

## **The Honorable Ken Salazar | Secretary of the Interior**

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Ken Salazar, a fifth-generation Coloradan, was confirmed as the 50th secretary of the U.S. Department of the Interior on Jan. 20, 2009, in a unanimous vote by the U.S. Senate.

Prior to his confirmation, Salazar served as Colorado's 35th U.S. senator, winning election in November 2004 and serving on the Finance Committee, which oversees the nation's tax, trade, social-security, and health-care systems. He also served on the Agriculture, Energy and Natural Resources, Ethics, Veterans Affairs and Aging Committees.

As a U.S. Senator, Salazar was a leader creating and implementing a vision for a renewable-energy economy that is less dependent on foreign oil. He was involved in every major bipartisan legislative effort on energy since 2005, including helping craft the Renewable Fuels, Consumer Protection, and Energy Efficiency Act of 2007. Salazar also tackled the challenge of providing affordable health care by fighting to broaden the Children's Health Insurance Program and by working to improve health care for older Americans.

From 1999 to 2004, Salazar served as Colorado's thirty-sixth Attorney General, winning statewide elections in 1998 and 2002. He chaired the Conference of Western Attorneys General and received the Profiles in Courage award from his fellow state attorneys general for his dedication to preserving and promoting the rule of law.

As Colorado's attorney general, Salazar led efforts to make communities safer, fight crime, strengthen the state's sex offender laws, address youth and family violence, enhance and enforce Colorado's consumer protection laws, combat fraud against the elderly, and protect Colorado's environment. He established the first-ever Colorado Attorney General Fugitive Prosecutions Unit to apprehend and prosecute fugitive murderers, the first-ever Attorney General Gang Prosecution Unit, and an Environmental Crimes Unit.

Salazar worked for 11 years as a water and environmental lawyer with some of the top firms in the West. During his time in the private sector and as Colorado's Attorney General, Salazar worked on cases from the trial courts to the Colorado and U.S. Supreme Courts.

He received a political science degree from Colorado College in 1977, and graduated with a law degree from the University of Michigan in 1981. He also received honorary doctorates of law from Colorado College in 1993 and the University of Denver in 1999. Salazar and his wife, Hope, have two daughters, Melinda and Andrea, and one granddaughter, Mireya.

## **Dr. Larry Robinson | Assistant Secretary of Commerce for Oceans and Atmosphere**

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Dr. Larry Robinson was the vice president for research and a professor in the Environmental Sciences Institute at Florida A&M University (FAMU). Since 2001, he has served as director of the NOAA Environmental Cooperative Science Center (ECSC) headquartered at FAMU, which consists of a broad, multi-institutional consortium of predominantly minority-serving institutions. ECSC's multifaceted program has made a significant contribution to the promotion of diversity in the scientific workforce — especially within NOAA — due, in large part, to Dr. Robinson's outstanding leadership.

Between 1984 and 1997, Dr. Robinson served as a research scientist and a group leader at Oak Ridge National Laboratory. His work there included detection and assessment of special nuclear materials and application of nuclear methods in nonproliferation, environmental science, forensic science and the assessment of high purity materials. From 1997 to 2003, Dr. Robinson directed FAMU's Environmental Sciences Institute where he led efforts to establish bachelor and doctoral degree programs. In 2007, he became the first African-American to serve as the science advisor to the United States Department of Agriculture's Cooperative State Research, Education and Extension Service.

Dr. Robinson graduated summa cum laude with a bachelor's degree in chemistry from Memphis State University in 1979, and earned a doctorate in nuclear chemistry from Washington University in St. Louis in 1984.

**Sherburne Abbott** | Associate Director for Environment, Office of Science and Technology Policy, Executive Office of the President

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Sherburne “Shere” Abbott serves as the Associate Director for Environment of the Office of Science and Technology Policy in the Executive Office of the President. She manages a portfolio of S&T policy that ranges from energy and climate change to environmental quality and sustainability.

Prior to her confirmation for this position by the Senate on April 30, 2009, Ms. Abbott was a faculty member of the College of Liberal Arts at the University of Texas at Austin and served as the Director of the Center for Science and Practice of Sustainability in the Office of the Executive Vice President and Provost. Previously, Ms Abbott served as Chief International Officer of the American Association for the Advancement of Science. Prior to that appointment, over a 17 year period at the National Academies’ National Research Council she served as Executive Director of the Board on Sustainable Development, the Director of International Organization Programs for the Office of International Affairs, and the Director of the Polar Research Board of the National Academies’ National Research Council. Ms. Abbott also served as Assistant Scientific Program Director of the U.S. Marine Mammal Commission.

Ms. Abbott earned her A.B. from Goucher College and her M.F.S. from Yale University’s School of Forestry and Environmental Studies.

**John Amos** | President, SkyTruth

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John Amos is an expert in the use of satellite images and other remote sensing data to understand and communicate local, regional and global environmental issues. Educated as a geologist at Cornell University (BS) and the University of Wyoming (MS), he spent 10 years applying image processing, image analysis, and digital mapping techniques to conduct environmental, exploration and resource assessment studies for the energy and mining industries and government entities.

In 2001 he founded SkyTruth, a non-profit 501(c)(3) organization dedicated to strengthening environmental conservation by illuminating environmental problems and issues through the use of satellite images, aerial photographs, and other kinds of remote sensing and digital mapping. As President, he directs day-to-day operations, develops and manages projects and programs, and is responsible for fundraising and administration.

John and his wife Amy live in Shepherdstown, West Virginia.

**John Austin** | Nonresident Senior Fellow and Director, Great Lakes Economic Initiative, Brookings Institution

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John Austin, 47, is a Nonresident Senior Fellow with the Brookings Institution, as well as a Michigan statewide elected official, serving as Vice-President of the Michigan State Board of Education. Mr. Austin is also a Visiting Scholar with University of Michigan – Institute for Research on Labor, Employment and the Economy.

Mr. Austin currently Directs of the Great Lakes Economic Initiative for the Brookings Institution, designed to improve the economic vitality of the Great Lakes states. As part of this initiative Mr. Austin has authored key reports that have directly moved the region’s economic development agenda: “The Vital Center: A Federal-State Compact to Renew the Great Lakes Region;” “The Vital Connection: Reclaiming Great Lakes Economic Leadership in the Bi-National Great Lakes Economic Region;” and “Healthy Waters, Strong Economy: The Economic Benefits of Great Lakes Restoration.” (See [www.brookings.edu/projects/great-lakes.aspx](http://www.brookings.edu/projects/great-lakes.aspx)).

During recent years Mr. Austin served as Policy Director for Michigan’s Governor-appointed Commission on Higher Education and Economic Growth, and was principal author of the Commission’s report. He co-authored the influential report Revitalizing Michigan Cities, with Michigan Future, Inc., which led to Governor Granholm’s “Cool Cities” initiative, and has helped Michigan’s Department of Labor and Economic Development to reshape Michigan’s economic, workforce and urban development agenda. Austin has worked with city and state governments, federal agencies and officials, as well as national foundations, corporations and labor organizations on a wide variety of public policy issues.

Austin received his Masters in Public Administration from Harvard’s Kennedy School of Government, and a Bachelors from Swarthmore College in Economics & Political Science, Phi Beta Kappa. Mr. Austin has been married 21 years to his wife Terese. They and their three school-age children reside in Ann Arbor, Michigan.

**The Honorable Brian Baird** | U.S. House of Representatives (WA-03); Chairman, Subcommittee on Energy and Environment

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First elected to Congress in 1998, Congressman Brian Baird represents the Third District of Washington, which includes parts of the Pacific coast, the Columbia River, and the Puget Sound. Congressman Baird plays a leading role in crafting policies to research, explore, and conserve the oceans both as a member of the House Science and Technology Committee, and in his position of Chairman of the Energy and Environment Subcommittee. This spring, the House passed Congressman Baird’s bill to expand research on harmful algal blooms and hypoxia. Congressman Baird has also been a long-time advocate for educating Congress and the public

about ocean acidification. A licensed clinical psychologist, Congressman Baird received a Bachelor of Science in Psychology degree from the University of Utah, graduating Phi Beta Kappa in 1977. He went on to receive a Master's degree and a PhD in clinical psychology from the University of Wyoming.

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**Holly A. Bamford, PhD** | Acting Deputy Assistant Administrator, National Ocean Service, National Oceanic and Atmospheric Administration

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Dr. Bamford is currently the Acting Deputy Assistant Administrator of the National Ocean Service, NOAA. Dr. Bamford earned a B.A. in Business Management and Environmental Studies from Franklin and Marshall College, and an M.S. and Ph.D. in Environmental Chemistry from the University of Maryland. Dr. Bamford joined NOAA in 2002 as a senior member of NOAA's Office of Oceanic and Atmospheric Research executive scientific support team. She also served as the Program Coordinator for NOAA's Ecosystem Research Program. In 2005 Dr. Bamford became the Director of the newly formed NOAA Marine Debris Program with a mission to support efforts focused on preventing, identifying, and reducing the occurrence of marine debris and to protect and conserve our nation's natural resources, oceans, and coastal waterways from the impacts of marine debris. In January 2010 Dr. Bamford was selected to serve as Acting Deputy Assistant Administrator for NOS working on operational, programmatic, and policy issues. Dr. Bamford has received the NOAA Administrator's Award, the EPA Gulf Guardian Award, and the Coastal America Presidential Partnership Award.

