pollutant

June 7–12, Guiyang, China. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

Air & Waste Management Association 102nd Annual Conference & Exhibition

June 16–19, Detroit, MI. Contact: Babu Nott, (650) 855-7946, bnott@epri.com. More information is available at the [event website](#).

**** Coal Combustion Product Research Mid-Year Meeting—Joint Programs 49 and 78***

July 21–22, Beltsville, MD. Contact: Ken Ladwig, (262) 754-2744, keladwig@epri.com.

Air Quality VII Conference

Oct. 25–29, Arlington, VA. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

**** EPRI MGP 2010 Symposium***

Jan. 27–29, 2010, San Antonio, TX. Contact: Jeff Clock, (845) 608-0642, jclock@epri.com, or Jim Lingle, (414) 355-5559, jlingle@epri.com. More information is available at the [event website](#).

Water and Ecosystems

9th International Conference on Mercury as a Global Pollutant

June 7–12, Guiyang, China. Contact: Leonard Levin, (650) 855-7929, llevin@epri.com. More information is available at the [event website](#).

Water and Ecosystems Summer Advisory Meeting

June 17–18, Holden, MA. Contact: Kent Zammit, (805) 481-7349, kezammit@epri.com.

American Fisheries Society Annual Meeting

Aug. 30–Sept. 3, Nashville, TN. Contact: Doug Dixon, (804) 642-1025, ddixon@epri.com. Doug Dixon is organizing a National Symposium on Fish Community Monitoring in Big Rivers during this meeting. More information is available at the [event website](#).

WaterPower XVI Conference

July 27–30, Spokane, WA. Contact: Doug Dixon, (804) 642-1025, ddixon@epri.com. More information is available at the [event website](#). EPRI will also hold a workshop on July 26 at which any conference attendee can review and comment on EPRI's waterpower research program.

T&D Environmental Issues

The Bioelectromagnetics Society 31st Annual Meeting

June 14–19, Davos, Switzerland. Contact: Rob Kavet, (650) 855-1061, rkavet@epri.com. More information is available at the [event website](#).

**** Mid-Year Joint Meeting of P51 (Transmission & Distribution) and P57 (Rights-of-Way)***

July 8–9, Charlotte, NC. Contact: Babu Nott, (650) 855-7946, bnott@epri.com. More information is available at the [event website](#).

**** 2009 EMF Scientific Advisory Committee Meeting***

July 20–21, Milwaukee, WI. Contact: Rob Kavet, (650) 855-1061, rkavet@epri.com.

International Society of Arboriculture 85th Annual Conference & Trade Show

July 24–29, Providence, RI. Contact: John W. Goodrich-Mahoney, (202) 293-7516, jmahoney@epri.com. More information is available at the [event website](#).

Ninth International Symposium on Environmental Concerns in Rights-of-Way Management

Sept. 27–Oct. 1, Portland, OR. Contact: John W. Goodrich-Mahoney, (202) 293-7516, jmahoney@epri.com. More information is available at the [event website](#).

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