

Energy & Mineral Law Foundation
Winter Workshops on Energy Law
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About the speakers . . .

John T. Boyd, II

John T. Boyd II is President and CEO of John T. Boyd Company (BOYD), an international mining, geological, and energy consulting firm headquartered outside Pittsburgh, Pennsylvania, with additional offices in Denver, Colorado; Brisbane, Australia; and Beijing, China. In addition to being an experienced lawyer on mining, environmental, natural resources, and regulatory matters, Mr. Boyd relies upon his finance background when performing comprehensive strategic, operational, and financial assessments, valuations, economic analyses, market forecasts, and sales agreement evaluations for BOYD's diverse client base. Mr. Boyd was formerly General Counsel for Sears Home Improvement Products, a manufacturing, sales, and installation subsidiary of Sears, Roebuck and Company, and an associate at Thorp, Reed & Armstrong representing corporate clients litigating commercial transactions, regulatory, environmental, and natural resources disputes. Recent publications include "Energy Policy Act of 2005," Energy and Mineral Law Foundation (2005), "The Policy of Mine Safety in the United States," China Coal Mine Safety Development and Production Symposium (2005), co-author of "Legal Implications of Mine Mapping Errors," 24 *Energy Min. L. Inst.* (2003), and co-presenter of "Playing the Cards You're Dealt: How to Keep Producing Coal Despite Mountaintop Removal Permitting Issues," Winter Workshops, Energy & Mineral Law Foundation (2003). Mr. Boyd earned a B.B.A. degree in Finance, *magna cum laude*, from The George Washington University and a J.D. degree from the University of Richmond.

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John Dodson

Mr. Dodson is a P.E. and graduate of both the US Military Academy and the Harvard Business School, with academic work at MIT and George Washington University in Engineering and Chinese Studies. He was a Combat Engineer building the road into the A Shau Valley in Vietnam and later served a tour as a Green Beret and finally a helicopter pilot, earning a Silver Star and several Bronze stars during the 1969-1973 period before returning to graduate school at Harvard. There he did a special project on the Petro-dollar recycling problem, and later created a course in Energy Policy while assigned as a professor at West Point. He was loaned to the Shah of Iran during the Revolution there to work in Teheran and was briefly captured and escaped to teach again at West Point in 1979. He constructed a small hydroelectric plant on a tributary of the Hudson River during this period under the PURPA , which he still owns, selling power into the grid now for over 16 years. With a partner he formed the Thayer Gate Energy, LLC, a non-profit formed to develop the MuniGrid, a surety microgrid based on wind, solar, biomass and fuel cells, utility size storage and an intelligent energy management

system. TGE has solar, wind, hydrogen development and HVDC transmission companies as members and is partnering the MuniGrid with Sandia National Labs, while under contract with the Army to determine a suitable prototype base.

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Vincent P. Duane

Vincent P. Duane, Vice President and General Counsel, heads the legal function at PJM and is responsible for advocating and defending the Organization's interests before the Federal Energy Regulatory Commission and providing counseling and transactional support to the core business units at PJM. Mr. Duane additionally serves as counsel and secretary to PJM's independent Board of Managers.

Prior to joining PJM, Mr. Duane was Vice President & Asst. General Counsel – Commercial & Regulatory at Mirant Corp. He also served as Vice President, Secretary & General Counsel at Southern Company Energy Marketing. Mr. Duane personally spent eight years practicing energy law at a firm in Washington, D.C., where he represented public power and industrial consumer interests.

Mr. Duane is a member of the American Corporate Counsel Association, Energy Bar Association and the Maryland State Bar Association. Mr. Duane earned a Bachelor of Arts in Political Science from McGill University, a Juris Doctor with Honors from University of Maryland School of Law and a Master of Science with Honors from Georgetown University, School of Foreign Service.

PJM Interconnection ensures the reliability of the high-voltage electric power system serving 51 million people in all or parts of Delaware, Illinois, Indiana, Kentucky, Maryland, Michigan, New Jersey, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia and the District of Columbia. PJM coordinates and directs the operation of the region's transmission grid, which includes 6,038 substations and 56,250 miles of transmission lines; administers the world's largest competitive wholesale electricity market; and plans regional transmission expansion improvements to maintain grid reliability and relieve congestion.