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**The Honorable Mark Begich** | U.S. Senator, Alaska

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Senator Mark Begich was elected to the U.S. Senate in November 2008 after serving as the Mayor of Anchorage since April 2003. Born and raised in Anchorage, Senator Begich's priorities include focusing on a national energy policy that includes Alaska's oil and gas resources, an Alaska natural gas pipeline and the many renewable resources in Alaska. He is equally committed to improving the service and benefits for our nation's veterans who have served our country so honorably.

Since taking his seat in the Senate, Senator Begich has been appointed to the Senate Committee on Science, Commerce and Transportation, the Senate Committee on Armed Services, and the Senate Committee on Veterans Affairs. Senator Begich's service on the Commerce Committee includes assignments to the Subcommittee on Aviation; Subcommittee on Communications; Subcommittee on Competiveness, Innovation, and U.S. export Promotion; Subcommittee on Oceans, Fisheries, and Coast Guard; and the Subcommittee on Surface Transportation. In the Armed Services Committee Senator Begich serves on the Subcommittee on AirLand, the Subcommittee on Personnel, and the Subcommittee on Strategic Forces.

Senator Begich also is working with a group of moderate Democrats who want to find consensus on important issues and move legislation forward. In the recently passed American Recovery and Reinvestment Act, the group helped carve \$100 billion out of the bill to get rid of some of the excess and garner support for passage. The moderate Democrats also helped trim \$15 billion in non-defense spending from the recently passed Senate budget resolution. The group's goal is to support President Obama on his priorities of better health care, improved education, developing an energy plan and reducing the deficit.

In 1988, at age 26, Mark was the youngest person ever elected to the Anchorage Assembly where he served for nearly 10 years. During that time, his colleagues three times elected him chairman, Anchorage's second highest political office, and he also served as chair of the budget committee. During his time as mayor, Anchorage went through the biggest building boom in a generation, attracting millions of dollars worth of public and private investment. Through Begich's leadership, Anchorage voters supported the building of the new Dena'ina Civic and Convention Center, a \$100 million expansion of the Anchorage Museum of History and Art, and a multitude of other projects that strengthened the city's economy. In October 2008, both the Wall Street Journal and Business Week recognized Anchorage as a city well positioned to weather the international economic crisis and the city's bond ratings were upgraded due to improved fiscal stability.

Senator Begich is married to Deborah Bonito, a successful businesswoman. They have a young son, Jacob. The Begich family enjoys spending time together reading, traveling, and enjoying the many great things Alaska has to offer.

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**Ray Boswell** | Technology Manager for Methane Hydrates, National Energy Technology Laboratory, U.S. Department of Energy

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Dr. Ray Boswell currently serves as the Technology Manager for Methane Hydrates at the U.S. Department of Energy's National Energy Technology Laboratory. In this position, he is responsible for framing and directing a research program in partnership with industry, academia, DOE's National Labs, international research programs, and other federal. Prior to this position, he served as Technology Manager for Unconventional Resources Exploration and Production, with a focus on tight gas resources.

Dr. Boswell has a B.S. degree in Geology from the College of William and Mary and M.S. and Ph.D. degrees in Geology from West Virginia University. He began his career as a geologist for Chevron USA Inc., with emphasis on Gulf of Mexico oil and gas development. He has also lead integrated research teams in the assessment of tight gas resources in Appalachia, the Mid-Continent, and Mountain West basins. He has served as a co-chief scientist on for gas hydrate field projects in the Indian Ocean, on the Alaska

North Slope, and in the Gulf of Mexico.

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**Harry Brower** | Chairman, Alaska Eskimo Whaling Commission

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Harry Brower is a Whaling Captain from Barrow, Alaska. In addition to being the Chairman of the Alaska Eskimo Whaling Commission, Mr. Brower is the Deputy Director of the North Slope Borough Department of Wildlife Management, and sits on the Boards of the Alaska Beluga Whale Committee and the Alaska Ice Seal Commission.

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**Margaret R. Caldwell** | Executive Director, The Center for Ocean Solutions, Stanford University

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Meg Caldwell serves as the Executive Director for the Center for Ocean Solutions. She also directs the Environmental and Natural Resources Law & Policy Program at Stanford Law School, where her research and teaching focuses on the use of science in environmental and marine resource policy development and implementation as well as private and public incentives for natural resource conservation. She served on the California Coastal Commission from 2004-2007, including two years as its chairperson. While Chair of the Commission, Caldwell also served on the board of the California Coastal Conservancy. Since 2004, she has been a member of the California Marine Life Protection Act Blue Ribbon Task Force for the central, north central and south coasts and is currently serving on the Task Force for the north coast. Before joining the Stanford Law School faculty in 1994, Caldwell was an instructor at San Jose State University and the University of California, Davis; counsel for MicroCLEAN, Inc.; a member of the City of Saratoga Planning Commission; and an associate in the environmental law group of McCutchen, Doyle, Brown & Enersen. She earned her B.S. in Business Administration from the University of California at Berkeley and her JD from Stanford Law School.

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**The Honorable Mike Castle** | U.S. House of Representatives (DE-01)

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A former Deputy Attorney General, state legislator, Lieutenant Governor and two-term Governor of Delaware, Mike Castle is currently serving a record ninth term as Delaware's lone Member in the House of Representatives. Since coming to Congress in 1993, he has worked to bring the common-sense approach of Delaware's bipartisan legislating to Washington, D.C. He has been building bridges and forming coalitions to find pragmatic, bipartisan solutions to some of the most pressing problems facing the country and believes strongly in returning the Congressional agenda to issues that really matter to the American people.

Mike Castle has played a key role in enacting many important laws that improve the lives of all Americans, including welfare reform, the balanced budget act, the Crime Bill, No Child Left Behind, vocational education, campaign finance reform, medical research and intelligence reform. Castle consistently uses his leadership as a negotiator to improve legislation before it comes to the House floor, most recently ensuring important social programs like health and education do not suffer unnecessary funding cuts.

Castle is the ranking Member on the Subcommittee on Early Childhood, Elementary and Secondary Education and also serves on the House Committee on Financial Services, which has jurisdiction over banking and the securities and insurance industries. Among Castle's other priorities are rail and port security, environmental protection, Amtrak reform, immigration reform, medical and diabetes research, ethics and lobbying reform, reducing the price of prescription drugs, protecting Delaware's beaches, deficit reduction and implementing his vision to turn the Chesapeake & Delaware Canal into a recreational area for biking, hiking, fishing, and running.

Mike Castle is also a member of the Republican Main Street Partnership, which he co-founded in 1998 to promote thoughtful leadership in the Republican Party, to serve as a voice for centrist Republicans and to partner with individuals, organizations and institutions that share centrist values. Mike Castle was born and raised in Wilmington, Delaware where he currently lives with his wife Jane. He is a graduate of Tower Hill School, Hamilton College and Georgetown University Law School.

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**Dr. William Cheung** | School of Environmental Sciences, University of East Anglia

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William Cheung is Lecturer in Marine Ecosystem Services in the School of Environmental Sciences at the University of East Anglia, and is jointly appointed by the Centre for Fisheries, Environment and Aquaculture Science (Cefas). William completed his Ph.D. in Resource Management and Environmental Studies at the Fisheries Centre, the University of British Columbia (UBC) in 2007. He then worked as a post-doctoral fellow with the Sea Around Us Project at the UBC Fisheries Centre. The central goal of William's past and current research is to address the problems of (a) revealing how human activities and their induced environmental changes would affect marine ecosystems and the goods and services they provide; and (b) exploring options for human responses to such changes and their ecological, economic and social consequences. William's works have all been applied to solve practical conservation problems. Currently, he works on various interdisciplinary research projects that range from global- and basin- scale analysis to regional studies in the UK, China, West Africa, Australia and Canada. Examples of his recent research include projecting global impacts of climate change on marine biodiversity and fisheries potential, evaluating trade-offs of conservation/fisheries management policies in achieving ecological, social and economic objectives, and developing indicators to assess the vulnerability of marine ecosystems and species to fishing and climate change. William has been serving as a member of the IUCN Species Specialist

Group for Groupers and Wrasses since 2005.

**Ana Unruh Cohen** | Deputy Staff Director, U.S. House of Representatives Select Committee on Energy Independence and Global Warming

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Ana Unruh Cohen is the Deputy Staff Director of the Select Committee on Energy Independence and Global Warming. She has worked on a variety of energy and environmental issues, both on and off Capitol Hill, during her career. Prior to joining the Select Committee in 2007, she was the first Director of Environmental Policy at the Center for American Progress. She has also served a legislative aide to Congressman Edward J. Markey (D-MA), handling various issues pending before the Energy and Commerce Committee and the Natural Resources Committee. Dr. Unruh Cohen originally joined Congressman Markey's staff as the 2001-2002 Science and Technology Policy Fellow sponsored by the American Association for the Advancement of Science and the American Meteorological Society. She has a B.S. in Chemistry from Trinity University and received her Ph.D. in Earth Sciences from Oxford University, where she was a Rhodes Scholar.

**Michael Conathan** | Professional Staff, U.S. Senate Subcommittee on Oceans, Atmosphere, Fisheries, and Coast Guard

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Michael Conathan is a Republican Professional Staff Member of the U.S. Senate Committee on Commerce, Science, and Transportation's Subcommittee on Oceans, Atmosphere, Fisheries, and Coast Guard. Much of his work is done in support of Senator Olympia Snowe (R-Maine), the Subcommittee's Ranking Member in addition to the full Committee's Ranking Member Kay Bailey Hutchison (R-Texas). Mike has been with the Committee for over four years, serving as a Sea Grant Fellow prior to taking on a full time position in February of 2007. Ocean legislation enacted during his tenure has included the Magnuson-Stevens Fishery Conservation and Management Reauthorization Act, the Integrated Coastal and Ocean Observing System Act, the Federal Ocean Acidification Research and Management Act, and the NOAA Undersea Research Program Act. Prior to his work on the Committee, Mike received a Masters Degree in Marine Affairs from the University of Rhode Island, where he served as a faculty research assistant and was awarded a grant to travel to Denmark in the summer of 2004 in support of his thesis research on offshore wind energy development.

**Walter D. Cruickshank, PhD** | Deputy Director, Minerals Management Service

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U.S. Department of the Interior Walter D. Cruickshank has served as the Deputy Director of the Minerals Management Service (MMS) since 2002. He assists the MMS Director in the administration of programs that ensure the effective management of energy and mineral resources located on the nation's outer continental shelf, including the environmentally safe exploration, development, and production of oil, natural gas, and renewable energy, and the collection and distribution of revenues for minerals developed on federal and American Indian lands.

Dr. Cruickshank previously served as Associate Director for Policy and Management Improvement for MMS and has worked in the Department of the Interior for over 25 years. He received a Bachelor of Arts in Geological Sciences from Cornell University and a Doctorate in Mineral Economics from The Pennsylvania State University.

**Darren Deffner** | Manager of Environmental and Government Affairs, Pacific Gas & Electric Company

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Darren Deffner is a manager of environmental and federal affairs at Pacific Gas and Electric (PG&E), one of the largest natural gas and electric utilities in the United States, where he is responsible for leading and coordinating energy and environmental policy development on issues including smart grid, transmission, renewables, and hydropower.

Darren relocated to Washington, D.C., in 2008 from PG&E's office in Silicon Valley, where he focused on community engagement and partnerships with local electeds, business associations, environmental organizations, and other community groups. He also served as an adjunct professor at San Jose State University concentrating on energy and the environment as well as being a Board member of the Joint Venture Silicon Valley Network, Environmental Advisory Board of the Santa Clara Valley Water District, and Silicon Valley Environmental Partnership.

During his previous tenure in D.C., Darren was an aide in the United States Congress to Representatives Jane Harman, Lucille Roybal-Allard, Gerald Kleczka, and Anna Eshoo before moving to Silicon Valley to become Chief of Staff for San Jose Councilmember Ken Yeager.

Mr. Deffner received a Bachelor of Arts degree in political science from San Jose State University and a Master of Science degree in environmental sciences and policy from The Johns Hopkins University.

**William J. Douros** | West Coast Regional Director, Office of National Marine Sanctuaries, National Oceanic and Atmospheric Administration

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William J. Douros is the West Coast Regional Director for NOAA's Office of National Marine Sanctuaries. The Office of National Marine Sanctuaries protects and manages 14 special marine areas, ensuring the sustainable use of the ecological and cultural resources of those special places. Mr. Douros oversees the management and operations of the west coast region, which includes

over 12,000 square miles protected by five of the program's national marine sanctuaries. Mr. Douros joined NOAA in 1998 as the superintendent of the nation's largest national marine sanctuary, located in Monterey Bay, offshore of central California. Prior to that, he was the deputy director of the Santa Barbara County, California, Planning & Development Department where he was responsible for leading the division that regulated offshore oil and gas development projects in the county. In 1985, Mr. Douros received a Master's Degree in Marine Ecology from the University of California, Santa Barbara. His graduate work focused on intraspecific competition in populations of a large marine gastropod, the black abalone (*Haliotis cracherodii*). He received a Bachelor's degree in Environmental Biology from the University of California, Santa Barbara, in 1981. Mr. Douros lives and works in Monterey, California.

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**Dennis Duffy** | Vice-President of Regulatory Affairs, Cape Wind Associates, LLC

Dennis J. Duffy is the vice president of regulatory affairs of Energy Management, Inc. ("EMI"), a privately held company based in Boston with 25 years of experience in the energy business. As its name implies, EMI's original business was advising industrial energy users as to the conservation and optimal use of energy resources. The company has more recently focused on the development and operation of major energy facilities and, over the last decade, has raised \$1 billion in project capital and developed some of the most-efficient gas-fired generation plants operating in the United States. EMI has now sold all of its fossil-fueled units, however, and is focusing exclusively upon the wind sector of the energy market. Mr. Duffy is a graduate of the University of Rhode Island and Columbia University Law School, where he was Notes and Comments Editor of the Columbia Journal of Environmental Law. He was formerly a partner of the law firm of Partridge, Snow and Hahn and was Chairman of its public utilities practice group. Mr. Duffy is a member of Federal Energy Bar Association.

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**Staffan Ekwall** | Policy Officer, Baltic and North Sea Maritime Policy, European Commission Directorate General for Maritime Affairs and Fisheries

Staffan Ekwall has been working for the European institutions since early 1995, when his home country Sweden joined the European Community.

After having spent almost 5 years at the European Court of Justice in Luxemburg, he joined the department of fisheries of European Commission in Brussels in December 1999.

His main tasks within the field of fisheries related to international and regional affairs, where he regularly represented the European Union in various fora to negotiate various agreements with third countries. During that time, he was also looking after the EU's fisheries relations with the United States and Canada.

In 2009, Mr Ekwall joined the team tasked with the implementation of EU Maritime Policy in the Baltic and North Sea regions, and landlocked countries. This team is also in charge of and specialised in developing an EU wide policy on Maritime Spatial planning, a work in which Mr Ekwall is currently heavily involved.

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**The Honorable Sam Farr** | U.S. House of Representatives (CA-17)

Sam Farr, a fifth-generation Californian, represents the state's beautiful Central Coast, encompassing Monterey County's majestic Big Sur coastline, the Monterey Bay National Marine Sanctuary and the redwoods, mountains and beaches of Santa Cruz County.

Rep. Farr, known for his passion for ocean issues, has worked tirelessly to bolster the nation's land and ocean resources. He has introduced three major pieces of ocean legislation in the 111<sup>th</sup> Congress. The "Oceans Conservation, Education, and National Strategy for the 21st Century Act," also known as Oceans-21, would provide a comprehensive national ocean policy. The Southern Sea Otter Recovery and Research Act (H.R. 556) would allocate funds for recovery and research efforts and implement recommendations from the Sea Otter Recovery Team, and the Clean Cruise Ship Act (H.R. 3888) is targeted at preventing cruise ships from dumping untreated sewage, gray water or bilge water within 12 miles of the U.S. coast.

Rep. Farr has championed ocean policy reform since he came to congress in 1993. The 1998 National Oceans Conference, which took place in Rep. Farr's district, kick-started a movement to review the status of our ocean resources. He brokered a deal to pass the Oceans Act of 2000 to establish the U.S. Commission on Ocean Policy and formed the House Oceans Caucus to promote ocean issues and advance recommendations by the commission.

Rep. Farr authored a successful amendment to the Fishery Conservation and Management Act in 1995 that provided for the protection of essential fish habitat. He also sits on the powerful House Appropriations Committee where he has been a steadfast proponent of full funding for ocean protection and research initiatives.

Before coming to the House of Representatives in 1993, Rep. Farr served 12 years in the California State Assembly. In the State Assembly he authored the Californian Ocean Resources Management Act. He was also chair of the Council of State Governments "Oceans Task Force" made of the Western states and Pacific Islands and authored the Coastal Clean-Up law that has grown into a

worldwide event.

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**Captain J. J. Fisher** | Chief, Office of Policy Integration, U.S. Coast Guard

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Captain J.J. Fisher is assigned as Chief, Office of Policy Integration under the new Director, Assessment, Integration, and Risk Management, Assistant Commandant for Marine Safety, Security, and Stewardship, Coast Guard Headquarters, Washington, D.C. CAPT Fisher is responsible for enterprise-wide and external policy development, as well as coordination and review of interagency policy and plans. His office also serves as the Coast Guard point of contact to DHS' Office of Policy. Additionally, his office is responsible for cross- directorate integration of Oceans policy and planning efforts and the coordination of Headquarters policy and planning staffs

Captain Fisher is a native of Williamsport, Pennsylvania. He graduated from the U.S. Coast Guard Academy in New London, Connecticut in 1986 with a Bachelor of Science degree in Civil Engineering. In June 1988, he reported aboard USCGC OCRACOKE (WPB 1307) homeported in Naval Station Roosevelt Roads, Puerto Rico as Executive Officer. While aboard, Captain Fisher was involved in one of the largest seizures of cocaine in U.S. history at the time, as well as recovery operations in the aftermath of Hurricane Hugo.