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David M. Flannery

David M. Flannery is a Member of Jackson Kelly PLLC, and heads the firm's environmental practice group. He is the Chairman of the Board of Directors of the firm's ancillary business subsidiary, Jackson Kelly Solutions LLC. His practice is focused upon the representation of companies and trade organizations in a variety of matters, including energy and environmental regulatory issues, facility siting, and the litigation of environmental enforcement and environmental tort cases at both the state and federal level.

Mr. Flannery serves on a number of state and national industry trade associations and environmental committees. He is a Member of the Executive Committee of the Board of Directors of the West Virginia Chamber of Commerce and served as Chairmen of its Board of Directors (2005-2006). He is also the Vice Chair of Energy Committee of the West Virginia Chamber of Commerce and served as the Chair of its Environmental Committee from 1982 to 2004. He is a Trustee of the Energy and Mineral Law Foundation. By virtue of an appointment by the Governor of West Virginia, he serves as a Commissioner to the Ohio River Valley Water Sanitation Commission (ORSANCO).

Mr. Flannery is admitted to practice in Kentucky and West Virginia, the Supreme Court of the United States of America, the D.C. Circuit and the Third, Fourth, Fifth and Sixth Circuit Courts of Appeal. In addition to his law degree, Mr. Flannery holds a B.S. in Electrical Engineering. Since 1991, he has been listed in Best Lawyers in America.

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Tony Gale

Mr. Gale is a principal consultant with Ecology and Environment, Inc. He is a PMI-certified (www.pmi.org) Project Management Professional (PMP) with over 17 years' experience in working on environmental, mining and oil and gas related projects including managing multimillion-dollar programs in the United States and abroad. As part of his responsibilities at Ecology and Environment, Inc. (E & E) he oversees a greenhouse gas emissions reduction and travel demand management program called GreenRide® (www.greenride.com) selected for use by large employers, metropolitan planning organizations, and transit agencies, and campuses in 16 states. He has written and presented several papers on the applications and benefits of sustainability transportation. He is also part of E & E's sustainability solutions team that offers web-based products and services relating to greenhouse gas emissions baselines and verifications, carbon offsets, energy efficiency, LEED® certification consulting, Environmental Management Systems, supply chain greening, green planning, sustainability roadmaps, stakeholder outreach, carbon management workshops, and sustainability reporting. Mr. Gale holds an M.B.A. (*cum laude*) in business administration, a MS in remote sensing (*summa cum laude*), and a B.S. (with high honors) in earth sciences.

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Thomas B. Glascock

Mr. Glascock, a partner in Thelen Reid Brown Raysman & Steiner LLP, has broad experience in energy and infrastructure project finance, acquisition, and development transactions, with an emphasis on representing sponsors, developers, lenders, and investors in a variety of energy and infrastructure financing transactions for both fossil

fired and renewable energy projects. Mr. Glascock serves as the co-chair of the firm's energy project development and finance and renewable energy groups.

Mr. Glascock is a member of ABA Committees on Commercial Financial Services and Developments in Business Financing and Subcommittees on Project Finance and the Solar Electric Power Association.

Mr. Glascock has been recognized by Euromoney as one of the World's Leading Project Finance Lawyers and one of the World's Leading Energy and Natural Resources Lawyers and is listed as a leading financing lawyer in the International Financial Review. Mr. Glascock has also been recognized by Chambers and the International Who's Who of Business Lawyers as one of the leading project finance lawyers in California.

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Freddi L. Greenberg

Freddi Greenberg has represented clients in connection with renewable energy projects since the late 1970s. Representative client projects have included over 100 landfill gas projects as well as wind generation, hydroelectric and waste-to-energy facilities. She also represents non-utility generators in connection with fossil fuel generation, including cogeneration.

Freddi founded her boutique energy law practice in Evanston, Illinois in 1983. She represents clients in connection with project development, including power sale contracts and contracts for the sale of renewable energy credits; as well as legislative matters and regulatory proceedings before the Federal Energy Regulatory Commission and state public utility commissions. Her clients include the Illinois Landfill Gas Coalition and the Midwest Independent Power Suppliers.