Captain Fisher assumed command of USCGC VIGILANT (WMEC 617) in August 2004. During his tour, he was involved in several narcotics seizures, the rescue and interdiction of over 1,500 illegal migrants, nearly fifty search & rescue cases and participated in several international counter drug operations. VIGILANT also earned the coveted Battle 'E' for operational readiness while under his command.

Captain Fisher reported to the Joint Staff, Strategic Plans and Policy Directorate, J-5 in July 2005 where he has served as a strategic planner. While assigned to the Joint Staff, Captain Fisher represented the Chairman of the Joint Chiefs of Staff on a variety of maritime defense and security issues, most notably Maritime Domain Awareness (MDA) initiatives.

Captain Fisher's personal awards include the Defense Meritorious Service Medal, two Coast Guard Meritorious Service Medals, five Coast Guard Commendation Medals, two Coast Guard Achievement Medals, the Commandant's Letter of Commendation, and numerous unit awards.

He is married to the former Ms. Deanna J. Cometto of Huntington, WV and has two sons, Michael and Jacob.

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**Dr. F. Joel Fodrie** | Assistant Professor, Institute of Marine Sciences, University of North Carolina

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Dr. Joel Fodrie is an Assistant Professor of fisheries oceanography and ecology at the University of North Carolina at Chapel Hill, where he studies the population dynamics of fishes and shellfish. Dr. Fodrie works along all three major U.S. coastlines, examining: 1) how the dispersal of marine organisms connects populations and affects overall fishery productivity; 2) how food-web interactions within estuarine communities can be used inform ecosystem-based management approaches; and 3) how harvest pressure and climate variability have influenced the long-term population trends of fishery species (using multi-decade data sets).

Dr. Fodrie earned his Ph.D. in Oceanography from the Scripps Institution of Oceanography (2006; University of California, San Diego) and was a post-doctoral researcher at the Dauphin Island Sea Lab (Dauphin Island, Alabama) before moving to North Carolina. He has contributed 21 peer-reviewed articles that explore mechanisms of population variability for fishery species. These articles appear in journals such as Proceedings of the National Academy of Sciences, Ecology, and Limnology & Oceanography.

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**Captain Tim Gallaudet** | Deputy Director, Navy Task Force Climate Change, Office of the Oceanographer of the Navy

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CAPT Gallaudet was born in Hollywood, California in 1967 and graduated with distinction from the U.S. Naval Academy in 1989, receiving a Bachelor's Degree in Oceanography. He received a Master's Degree in Oceanography from Scripps Institution of Oceanography in 1991.

Between 1993-1995, CAPT Gallaudet served as Forecast and Command Duty Officer at the Naval European Meteorology and Oceanography Center, Rota, Spain, where he also served temporary duty assignments as the Assistant Sixth Fleet Oceanographer onboard USS LASALLE, and as Officer in Charge, Naval European Meteorology and Oceanography Detachment, Souda Bay, Greece.

After receiving a Doctorate in Oceanography from Scripps Institution in 2001, CAPT Gallaudet reported onboard USS KITTY HAWK (CV-63), which supported Operations Enduring Freedom in 2001 and Iraqi Freedom in 2003, for which CAPT Gallaudet was awarded the 2003 COMNAVAIRFOR Leadership Award.

In 2005, CAPT Gallaudet reported as the plank owner Commanding Officer of the Naval Oceanography Special Warfare Center, San Diego, where he was assigned additional duty on the staff of the Commander, Naval Special Warfare Command as the first Technical Special Reconnaissance (TSR) Officer in 2006.

CAPT Gallaudet is presently assigned to the Chief of Naval Operations staff under the Oceanographer of the Navy and resides in North Beach, Maryland with his wife Caren, a 1991 graduate from the U.S. Naval Academy and former Navy Diver, and daughters Laurel, Aspen, and Cedar.

**Curry Hagerty** | Specialist in Energy and Natural Resources Policy, Congressional Research Service

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Curry has over 15 years of increasing responsibility as an energy and environmental lawyer, advising private sector and government clients on regulations and legislation, project management, litigation, marine and coastal programs, analysis of state and federal oil and gas leasing for offshore oil and gas & renewable lease sales. She has worked on mitigation of military and environmental impacts, and interpretation of EA/EIS and other marine studies and reports. Curry currently is a Specialist in Energy and Natural Resources Policy in the Resources Science and Industry Division of CRS at the U.S. Library of Congress. In her most recent position prior to CRS, she was a Program Analyst at the Department of the Interior from 2006-2009. Prior to that she served as a staffer and as Deputy chief of staff for the House Energy and Commerce Committee. She graduated from Catholic University of America in Washington D.C., first in 1984 with a BA, then in 1989 with a J.D.

**Marilyn Heiman** | Director, U.S. Arctic Program, Pew Environment Group

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Marilyn Heiman, Director, U.S. Arctic Program at the Pew Environment Group, has worked on natural resource policy issues for 27 years. She was formerly the campaign manager of the International Boreal Conservation Campaign, an international effort to protect one of the largest remaining forest ecosystems remaining on Earth. She was appointed by Interior Secretary Bruce Babbitt as his top Alaska policy advisor in 1999. In that capacity she coordinated activities of the Bureau of Land Management, the Minerals Management Service, the National Park Service, the Bureau of Indian Affairs, the U.S. Fish and Wildlife Service and the U.S. Geological Survey for the Secretary in Alaska. As Alaska representative to the Department of Interior, she served on the six-person Exxon Valdez Oil Spill Trustee Council. Prior to holding that position she served as special assistant on Natural Resources and Oceans to Governor Tony Knowles in Alaska and served as the director of his statewide transition team following his election in 1994. She worked as an aide to the House Resources Committee in the Alaska Legislature as the lead House staff on the Exxon Valdez oil spill legislative package and has run for office and worked on several statewide electoral and policy campaigns in Alaska. She lives in Seattle where the U.S. Arctic program office is located and serves on the Puget Sound Keeper Alliance Board and the Boreal Songbird Initiative Board.

**Dr. Gretchen E. Hofmann** | Professor, University of California, Santa Barbara

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Dr. Gretchen Hofmann is an eco-physiologist whose research focuses on the effects of climate and climate change on the performance of marine species. In particular, her recent work investigates the impact on marine organisms of rising atmospheric CO<sub>2</sub> concentrations via ocean warming and ocean acidification. Dr. Hofmann studies how such environmental changes influence the regulation of mechanisms within the body that impact development, physiology, geographic distribution and survival.

To study the effects of temperature on physiological performance Dr. Hofmann has conducted research at broad geographic scales examining species across climates, information which may also be used as a proxy for predicting the response of organisms in one location through time under climate change scenarios. She has also done extensive work in Antarctica studying marine fishes and invertebrates that are highly evolved to polar climates and may be particularly sensitive to ocean acidification. Her research has explored the specific temperature responses of these polar organisms, and identified physiological mechanisms which these and other more temperate species may employ in response to stresses in their environments.

Dr. Hofmann is involved in research on ocean acidification, or the gradual reduction in ocean pH by the seawater's uptake of atmospheric CO<sub>2</sub>. Recent government reports project ocean acidification to increase over the next century and have significant impacts on shell-forming organisms as they build and maintain their hard parts such as shells and skeletons. However the overall physiological response that organisms will have under these "acidified" seawater conditions is still being determined. Studies by Dr. Hofmann and her collaborators are identifying key developmental challenges for the sensitive larval stages of marine species in acidified waters, and gene pathways that may play a role in those processes. She is also investigating the combined effects of temperature and acidity, in order to better understand how marine species will cope with the dual challenges of global warming and ocean acidification in the coming century.

Dr. Hofmann is a Professor in the Department of Ecology, Evolution and Marine Biology and the University of California, Santa Barbara. She is the Director of the Center for the Study of Ocean Acidification and Ocean Change, a UC-multicampus initiative (<http://oceanacidification.msi.ucsb.edu/>). She currently serves on the NRC Ocean Acidification Committee, and on the Ocean Acidification Task Force, organized by the Ocean Research and Resources Advisory Panel (ORRAP). Dr. Hofmann is a member of the U.S. National Science Foundation's Office of Polar Programs Advisory Panel (<http://www.nsf.gov/od/opp/advisory.jsp>).

**Will Hopkins** | Executive Director, Cobscook Bay Resource Center

Will Hopkins is the Executive Director and founder of the Cobscook Bay Resource Center, based in Eastport, Maine. The Center's mission is to encourage and strengthen community-based approaches to resource management and sustainable economic development in the Cobscook Bay region, the Bay of Fundy, and the Gulf of Maine. During his fifteen years in sustainable community development Will has worked to facilitate safe and trusted processes of information-sharing and decision-making for relevant and affected parties dealing with a broad range of issues.