Freddi frequently speaks on topics related to the electric industry, including industry restructuring and renewable energy. Freddi is currently co-chair of the Meetings and Programs Committee of the Energy Bar Association and Reports Editor of the *Energy Law Journal*. She has served on the Board of Directors of the Energy Bar Association, and the Midwest Cogeneration Association of which she is a past president. She also has chaired the energy and public utilities law section council of the Illinois state Bar Association. She has authored the "Legal Brief" column in *Distributed Energy: The Journal for OnSite Power Solutions*; and authored a chapter on cogeneration, annually from 1987 to 1992, in *The Natural Gas Yearbook*.

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Sheila Slocum Hollis

Sheila Slocum Hollis is chair of DuaneMorris' Washington, D.C. office and serves on the firm's Executive Committee and Partners' Board. Ms. Hollis practices in the areas of energy transactional and regulatory law, and international and administrative law before government agencies, Congress and other entities. She specializes in domestic and international energy, water and environmental matters, representing governmental bodies and the power and natural gas industries. She was recently named one of the 50 Key Women in Energy worldwide and was a finalist for Lifetime Achievement in Energy in Platt's Global Energy Awards. Ms. Hollis is the first attorney in private practice to be nominated for the award. With a long career in issues relating to infrastructure, energy reliability, enforcement and compliance, and international energy policy, Ms. Hollis recently successfully represented the District of Columbia in a key electric reliability case and the Town of Plymouth, Massachusetts, in a vital nuclear plant relicensing and negotiation matter.

Ms. Hollis was the first director of the Office of Enforcement of the Federal Energy Regulatory Commission, establishing the office and its policies and procedures, serving from 1977 to 1980, and was a trial lawyer at the Federal Power Commission from 1974 to 1975. Those policies and procedures remain in place today. Over the course of her career, she has played a key role in the formation and implementation of energy law and policy.

Ms. Hollis is the chair of the Board of Editors of the American Bar Association's Council of the Fund for Justice and Education. She is the past chair (2001-2002) of the Section of Environment, Energy and Resources of the American Bar Association, representing 11,000 ABA members. She recently completed a three-year term as the Federal Circuit representative on the Standing Committee on the Federal Judiciary and was one of the two primary investigators for the Committee of Chief Justice John Roberts. She serves in the ABA's House of Delegates and served for several years on the Nominating Committee of the ABA. In addition, she served as chair of the Standing Committee on Environmental Law from 1997 to 2000 and served two terms as chair of the ABA's Coordinating Group on Energy Law. A Fellow of the ABA, Ms. Hollis serves on the Editorial Board of the *ABA Journal*. Ms. Hollis was the first woman to serve as president of the Federal Energy Bar Association (1991 to 1992). She served as president of the Women's Council on Energy and the Environment from 1997-2002. She is the first person to serve as both president of the Federal Energy Bar Association and chair of the ABA Section of Environment, Energy and Resources. She is a board member of the United States Energy Association and chairs its nominating committee. She also is a member of the Advisory Committee of the North American Energy Standards Board. Ms. Hollis served as a professorial lecturer in the law on the subject of energy law at The George Washington University Law School from 1979 to 1999 and was recently recognized by the school for her 20-year contribution. She serves on the Board of the American Friends of the Royal Society, which is one of the oldest scientific bodies in the world.

Ms. Hollis is a member of the American Law Institute and serves on the Board of Trustees of the Center for American and International Law and as vice chair of its Institute for Energy Law. She is also a trustee of the Energy & Mineral Law Foundation

and the Women's Bar Association. With an extensive background in international energy law, Ms. Hollis is admitted as an honorary, international member of the Commercial Bar of England and Wales. She is a member of the Energy, International, Women's and Federal bar associations and the Bar Association of the District of Columbia. Ms. Hollis is widely published in energy law and policy matters, having co-authored two energy law texts and numerous articles on energy policy, energy enforcement, natural gas, independent power and cogeneration, and hydroelectric energy regulation. She was ranked by the *National Law Journal* as one of the Nation's top 20 energy lawyers and is listed in *Who's Who in America*, *Who's Who in the World* and other biographical directories.

A Colorado native, she is a 1973 graduate of the University of Denver College of Law and a graduate of the University of Colorado at Boulder, *cum laude* in general studies, honors in journalism. She is admitted to practice in the District of Columbia and Colorado, the Supreme Court of the United States, the U.S. Courts of Appeals for the D.C. Circuit and the Fifth Circuit, the Superior Court of the District of Columbia and the Supreme Court of Colorado.

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Stephen Kalland

Steve Kalland, director of the North Carolina Solar Center, has over 12 years of experience in energy policy, particularly with renewable energy and energy efficiency. His current activities include directing the Solar Center's Policy Division as well as leading efforts to develop new research and programmatic opportunities for the Solar Center.

Previously, Mr. Kalland served as project manager with McNeil Technologies, Inc. of Springfield, VA. Areas of emphasis included renewable energy programs support for the Department of Energy, as well as work with several NGOs, foundations, private companies and state energy offices on energy, transportation, and climate change policy issues. Prior to joining McNeil, Mr. Kalland served as the director for Government Relations and Grid-Tied Markets at Xantrex Technology, Inc. (formerly Trace Engineering). Xantrex is based in Arlington, WA and Burnaby, British Columbia and is a leading producer of DC-to-AC power inverters, solar controllers, and other independent power systems and components.

Mr. Kalland is a past executive director of the Maryland-DC-Virginia Solar Energy Industries Association (MDV-SEIA), the regional chapter of the national Solar Energy Industries Association (SEIA). MDV-SEIA is a nonprofit trade association founded in 1984 to promote the economic application and public understanding of solar energy. Before that, Mr. Kalland was the director of State Programs and Policy Analysis at SEIA. Mr. Kalland also worked with the City of Rochester (NY) Department of Economic Development and the Council on Economic Priorities (CEP), a New York City-based think tank that tracks corporate "social responsibility" issues.

Mr. Kalland graduated in 1991 from the College of William and Mary in Virginia with a degree in Government and Psychology. In 1993 he received a master of science in Public Policy Analysis from the University of Rochester.

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Phillip G. Lookadoo

Mr. Lookadoo is a partner in Thelen Reid Brown Raysman & Stein LLP and works in their Washington, DC office. He represents parties involved in the transactional and regulatory aspects of the energy industry. Mr. Lookadoo's practice involves the negotiation and drafting of power purchase agreements, power marketing contracts (retail and wholesale), steam sales contracts, project acquisition agreements, joint development agreements, interconnection agreements, O&M agreements, and long-term and short-term gas purchase and transportation agreements. His practice includes negotiation and drafting of other fuel-related contracts including coal, rail, fuel oil, maritime shipping, tank farm, naphtha, peat, and ash removal contracts for power generation facilities.

He also represents companies before the Federal Energy Regulatory Commission (FERC) in both the natural gas and electric industries, including extensive experience with the FERC's development of open-access electric and gas transmission, QF and EWG issues, and market-based rate tariffs.

Mr. Lookadoo is also actively involved in the use of various forms of financial derivatives, including swaps, futures, and options, as a means of managing risk in energy marketing transactions and in powerplant development and financing.

Mr. Lookadoo has drafted and/or negotiated over one hundred power purchase agreements, fuel purchase agreements, and related transmission agreements in the United States. In addition, he has participated in numerous international transactions involving independent power project development, privatization of state-owned electric and hydrocarbon sectors, oil and gas exploration, pipeline development, and mining operations, as well as transactions with large state-owned utilities. Mr. Lookadoo has worked on transactions in the countries of Argentina, Australia, Bolivia, Brazil, Canada, Chile, China, Colombia, Dominican Republic, Ecuador, El Salvador, Guatemala, Guyana, India, Jamaica, Korea, Mexico, Morocco, New Zealand, Philippines, Sri Lanka, Uganda, United Kingdom and Venezuela.

Mr. Lookadoo received his J.D. from Emory University School of Law in 1980. He attended the University of Virginia where he earned an M.S. in Nuclear Physics and West Virginia University where he obtained his B.S. in Physics.

He is admitted to practice in the District of Columbia, Georgia, the U.S. Courts of Appeals for the Fifth, Eleventh, and District of Columbia Circuits, and the U.S. Patent and Trademark Office. He is a member of the Federal Energy Bar Association.