Will helped local fishermen organize the Cobscook Bay Fishermen's Association and develop scallop conservation plans for the Bay. He was principal investigator of a five year field study mapping the currents in Cobscook Bay. Data from the study was used by the Electric Power Research Institute to evaluate which sites would be best suited for a tidal power demonstration project. In 2007 the Resource Center launched a Renewable Energy Initiative to facilitate conversations among Cobscook residents, project developers and representatives of various community interests regarding local tidal energy projects. Will has worked to reduce and resolve conflicts between fishermen and project developers over areas proposed for the siting of turbines.

Will also participated in the creation of the Northwest Atlantic Marine Alliance, served on the Governor's Task Force on the Planning and Development of Marine Aquaculture in Maine, was a member of the State of Maine delegation to Japan to study the Japanese scallop industry, and was a charter member of the New England Grassroots Environment Fund. He recently participated in an exchange program to the Middle East sponsored by the U.S. State Department designed to develop strategies for community-based natural resource management.

**Dr. Ted G. Johnson** | Director of Alternative Energy Programs Development, Lockheed Martin

Dr. Ted Johnson is presently Director of Renewable Energy Program Development at Lockheed Martin's New Ventures Organization, where one of his areas of responsibility is the development of the Ocean Thermal Energy Conversion (OTEC) business. Ted's history in OTEC goes back to when he assumed the leadership of the heritage Lockheed Ocean Systems Division in Sunnyvale, California in the late 1980s. Previously, Lockheed's Ocean Systems Division had built and successfully tested the Mini OTEC system off of the Hawaiian Islands. Ted continued to direct work on OTEC and several years ago launched a major effort in Lockheed Martin to accelerate OTEC development and commercialization as a base load green renewable energy generation technology.

Ted has assembled a team of OTEC experts, companies, and universities to develop a large scale OTEC Pilot Plant as the next step in the commercialization of OTEC. The team has focused on the application of modern day technology from other fields to develop a "New Millennium" OTEC system that promises to be more efficient and economical to develop and build leading to the realization of large scale commercial size OTEC plants. Other energy related work that Ted has been involved in while at Lockheed Martin includes wave energy systems, fuel cells, and biofuels.

Prior to this, he held a number of assignments in Lockheed Martin, including Homeland Security Director, Director of Adjacent Markets, and Director of International Oceans business. Before joining Lockheed Martin, he held a number of assignments with Honeywell, Inc. where he started out as a Senior Principal Research Scientist at the Honeywell Corporate Research Center.

Dr. Johnson is a member of the Ocean Energy Council, OREC, Geothermal Research Council and the National Hydropower Organization. Ted holds a Doctor of Science Degree from Northwestern University. Dr. Johnson received the Ocean Energy Pioneer Award in 2009 for his role in the development of OTEC technology.

**Michael Kearns** | Director, External Affairs, National Ocean Industries Association

Michael Kearns is the Director of External Affairs at the National Ocean Industries Association (NOIA). NOIA is the only national trade association representing all segments of the offshore energy industry. The NOIA membership comprises over 300 companies engaged in activities ranging from drilling to producing, engineering to marine and air transport, offshore construction to equipment manufacture and supply, geophysical surveying to diving, and ocean-based renewable energy to finance.

Michael works as an advocate on behalf of NOIA and its member companies before Congress and the Administration, seeking laws, regulations and policies that will support and enhance reliable access to the nation's valuable offshore hydrocarbon resources in order that they may be developed, produced and supplied in an environmentally responsible manner.

Michael joined NOIA originally as Director of Public Affairs, where he led the Association's communication efforts by liaising with members of the national, local and specialized trade press. He has worked with, or been quoted by, reporters from such outlets as The New York Times, The Wall Street Journal, The Oil Daily, Oil & Gas Journal, American Oil and Gas Reporter, USA Today, The Houston Chronicle, The New Orleans Times-Picayune, Agence France Presse, and the Christian Science Monitor.

Prior to joining NOIA, Michael was a member of the staff of the Congressionally-created U.S. Commission on Ocean Policy, where he served as Special Assistant to the Executive Director and Assistant Project Manager. On September 20, 2004, the U.S. Commission

on Ocean Policy made recommendations for a coordinated and comprehensive national ocean policy to the President and Congress. The Commission's final report, "An Ocean Blueprint for the 21st Century," contains 212 recommendations addressing all aspects of ocean and coastal policy and continues to be used widely by policymakers working to halt the steady decline of our nation's oceans and coasts.

Michael has also worked at the Center for Strategic and International Studies and at the Advisory Board Company.

Michael is a member of the Public Relations Society of America, and graduated from Georgetown University's College of Arts and Sciences in 1993 with a degree in Government and History.

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**Dr. Willett Kempton** | Professor, College of Earth, Ocean, and Environment; and Director, Center for Carbon-free Power Integration, University of Delaware

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Willett Kempton is trained as a cognitive anthropologist and electrical engineer. He serves as Director of the Center for Carbon-free Power Integration, and is Professor in the College of Earth, Ocean, and Environment, University of Delaware, also is Professor in the College of Electrical and Computer Engineering.

Kempton directs several research projects, is active in public testimony, and lectures widely on offshore wind.

In addition to wind power, Dr. Kempton has published on electric transportation, the beliefs and values that citizens and policymakers apply to environmental issues, cognitive and behavioral aspects of energy efficiency, and factors which move citizens to environmental action.

Kempton works with industry in these areas. He serves as Chair of the R&D Subcommittee of the Offshore Wind Working Group of the American Wind Energy Association. He is co-organizer of the Mid-Atlantic Grid Interactive Cars Coalition, a group of electric and automotive companies.

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**Kim Knowlton, DrPH** | Senior Scientist, Natural Resources Defense Council

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Kim Knowlton is Senior Scientist with the Health and Environment Program at the Natural Resources Defense Council, where she leads NRDC's Global Warming and Health Project. She is Assistant Clinical Professor in the Department of Environmental Health Sciences at the Mailman School of Public Health, Columbia University; and co-chair of the Global Climate Change and Health Committee of the Environment Section at the American Public Health Association. Her research has addressed the health costs of climate-sensitive events; heat- and ozone-related mortality and illness; climate change's effects on pollen, allergies and asthma, and infectious diseases; and climate-health preparedness in vulnerable communities. She attended Cornell University and Hunter College/CUNY, and received a doctorate in public health from Columbia University, where she was a postdoctoral research scientist and a Mellon Foundation Teaching Fellow at Barnard College before joining NRDC. She was among the scientists participating in the IPCC Fourth Assessment Report.

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**Steven R. Kopf** | Partner, Pacific Energy Ventures

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Mr. Kopf is a partner in Pacific Energy Ventures, a consulting and business development firm specializing in strategic marketing, project management, governmental affairs, and policy in the renewable energy sector. With twenty years of business development experience in the energy and transportation sectors, he has a proven track record of leading early-stage technologies and new businesses from concept to commercialization. Kopf's expertise lies in developing public-private partnerships to advance new concepts in emerging markets. PEV is working with the leading wave and tidal energy companies to develop demonstration projects the needs of resource agencies, environmental and conservation groups, tribal governments, existing users, and local citizens.

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**Joe LaClair** | Chief Planning Officer, San Francisco Bay Conservation and Development Commission

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As BCDC's Chief Planning Officer, Mr. LaClair directs and supervises the Commission's planning program, serves as technical advisor to the Commission and staff and provides liaison with governmental and private agencies on planning matters. He holds a Bachelor of Arts degree in Economics from the University of Oregon, and a Masters in Landscape Architecture and a Masters in City and Regional Planning from the University of California at Berkeley. He joined BCDC's staff in 1992 as the Bay Design Analyst. In 1997, he was appointed Senior Planner. In 2007, he became BCDC's Chief Planner. Currently, Mr. LaClair is overseeing the Bay Plan policy project to address climate change and sea level rise and is a staff liaison to the regional Joint Policy Committee, focusing his efforts on implementing the Bay Area's regional climate change strategy.

Mr. LaClair has led several interagency planning projects for BCDC to address shoreline development issues, public access and environmental protection. He is a principal author of the San Francisco Waterfront Special Area Plan, and supervised the preparation of the San Francisco Bay Area Water Trail Plan. From 1989 to 1992 he served on the staff of the City of Mountain View as an urban planner. He is a licensed landscape architect and has presented papers on coastal management and climate change at professional

conferences and is a member of the Board of Directors of the Bay Trail project.

**Amanda Little** | Author, *Power Trip: From Oil Wells to Solar Cells – Our Ride to the Renewable Future*

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Amanda Little (née Griscom) has published widely on the environment, energy and technology for more than a decade. She wrote "Muckracker," a long-running syndicated weekly column on Grist.org and Salon.com, and "Code Green," a monthly column on green innovations for Outside magazine, where she was a contributing editor. Her work has appeared in the New York Times Magazine, Vanity Fair, Rolling Stone, Wired, New York, InStyle, Men's Journal and the Washington Post. She is the recipient of the Jane Bagley Lehman Award for excellence in environmental journalism.