He is a frequent lecturer and writer on current issues in the energy industry, including:

“U.S. Developments In Electricity Trading Arrangements,” presented to The 2003 Conference of the International Bar Association (September 2003); “The California Energy Crisis: What Happened And How Are Industry And Government Responding,” presented to Section Of Environment, Energy And Resources of the American Bar Association (October 2001); “Forming Strategic Partnerships to Expedite Development,” Merchant Powerplant Development & Finance, Infocast (March 2000); “How Regulatory Policies Affect the Valuation of Generation and T&D Assets,” Energy Asset and Corporate Valuation, Infocast (January 2000). His publications include the article, “Municipal Preference and Private Hydropower Project Developer,” co-authored with Lee M. Goodwin, *Energy Law Journal. Natural Gas Regulation Handbook* (2nd Edition), published by Government Institutes.

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Ricardo Nogueira

Ricardo Nogueira is an Investment Adviser and Counsel at EEA Fund Management Ltd., based in Washington, D.C. Rick heads up EEA’s North American office. Rick is an attorney by training with extensive transaction expertise in the energy and environmental fields. At EEA, Rick leads deal flow origination in North and South America. In this role, he has acted as transaction management on several debt and equity investments on behalf of Trading Emissions and Leaf Clean Energy Company

Prior to joining EEA Rick was a senior attorney with the Washington, DC based law firm of Van Ness Feldman where his practice focused on climate change policy and transactions both under the Kyoto Protocol and in voluntary markets. Rick has also lived and worked in Brazil for three years while working with a leading local law firm where his practice focused on cross-border transactions, foreign investment and climate change matters. During that time he advised some of the first CDM projects and was a principal protagonist for an early effort to develop a Brazil specific carbon fund. Rick is fluent in both Portuguese and Spanish. He is frequently invited to provide training seminars on emissions trading and the CDM for a variety of organizations and has published articles on Managing Dispute Risks in CDM Transactions with the American Bar Association International Environmental Law Committee. Rick has an undergraduate degree in Anthropology from Lafayette College and a J.D. from Seton Hall University.

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Mark Ourada

Mark Ourada is National Vice President for External Affairs at the Center for Energy and Economic Development (CEED). Starting at CEED in 2005, Mark is a former four-term State Senator who served eleven years in the Minnesota State Senate. He served as an elected member of his caucus leadership team for two terms. From his earliest involvement in the Senate, Mark served on numerous committees, specializing in Transportation and Energy issues. He quickly rose to become a recognized leader in his

own caucus and across the aisle as a respected voice on energy issues, playing a pivotal role in major and comprehensive energy legislation in 2003.

His current work with CEED—whose core mission focuses on shaping state energy policies by engaging in issues such as ozone, mercury, regional haze and climate change—continues his commitment to expanding development of clean-coal technology to strengthen the entire nation’s energy future.

Mark has a background in sales, management, and received a bachelor’s degree in Political Science from St. John’s University, Minnesota. Mark has two daughters and makes his home in Buffalo, Minnesota just west of the Minneapolis metro area.

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David G. Ries

Mr. Ries is a partner in the Pittsburgh firm of Thorp Reed & Armstrong, LLP. He focuses his practice in the areas of environmental, commercial and technology litigation. He chairs the firm’s Technology Committee and has used computers in his practice since the early 1980s. Mr. Ries has more than 30 years of experience in these areas of litigation and has frequently lectured and written in this specialized area. He has recently addressed in his practice and teaching such current issues as admissibility of expert opinions, discovery of electronic evidence, environmental forensics, courtroom technology, information security and records management requirements.

Professionally he is active with many organizations, including: The Energy and Mineral Law Foundation (President); International Society of Environmental Forensics; National Ground Water Association; ASTM Committee E50 and Subcommittee E50.05 (developing standards for environmental forensics investigations); Air and Waste Management Association; International Technology Law Association; Information Systems Security Association; and Disciplinary Board of the Supreme Court of Pennsylvania (Hearing Committee Chair and Member 1997-2003).

Mr. Ries attended Boston College, graduating *Magna Cum Laude* in 1971 and later obtained his J.D. from Boston College as well. While there he was a member of the *Boston College Industrial and Commercial Law Review*.