Little has been working in online media since 1996, when she was the first employee of the first online magazine, Feedmag.com. Thereafter she wrote a column for The Village Voice, "Urban Upgrade," which examined technological innovations in New York City's institutions and infrastructure. She has published interviews with public figures ranging from Barack Obama and Al Gore to John McCain and Rupert Murdoch. Little has appeared on MSNBC, Fox News, National Public Radio, and has delivered keynotes for audiences including the Garden Club of America, the Clean-Tech Investor Summit, Bowdoin College, and the Tennessee State Government. She lives in Nashville, Tennessee with her husband Carter Little, a composer, and their daughter.

**Christopher Mann** | Senior Officer, Pew Environment Group

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Chris Mann is a senior officer with the Pew Environment Group, the environmental program of the Pew Charitable Trusts, where he directs projects on aquaculture, management of forage fisheries, and ocean governance reform. He joined the Trusts with more than 20 years of experience in marine policy and science. Prior to joining the staff of the Trusts, he was executive director of the Marine Aquaculture Task Force, a project of Woods Hole Oceanographic Institution with support from the Pew Charitable Trusts and the Lenfest Ocean Program. The Task Force brought together leaders in aquaculture, conservation, marine science and policy to recommend national standards for sustainable aquaculture in marine waters of the United States.

Chris was Ocean and Coastal Policy Director for the Pew Oceans Commission, where he oversaw the Commission's work on ocean governance and coastal development. He managed legislative affairs on international environmental and economic issues at the State Department. Before moving to the State Department, he worked for the House of Representatives on marine resources conservation and management, first for the Committee on Merchant Marine and Fisheries and later for the Committee on Resources. Chris received a Bachelor of Science degree from the University of Illinois and attended the University of Rhode Island's Graduate School of Oceanography.

**Micah McCarty** | Councilman, Makah Tribal Council

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Micah McCarty is in his third consecutive term as Makah Tribal Councilman. Micah's Tribal background includes a Treaty Fisherman career that was cut short for an Artistic Passion and a promising career as a Traditional Makah Artist. Micah has experience with Traditional Resource management bodies, as well as a continuing education in Makah Culture.

Since being elected into Tribal Government Micah has Co-founded the creation of the Makah Office of Marine Affairs, and was the Council's lead on Makah's successful effort to include permanent Tribal representation on EPA region 10 and US Coast Guard District 13 "Regional Response Team". Micah made significant contributions towards the creation and implementation of the Intergovernmental Policy Council to the Olympic Coast National Marine Sanctuary for improved partnerships and collaboration for the Marine Space Shared. Micah is a recipient of the Potlatch Fund's first "Billy Frank Jr. Natural Resource Protection Award" and a Competitive German Marshall Fund Fellowship that fosters the Trans-Atlantic relationship for Emerging US/EU leaders. Councilman McCarty has also been extensively involved with Policy oversight on Makah explorations in several alternative energy projects, and has been a guest speaker at numerous Inter-tribal conferences. The Makah Organization operates 14 programs ranging from Municipal, Judicial, Social Services, Health Care, Environmental, and Natural Resource Management.

**Dr. Marcia McNutt** | Director, US Geological Survey

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Dr. McNutt is responsible for leading the Nation's largest water, earth, biological science and civilian mapping agency in its mission to provide the scientific data that enable decision makers to create sound policies for a changing world. She previously served as president and chief executive officer of the Monterey Bay Aquarium Research Institute (MBARI), in Moss Landing, CA.

Dr. McNutt has participated in 15 major oceanographic expeditions and served as chief scientist on more than half of those voyages. She has published 90 peer-reviewed scientific articles. Her research has ranged from studies of ocean island volcanism in French Polynesia to continental break-up in the Western United States to uplift of the Tibet Plateau.

She is a member of the National Academy of Sciences, the American Philosophical Society, and the American Academy of Arts and Sciences. She was awarded by the American Geophysical Union the Macelwane Medal in 1988 for research accomplishments by a

young scientist and the Maurice Ewing Medal in 2007 for her significant contributions to deep-sea exploration.

Dr. McNutt received a bachelor's in Physics from Colorado College and a doctorate in Earth Sciences from Scripps Institution of Oceanography.

**Monica Medina** | Principal Deputy Undersecretary for Oceans and Atmosphere, National Oceanic and Atmospheric Administration, U.S. Department of Commerce

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Monica Medina currently is the Principal Deputy Undersecretary for Oceans and Atmosphere of the National Oceanic and Atmospheric Administration (NOAA). In 2008, after the election, she served on the Presidential Transition Team and led the agency review of NOAA, and the confirmation team of Administrator Lubchenco. Ms. Medina also serves as the U.S. Commissioner to the International Whaling Commission.

Prior to joining the Obama Administration, Ms. Medina served as a Senior Officer in the Pew Environment Group, where she provided advice and assistance on issues of marine law and policy. Ms. Medina previously was the Deputy Director of the U.S. Office of the International Fund for Animal Welfare (IFAW). Ms. Medina has also spent a number of years as a partner at the law firm of Heller Ehrman White & McAuliffe, with a practice focused on environmental law, corporate law, and biotechnology matters.

From 1992 through 1999, Ms. Medina held a number of positions in the Clinton Administration and on Capitol Hill. She was General Counsel of NOAA from 1997-1999. While General Counsel of NOAA, Ms. Medina represented the United States in several international negotiations, and argued and won significant cases before the U.S. Courts of Appeals. Before joining NOAA, Ms. Medina was appointed by Janet Reno to serve as Deputy Associate Attorney General at the U.S. Department of Justice, with oversight of the Environment Division; earlier, she was a Senior Counsel to the U.S. Senate Committee on Environment and Public Works.

She is an honors graduate of the Columbia Law School and Georgetown University. She is married to Ronald A. Klain, and they have three teenage children.

**Jacques Beaudry-Losique** | Acting Wind and Water Power Program Manager, U.S. Department of Energy

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Jacques Beaudry-Losique was appointed in April 2010 as Acting Wind Program Manager for the DOE Office of Energy Efficiency and Renewable Energy (EERE). Jacques held multiple senior positions at EERE since 2005, including two years as Deputy-Assistant Secretary for Renewable Energy and three years leading major clean energy programs. Prior to DOE, Jacques has held senior executive positions for major U.S. corporations and also has many years of experience as a management consultant with McKinsey and Company.

Mr. Beaudry-Losique holds a Bachelor of Science degree in chemical engineering from the University of Montreal and a Master of Science degree in Industrial Engineering and Engineering Management from Stanford University. As a recipient of a Canadian Science Foundation Fellowship, he attended the MIT Sloan School of Management, where he received a master's degree in management in 1992.

**Cherise M. Oram** | Partner, Stoel Rives, LLP

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Cherise Oram is a partner in the Natural Resources and Land Use practice group. She focuses her practice on federal environmental and natural resources law with an emphasis on endangered species and energy facility permitting and compliance issues. Cherise has extensive experience on issues arising under the Endangered Species Act, Federal Power Act, Marine Mammal Protection Act, Magnuson-Stevens Fishery Conservation and Management Act, National Environmental Policy Act, Clean Water Act and Administrative Procedure Act. Representative clients include developers and owners of hydropower dams, wave and tidal energy projects, wind energy projects, liquid natural gas (LNG) facilities, and oil and gas facilities in complex permitting matters. Cherise formerly worked in the National Oceanic and Atmospheric Administration's Office of General Counsel representing the National Marine Fisheries Service (NOAA Fisheries Service) on endangered salmon, hydropower dam, and forestry issues in California.

**James P. Ray** | President, Oceanic Environmental Solutions, LLC

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Jim Ray is President of Oceanic Environmental Solutions, LLC (OES) a consulting firm dedicated to finding solutions based on good science to business related environmental issues. He was formerly employed by Shell Global Solutions (US) Inc., where he was Manager of Environmental Ecology and Response. Following his retirement after 30 years with Shell, he formed OES in 2004 to continue addressing real world problems in the marine environment. He has had extensive experience in petroleum industry operations and the environment.

He is a recognized biological oceanographer and environmental leader in the industry and has specialized in understanding the fate and effects of discharges and releases into the marine environment from industry operations (marine transportation, pipelines, and

exploration and production activities). He has published extensively on the biological aspects of these pursuits, and has served on numerous national scientific advisory boards (e.g. the Minerals Management Service Scientific Advisory Committee and the National Research Council's Ocean Studies Board). He has served on several NAS panels dealing with subjects such as oil in the sea; environmental marine monitoring; drilling mud fate and effects; and, environmental planning for arctic marine research. He also served on a Polar Research Board panel reviewing the oil spill research program in Prince William Sound, Alaska.

He was involved in the initial establishment of the Marine Sanctuary program and was part of the team that nominated the Flower Gardens marine sanctuary. He currently completed a two year commitment on the federal advisory committee to the Marine Mammal Commission in preparation of a report to Congress on the issue of environmental effects of marine acoustics on marine mammals. He also recently completed a six year term on the Federal Advisory Committee which assisted and advised the Departments of Interior and Commerce in the establishment of the national system of Marine Protected Areas.