Mr. Ries is admitted to practice in the Commonwealth of Pennsylvania, the U.S. District Court for the Western District of Pennsylvania, the U.S. Court of Appeals for the Third Circuit, the U.S. District Court for the Western District of Michigan, the U.S. Court of Appeals for the Sixth Circuit, and the U.S. District Court for the Eastern District of Michigan. He is a member of the Pennsylvania Bar Association (Environmental, Mineral and Natural Resources Law and Civil Litigation Sections); the Allegheny County Bar Association (Chair, Technology Utilization Committee, past Chair, Environmental Law Section; Member, Civil Litigation and Federal Court Sections); American Bar Association (TECHSHOW Board; Section of Environment, Energy and Resources,

Litigation Section, Law Practice Management Section, Science and Technology Law Section, and Information Security Committee).

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George A. Rusk

George A. Rusk, J.D. is a Vice President of Ecology & Environment Inc. (E&E) and has over 25 years' experience in environmental law. He specializes in the review and analysis of federal and state environmental legislation and regulations; obtaining permits and evaluating environmental impacts associated with wind, Liquid Natural Gas, wave energy, geothermal, solar, hardrock and coal mine development; assessing regulatory and legal issues impacting "Clean Coal" energy and sequestration projects; developing sustainable compliance programs to inventory greenhouse gas emissions, maximize energy efficiency in buildings and reduce GHG emissions from mobile and fixed sources; assessing and quantifying natural resource damages and developing restoration and compensatory mitigation programs; directing litigation support services including the development of alternative approaches to minimize impacts on headwater streams in valley fills associated with mountain top removal practices that address U.S. Army Corps of Engineers guidance and court rulings; responding to enforcement actions resulting from the release of hazardous substances; occupational safety and health; and hazardous and solid waste management, generation, storage, transport, and disposal. His wide range of responsibilities include involvement in project work in the United States and overseas.

Mr. Rusk directs Ecology and Environment, Inc.'s (E & E's) litigation support and environmental forensics practice. He works directly with outside counsel and E & E toxicologists, medical doctors, engineers, and other technical staff to provide focused technical support on contested matters. Project work he has directed includes:

- ∞ Development of proposed recommendations for the upgrade of environmental laws and regulations in foreign countries, including a program to remediate abandoned mine sites in Chile.
- ∞ Negotiation of penalties, consent orders, environmental impact assessments and stream restoration and remedial programs relating to spills of hazardous substances or pollutants;
- ∞ The development of integrated Geographic Information System (GIS) databases, contaminant dispersion maps, and demonstrative aids on large-scale toxic tort cases;
- ∞ Fact-gathering efforts, scientific research studies and literature reviews to identify relevant exposure standards, health effects and alternate causation theories on cases involving alleged chemical exposures and contamination from historic waste disposal practices.
- ∞ Development of allocation models to evaluate relative responsibilities of potentially responsible parties involved in cost recovery litigation.

Other responsibilities include coordination of matters involving regulatory agency proceedings; participation in legislative and adjudicative hearings; implementation and

oversight of due diligence site assessments and regulatory compliance audits; negotiation with agencies regarding the scope of remedial programs, fines, penalties, natural resource damage programs, and contaminant cleanup levels; and preparation of claims for environmental damage to international tribunals, including the United Nations Compensation Commission (UNCC). Mr. Rusk received his law degree from the State University of New York at Buffalo and his undergraduate degree in Political Science from Yale University.

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Kathy Trudell

Kathryn Trudell leads the marketing activities and strategy for the Environment Sector of the Electric Power Research Institute. Previously, Ms. Trudell served on both the Corporate Accounts Member Services Team and on the North Central Member Services Team for EPRI.

Before joining EPRI, Ms. Trudell conducted environmental impact and feasibility studies for several utility clients in the upper Midwest. Ms. Trudell has demonstrated expertise in the environmental aspects of utility facility siting and in environmental regulatory negotiations. She has also instructed utility and regulatory personnel on how to communicate complex information to a lay audience using risk communication techniques. Ms. Trudell managed sensitive public issues for Wisconsin Power & Light Company including electric and magnetic fields, indoor air quality, and radon exposure. She has conducted environmental awareness training for utility field personnel, construction managers, and utility management audiences.

Ms. Trudell received a B.S. degree in soil science and a B.S. in horticulture from the University of Wisconsin. She was awarded an M.S. degree in soil science with emphasis in soil genesis and natural resources from the University of Wisconsin. She has completed post-graduate coursework in conservation biology and natural system restoration, also at the University of Wisconsin. Ms. Trudell is coauthor of *Risk Communication for the Natural Gas Institute* and a number of associated documents that address communication strategies for various audiences.