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**Chris Sauer** | President & CEO, Ocean Renewable Power Company

Christopher R. Sauer is President and CEO of Ocean Renewable Power Company, an industry leading developer of technology and projects that generate clean, predictable power from ocean and river currents. He has more than 30 years of experience in the facility development, power generation, cogeneration, renewable energy and energy efficiency industries. He has a proven track record of success in executive management, engineering/construction, technology development, transaction structuring, marketing and sales and start-up company formation and management. He has held senior management positions with two major U.S. corporations and has been President and CEO of three startup energy/environmental technology companies. He has been in the energy transaction business since 1977 and, since that time, has played an instrumental role in the development of more than \$2 billion in energy assets and companies. Chris is a registered professional engineer and a lifetime Member of the American Society of Civil Engineers.

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**Kent Satterlee, III** | Offshore/US Regulatory Policy Manager, Shell Upstream Americas

Mr. Satterlee was born and grew up in New Orleans, Louisiana. He graduated from Louisiana State University in Baton Rouge with a Bachelor of Science degree in Civil Engineering. He began working with Shell Oil Company in 1981 as Civil Project Engineer in structural design and offshore platform installation. He held several positions with Shell, including Construction Inspector for Offshore Installations, Project Engineer for the Molino Prospect in the Santa Barbara Channel, Environmental Engineer for the Santa Maria Basin Development, Technical Manager of Environmental Engineering, and Spill Response Coordinator. For the last 20 years, he has worked in the environmental regulatory field.

Mr. Satterlee's current position with Shell is Manager of Regulatory Policy – Offshore for Upstream Americas. He is active in the American Petroleum Institute (API), Society of Petroleum Engineers (SPE), National Oceans Industries Association (NOIA), and the Offshore Operators Committee (OOC).

Mr. Satterlee serves on the board of Community Development Corporation (CDC) 58:12 whose mission is to see a healthy community established in the Ninth Ward of New Orleans. He is married with three children and resides in Mandeville, LA. His hobbies include water skiing, kayaking, biking, and youth sports.

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**Christopher A. Smith** | Deputy Assistant Secretary for Oil and Natural Gas, Office of Fossil Energy, U.S. Department of Energy

Christopher Smith is Deputy Assistant Secretary for Oil and Natural Gas in the Office of Fossil Energy of the U.S. Department of Energy. In this position, Smith is responsible for administering domestic and international oil and gas programs, including research and development, policy analysis, and natural gas import and export licensing. The Oil and Natural Gas Office leads the Department of Energy's LNG program which involves the analysis of safety and other technical issues.

Prior to his appointment in October of 2009, Smith served in managerial and analytical positions of increasing responsibility in the private sector. Most recently he spent eleven years with two major international oil companies focused primarily on upstream business development and LNG trading, including three years negotiating production and transportation agreements in Bogotá, Colombia.

Smith began his career as an officer in the U. S. Army and served tours in Korea and Hawaii. He subsequently worked for Citibank and JPMorgan in New York City and London in the area of emerging markets and currency derivatives.

Smith holds a bachelor's degree in Engineering Management from the United States Military Academy at West Point and an MBA from Cambridge University.

Smith is married to Dr. Patricia Smith. They reside in Alexandria with their two children.

**Jack Sterne** | Rising Tide Strategies, LLC

Jack Sterne is the principal of Rising Tide Strategies LLC, which provides strategic advice to environmental organizations and renewable energy companies. He has a two-decade record of success in environmental, energy, public lands, and oceans public policy and legal advocacy. Jack is an expert in ocean renewable energy, and has led multiple projects that have crafted consensus among environmentalists, technology developers, and utilities on appropriate national policy for ocean renewable energy development. He recently was part of a team that conducted a stakeholder process on wave and tidal energy for the U.S. Department of Energy. Currently, he is leading a working group of conservation organizations and wave, tidal and offshore wind developers, drafting a set of joint principles on the implementation of marine spatial planning. Jack is also the co-founder and general counsel of Ocean Champions, the first national political organization for the oceans.

**Dennis Takahashi-Kelso, JD, PhD** | Executive Vice-President, Ocean Conservancy

Dennis Takahashi-Kelso leads the science and policy direction for Ocean Conservancy. He was Alaska Commissioner of Environmental Conservation at the time of the Exxon Valdez spill. When the tanker Exxon Valdez went aground in 1989, spilling nearly 11 million gallons of crude oil into Prince William Sound, Dr. Takahashi-Kelso was on board within hours to begin enforcing clean-up standards. For the next two years, he worked in the spill area, in the state legislature, and in Congress to strengthen Alaska's environmental laws and to advocate passage of the federal Oil Pollution Act of 1990. He also served as Chair of the Alaska Emergency Response Commission and a member of the Alaska Coastal Policy Council, the Alaska Land Use Council, and the Alaska Water Resources Board. Dr. Takahashi-Kelso has covered every aspect of ocean conservation, including public service in natural resources conservation, university teaching, research on fisheries and environmental policy, and environmental grant making. In addition to his doctorate from UC Berkeley, Kelso also holds a law degree from Harvard University.

**Jonathan D. Trent, PhD** | OMEGA Project Scientist, NASA Ames Research Center

Dr. Jonathan Trent received his Ph.D. in Biological Oceanography at Scripps Institution of Oceanography. He spent six years in Europe at the Max Planck Institute for Biochemistry in Germany, the University of Copenhagen in Denmark, and the University of Paris at Orsay in France. He returned to the USA to work at the Boyer Center for Molecular Medicine at Yale Medical School for two years before establishing a biotechnology group at Argonne National Laboratory.

In 1998 he moved to NASA Ames Research Center to be part of NASA's Astrobiology program and established the Protein Nanotechnology Group in 1999. His nanotechnology has been applied to developing enzymes arrays to access the sugars in cellulose for making biofuels.

Dr. Jonathan Trent is currently the lead of a multidisciplinary team focused on producing carbon-neutral bio-aviation-fuels without competing with agriculture for land, fertilizer, or freshwater. He invented a system called OMEGA to grow oil-producing algae on municipal wastewater in plastic enclosures floating in the ocean. His work on biofuels was initially supported by Google.com and is currently supported by the California Energy Commission and NASA ARMD.

**Alla Weinstein** | President & CEO, Principle Power, Inc.

Alla is co-founder and the CEO & President of Principle Power Inc., her second start-up that was established in late 2007. Principle Power is the developer of the WindFloat, a floating support structure for large offshore wind turbines (3.6 MW and greater).

In 2006 Ms. Weinstein founded the European Ocean Energy Association and is currently serves as its first President. The Association, located at the Renewable Energy House in Brussels, Belgium, is promoting and bringing public awareness to the benefits of Ocean Energy.

In 2001, Ms. Weinstein decided to take on the entrepreneurial challenge in a renewable energy company because it combined her lifelong interests and experience in science, technology and climate change with her successful business expertise. That year she co-founded AquaEnergy Group Ltd., a company dedicated to developing wave energy, utilizing its own patented wave energy conversion technology. She served as CEO & President of AquaEnergy until Finavera Renewables, a TSX-V listed public company, acquired the company in 2006.

Ms. Weinstein's successful career began at Honeywell Inc. and spanned over 21 years, where she held positions of International Business Development Director, Program Manager and Systems Engineer. At Honeywell, Weinstein developed start-up initiatives, both domestically and internationally in renewable energy, aerospace, and semiconductors sectors, where she created an emerging market business and was a General Manager with full P&L responsibility for a \$100 million business. She implemented in-country fabrication and secured project finance from European Bank for Reconstruction and Development for over \$250 million. Ms. Weinstein conducted extensive work with U.S. government export organizations including EX-IM Bank, the National Economic

Council, the Commerce and State Departments, and the International Trade Commission.

Alla Weinstein is an engineer and a business professional with over 30 years of industry experience. She has extensive knowledge in working with emerging technologies, international markets, energy policies and governments. She holds a Bachelor of Engineering in Electrical Engineering from Stevens Institute of Technology and an MBA from Thunderbird, The Garvin School of International Management.

**Dave Westerholm** | Director, Office of Response and Restoration, National Oceanic and Atmospheric Administration

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Mr. Westerholm currently serves as the Director of NOAA's Office of Response and Restoration where he provides comprehensive solutions to the environmental hazards caused by oil, chemicals, and marine debris. He oversees an Emergency Response Program that includes Scientific Support Coordinators who directly support Coast Guard Federal On Scene Coordinators with environmental data, modeling, preparedness aids and training. As the primary federal trustee his Restoration Program is responsible for protecting coastal and marine resources, mitigating threats, reducing harm, assessing damage and restoring ecological function under the Clean Water Act, CERCLA and the Oil Pollution Act. He also manages the Marine Debris Program, a multi-agency effort devoted to prevention, education and mitigation of the hazards of persistent marine debris. Prior to NOAA, Mr. Westerholm had several years of corporate experience as both Senior Operations Director and Vice President for Maritime Security, Policy and Communications for Anteon Corporation and then General Dynamics. He is a retired Coast Guard Captain with over 27 years of experience in a variety of fields.