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Dennis Welch

Dennis E. Welch is senior vice president, Environment, Safety & Health, and Facilities for American Electric Power. He is responsible for all of AEP's environmental, safety and health activities, including compliance with all federal, state and local regulations, as well as federal and state public policy initiatives and advocacy. Under his leadership, the company's commitment to sustainability advanced significantly, nationally and internationally, and was clearly defined in AEP's first Corporate Responsibility Report in

2007. He is based in Columbus, Ohio and reports directly to the Chairman, President and Chief Executive Officer.

American Electric Power is one of the largest electric utilities in the United States, delivering electricity to more than 5 million customers in 11 states. AEP is the nation's largest generator of electricity, owning more than 38,000 megawatts of generating capacity in the U.S. AEP also owns the nation's largest electricity transmission system, a nearly 39,000-mile network that includes more 765-kilovolt extra-high voltage transmission lines than all other U.S. transmission systems combined. The company owns and operates approximately 206,000 miles of overhead and underground distribution lines. AEP controls more than 7,000 rail cars, 2,300 barges and 53 towboats and operates a coal-handling terminal with 20 million tons of capacity.

Welch was previously president and chief operating officer of Yankee Gas & Yankee Energy System, an operating subsidiary of Northeast Utilities (NU) in Berlin, CT. He was named president and chief operating officer of Yankee Gas, Connecticut's largest natural gas distribution company, and Yankee Energy System in 2001. During his tenure at Yankee Energy, Welch chaired the Northeast Gas Association for two years, helping the industry trade association navigate through difficult times and a merger with the New York Gas Association. A 20-year veteran of NU, Welch served as vice president of Environmental, Safety & Ethics at NU for four years immediately prior to his position at Yankee Gas & Yankee Energy.

A native of New Albany, Ind., Welch earned a bachelor's degree in environmental, health and safety management from Indiana State University at Terre Haute and a master's degree in business and human resource management from the Hartford Graduate Center of Rensselaer Polytechnic Institute. He also completed the Executive Environmental Leadership Program at Yale University's School of Forestry and Environmental Studies.

Currently, Welch serves as AEP's voting representative to the national Center for Energy and Economic Development (CEED) Board of Directors and is AEP's primary representative to its Executive Committee. He also serves on the AEP Foundation Board of Directors and he represents AEP at the World Business Council for Sustainable Development.

Welch is chairman of the Finance and Operating Committee of Americans for Balanced Energy Choices (ABEC). He is also a member of the Center for Resilience Advisory Board at The Ohio State University and the Ohio Environmental Health Science Advisory Committee. He is a board member of the Greater Columbus Sports Commission. In addition to being past chairman of the Northeast Gas Association (NGA), he also chaired the NGA's Gas Supply Task Force. He also was a member of the Board of Directors of the American Gas Association (AGA), AGA's Leadership Council, and the AGA's Security, Integrity and Reliability Committee. He is immediate past chairman of the Research and Advisory Committee for the Electric Power Research Institute. He served on the University of Connecticut's Advisory Board for the School of Engineering and the Rensselaer Polytechnic Institute Advisory Board Nuclear &

Environmental Engineering. He is a former member of the Board of Trustees for The Nature Conservancy and a former member of the Connecticut Yankee Atomic Power Company Decommissioning Advisory Board, and the National Safety Council Public Utilities Executive Committee.

Welch lives in New Albany, Ohio, with his wife Elizabeth Monahan. He has a daughter, Danielle, who lives in Maryland.

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Janine Whitken

Janine Whitken of Ecology & Environment, Inc. has 23 years of experience shaping and implementing environmental standards and practices in government and industry. Ms. Whitken has been engaged in all environmental facets of developing, financing, constructing, and operating power plants using fossil fuels and biomass. Ms. Whitken leads multi-disciplinary teams on complex projects to obtain the permits needed for construction and operation. For NRG Energy, Inc., she is E & E's program manager for the environmental permitting associated with its 630 MW, integrated gasification combined-cycle (IGCC) plant in New York. For Process Energy Solutions, Ms. Whitken leads the effort to support and permits its gasification projects producing synthetic natural gas and hydrogen in Texas and New York. Ms. Whitken holds a Bachelor of Engineering Degree from Stevens Institute of Technology.

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