**Sandra Whitehouse, PhD** | Senior Advisor, Ocean Conservancy

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Dr. Sandra Thornton Whitehouse is a longtime environmental advocate and policy advisor who uses her expertise in marine science to help shape environmental initiatives in Rhode Island and on the federal level. She has worked as an environmental consultant for the past fifteen years, providing research, analysis, and advice on environmental policy issues to clients including the Rhode Island General Assembly, the Coastal States Stewardship Foundation and the Ocean Conservancy. She is currently the team lead for Ocean Conservancy's Coastal and Marine Spatial Planning program. Dr. Whitehouse is a former chair of Rhode Island's Coastal Resources Management Council and has served on the boards of Save the Bay, the Nature Conservancy's Rhode Island chapter, the Metcalf Institute for Marine and Environmental Reporting, The Aquidneck Island Land Trust, Grow Smart Rhode Island, and the University of Rhode Island's Marine Advisory Council, among others. She holds a B.S. from Yale and a Ph.D. in biological oceanography from the Graduate School of Oceanography at the University of Rhode Island. Dr. Whitehouse lives in Rhode Island and Washington, D.C. with her husband and their two children.

**The Honorable Sheldon Whitehouse** | U.S. Senator, Rhode Island

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U.S. Senator Sheldon Whitehouse (D-R.I.), a member of the Senate Environment and Public Works (EPW) Committee, and a sailor and diver, has been active in addressing threats to ocean and coastal ecosystems, in Rhode Island and around the world.

Senator Whitehouse has been a champion for protecting coastal and estuarine habitat since he joined the Senate, successfully reauthorizing the Estuary Restoration Act (ERA) in 2007, declaring National Estuaries Day in 2009, and continually supporting increased funding for National Estuary Programs across the country. Last fall, he fought successfully to make sure climate legislation passed by the EPW Committee contained strong protections for coastal communities, wildlife, and land and marine ecosystems as they struggle to adapt to sea level rise and invasive species. He continues to advocate for these protections in the Kerry Lieberman bill that was recently released.

Senator Whitehouse has also sought out opportunities to educate himself and to raise awareness about issues facing our oceans and coasts. For instance, Senator Whitehouse visited the Gulf Coast last month with Secretary Salazar, Secretary Napolitano, Senator Durbin and others, to see the growing oil spill and to meet with representatives of impacted coastal communities. He has actively participated in EPW hearings investigating the cause of the spill and the adequacy of the response, and he has introduced legislation to hold oil companies accountable for damage they cause to marine and coastal ecosystems and the communities they support. His bills aim to lift limits on punitive damages that can be assessed against oil companies, and to raise the maximum daily civil and criminal penalties for violations of worker safety and environmental regulations under the Outer Continental Shelf Lands Act. A third bill, which would establish an independent commission to investigate the root causes of the oil spill, and identify regulatory reforms necessary to prevent another Deepwater Horizon disaster, was adopted by President Obama in an Executive Order dated May 22.

Senator Whitehouse has worked closely with Rhode Island's environmental community to raise awareness of the potential impact of global warming on the Ocean State. In August 2008, he held an official field briefing of the EPW Committee at the University of Rhode Island's Bay Campus to examine global warming's impacts on Narragansett Bay. Elected to the Senate in 2006, Whitehouse lives in Newport, Rhode Island with his wife Sandra, an environmental policy expert and marine biologist, and their two children.

**Dr. Shimere Williams** | Professional Policy Staff, U.S. House of Representatives Committee on Science and Technology, Subcommittee on Energy and Environment

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Shimere holds a B.S. in Civil/Environmental Engineering as well as a Ph.D. in Pharmacology. Her doctoral research focused on the role of the dopaminergic signaling pathway underlying the maintenance phase of long-term potentiation (long-term memory). Shimere serves as Professional Staff for the Energy and Environment Subcommittee, where she works on ocean, weather, environmental, energy, and technology issues. Prior to joining the Committee, her path to a career in policy began with a dynamic experience at the National Academy of Sciences. There she completed a graduate science and technology policy fellowship with the Institute for Laboratory Animal Research in the Division on Earth and Life Studies, then succeeded with the Board on Children, Youth and Families in the Institute of Medicine and Division of Behavioral and Social Sciences and Education.

**The Honorable Robert J. Wittman** | U.S. House of Representatives (VA-01)

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Rob Wittman was elected to serve the 1st Congressional District of Virginia – America’s First District – on December 11, 2007, in a special election to fill the seat of the late Jo Ann Davis.

For more than 20 years, Rob has served in several levels of government, from Montross Town Council to the Virginia General Assembly. Rob won his first campaign for public office in 1986 when he was elected to the Montross Town Council, where he served for 10 years, four of them as Mayor. During his tenure, he helped build a municipal sewer system and developed a computerized tax billing system that cut burdensome paperwork, saving the taxpayers money.

In 1995, Rob was elected to the Westmoreland County Board of Supervisors and was elected its Chairman in 2003. As a member of the board, Rob Wittman’s leadership paved the way for the construction of three new libraries, provided tax relief for seniors, and raised teacher salaries to competitive levels.

In 2005, voters in the 99th Legislative District elected Rob to the Virginia House of Delegates, where he served on three important committees – Agriculture, Chesapeake and Natural Resources; Militia, Police and Public Safety; and Transportation – and was a strong voice for keeping taxes low, supporting education, and protecting the environment while encouraging new jobs.

Rob, 48, spent over 20 years working in state government, most recently as Field Director for the Virginia Health Department’s Division of Shellfish Sanitation. Earlier, he worked for many years as an environmental health specialist for local health departments in Virginia’s Northern Neck and Middle Peninsula regions. He holds a Ph.D. in Public Policy and Administration from Virginia Commonwealth University, a Master of Public Health degree in Health Policy and Administration from the University of North Carolina, and a Bachelor of Science degree in Biology from Virginia Tech.

Rob’s wife, Kathryn, a teacher at Cople Elementary School in Hague, is a Westmoreland County native whom he met when he spent high school and college summer recesses working in a Leedstown tomato cannery and on a Reedville fishing boat in the Northern Neck. They live in Montross and have two children: a daughter, Devon, 25, son-in-law Daniel Gooch, and a son, Josh, 21. Rob and Kathryn recently became grandparents for the first time when Devon gave birth to Morgan Elizabeth Gooch.

**Jeff C. Wright** | Director, Office of Energy Projects, Federal Energy Regulatory Commission

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Jeff Wright is the Director of the Office of Energy Projects and has been a member of the Office of Energy Projects since its inception in 2000. This Office is responsible for the licensing, safety, and administration of non-federal hydroelectric projects; the processing of applications for the construction and operation of natural gas pipelines and storage facilities; and the siting and safety of liquefied natural gas terminals. In addition, this Office administers the supplemental siting authority for interstate electric transmission facilities granted by the Energy Policy Act of 2005.

Mr. Wright joined the Commission in 1979 and served as project manager on many applications to site natural gas pipelines and storage facilities. Subsequently, he became the head of the Energy Infrastructure Policy Group. That group was responsible for analyzing and assessing energy infrastructure in the U.S. In this position, Mr. Wright organized and participated in FERC’s regional energy infrastructure conferences in the Northeast, Southeast, Midwest and West.

Mr. Wright received a B.A. in economics from the College of William and Mary and a M.B.A. from the University of Maryland. Mr. Wright was born in Alexandria, Virginia, and now lives in Silver Spring, Maryland, with his wife and two daughters.

**Sally Yozell** | Director of Policy, National Oceanic and Atmospheric Administration

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Ms. Yozell is NOAA’s Director of Policy in the Office of the Under Secretary of Commerce for Oceans and Atmosphere. In that role she oversees a team who develops and evaluates policies, strategies, and long-range plans for new initiatives and existing programs

throughout NOAA. She also leads NOAA as a senior Advisor on Administration priorities including development of a national Ocean Policy, Coastal and Marine Spatial Planning, Gulf Coast Road Map, climate change adaptation in coastal areas, habitat restoration and Chesapeake Bay Clean up.

Prior to coming to NOAA Ms. Yozell was the Director of Marine Conservation at The Nature Conservancy for the Eastern U.S Region. In this job, she oversaw the development of an integrated, science-based marine ecological assessment of the northwest Atlantic Ocean; conducted university seminars on ecosystem-based management and marine conservation; and provided guidance for her regional staff and relevant scientific committees. She was also active in the development of policies relating to coastal and marine spatial planning and regional ocean governance. For the past decade, she served as a member of the Stellwagen Bank National Marine Sanctuary Advisory Committee.

Prior to this, Ms. Yozell was Vice President for Program Development and Management at the Battelle Memorial Institute where she was also a senior manager for scientific research and consulting with Battelle's applied marine science group. She also oversaw a team that focused on Everglades restoration activities in South Florida.

From 1994–2000, Ms. Yozell served as the Deputy Assistant Secretary for Oceans and Atmosphere at NOAA. While at NOAA, Sally was a leader on many initiatives including restoring the Everglades, fighting invasive species and harmful algal blooms, and protecting coral reefs. She also served as the Executive Director of the 1998 National Ocean Conference, which inspired the creation of the two national ocean commissions. She has worked with Senator John Kerry and Representative Robert F. Drinan. Ms. Yozell holds a master's in public administration from Harvard University's Kennedy School of Government and a bachelor's in political science from the University of Vermont.