

**Member Bios for Energy Services Working Group**  
**Dec. 3, 2014**

**Christopher Ash**

Industry Executive, Solution Architect and Consultant for Demand Response (DR), Meter Data Management Systems (MDMS), Advanced Metering Infrastructure (AMI), and other related Transmission and Distribution (T&D) information systems for electric, gas and water utilities. Providing services across all project phases including strategic planning, regulatory filing support, requirements definition, enterprise architecture, vendor evaluation, systems implementation and integration. Currently hold position of Vice President of Product Management for innovative industry vendor with \$100m in annual revenue.

**Tim Beal**

I am currently the Director of Sustainable Communities for Boulder Housing Partners (BHP), where I work to implement the organizations sustainability goals. My current job also includes Risk Management responsibilities for the organization. My most ambitious goal is to carry out the BHP board objective of becoming the first net zero Housing Authority in the country. I have a strong background working in the fields of renewable energy, energy efficiency, sustainable development and community building. BHP has received national recognition as an affordable housing provider that is known for its innovative building and resident programs. The organizations goal is to make living in Boulder possible and affordable, regardless of income. We are committed to creating environmentally friendly housing and fostering a healthy sense of community. During my tenure with the organization, BHP has been successful in partnering with the public and private sector to expanding sustainability efforts. BHP has competed for and received grant funding from the City of Boulder, Boulder County, the State of Colorado and the Federal Government. We have also been able to create some unique partnerships with the private sector to improve water conservation and increase the organizations solar PV portfolio. BHP's solar PV portfolio is approaching 1 megawatt. Prior to my appointment to the Sustainability position in 2014, I was Director of Property Management at BHP for the past 14 years. I supervised a property management staff of approximately 30 people, who provided leasing and maintenance to the Boulder Housing Partners. Boulder Housing Partners owns and manages a variety of housing stock that includes Boulder Affordable Rentals, Market Rate, Tax Credit, Project Based Section 8 and Public Housing properties. I am very familiar with navigating the regulator process and managing programs that receive local, state and federal monies. I have been fortunate enough to live and work in the City of Boulder with my wife and two kids since 1990. My daily work is fueled by the urgency to help reduce the impacts of climate change and to help build healthy communities.

**Martha Campbell**

I joined RMI in July 2013 and have actively participated in the development of RMI's new Communities Practice. I am originally from El Paso, Texas, with professional experiences as varied as learning green building techniques from renegade eco-architect Mike Reynolds, working for Rio Tinto's Sustainable Development team, field organizing in northern New Mexico, to program trading in Goldman Sachs Equities division. I have been intimately involved in developing RMI's Communities practice's internal strategy. Simultaneously I am working closely with various communities to develop the new programs and business models necessary to accelerate their green house gas emissions reduction goals. I continue to

focus on sustainable finance as it relates to such community efforts. I have a BA in International Relations from Stanford University with an MBA/MS from the University of Michigan.

### **Brad Davids**

Brad Davids is a recognized expert in demand response, energy efficiency, and retail energy services, with extensive experience working directly with dozens of utilities and grid operators across North America and internationally. Before forming his independent consultancy, Reticolo Advisors, in June 2014, he held senior roles in business development and sales management with EnerNOC, Inc., the world's largest provider of demand response resources to utilities and grid operators. Prior to EnerNOC, he worked for more than two decades in a variety of management positions related to utility demand-side management (DSM) technologies, program implementation, and analysis of energy services markets. During his tenure at EnerNOC (between 2009 and 2014 as Vice President of Utility Solutions), Brad was directly involved in helping dozens of utilities design and implement successful demand response and energy efficiency programs targeting the commercial and industrial market sectors. These programs are currently delivering thousands of megawatts (and megawatt-hours) of cost-effective demand-side resources, across a diverse range of geographic markets. Before EnerNOC, Brad held senior roles with several leading research and advisory service firms focused on retail energy services and DSM, including IDC Energy Insights, EPRI Solutions / Primen, and E Source (a firm he co-founded in Boulder in 1992 as a subsidiary of the Rocky Mountain Institute). Earlier in his career, he led marketing and sales for an energy services subsidiary of a major investor-owned utility in the Pacific Northwest, and for two manufacturers of energy-efficient window glass products. Brad has authored dozens of articles in trade publications and newsletters, and created and delivered numerous in-person presentations to individual utilities and industry conferences on a broad range of topics related to DR and EE program design and implementation.

### **Steve Dedrick**

At the broadest level, Steve is a technologist with the perspective and skill sets to implement solutions on a wide array of scenarios. He is passionate about appropriately using technology to create synergy between humans and the natural world. He approaches each scenario from a "whole systems perspective," seeking to optimize cost, convenience, and environmental impact. Steve has a unique background that ranges from studies in engineering and technical innovation to spiritual seeking and personal growth. He left the university system while studying engineering at Purdue to travel and live in sustainable communities. He spent several years learning about sustainable technology, alternative energy, and co-creative decision making processes. He currently studies some leading maps of human development and employs them in how he lives his life and the technological solutions he creates.

### **Greg Ekrem**

Mr. Ekrem is a Managing Consultant and Manager of the Field Operations Group with Navigant. The focus of his work includes: Coordination, support and implementation of field activities, utility program evaluation, market research activities, Geographic Information System (GIS) analysis, database management and map design across several projects at Navigant. He holds a B.A. in Environmental Conservation, a blended program of Geography, Biology, and Economics from the University of Colorado (CU) at Boulder.

## **Jeremy Epstein**

Jeremy Epstein joined Harcourt Brown & Carey in early 2014. During his first year his projects have included:

- Creating financing "roadmaps" to leverage public funding with private capital for the State of Arkansas and the City and County of Denver
  - Development of a marketing and contractor engagement plan for the California Public Utilities
  - Promotion of the suite of PowerSaver loan products
  - Development of a national credit union based energy lending platform for a major technology company
  - Development, research and consulting to the Colorado NEID Commercial PACE Board of Directors
- Jeremy came to HB&C from the public sector where he designed and managed the contractor friendly Elevations Energy Loan. This successful program has made over \$35M in lending capital available for EE/RE projects to commercial and residential customers in Boulder and Denver Counties. Jeremy has significant experience in successful program deployment, having helped form Boulder County's EnergySmart service, an advisor-based program which reached over 10,000 homes in its the first three years. In addition, he brings a strong background in policy, marketing, GHG accounting, and climate action planning. Prior to Boulder County, Jeremy worked with the Earth Advantage Institute and as a consultant to a green-focused construction business. He holds a BA in environmental policy and anthropology from the University of Colorado and an MA in environmental policy with a focus on climate policy and economics from the Evergreen State College.

## **Chad Garrett**

I am a consultant at E Source where for 9 years he has worked with dozens of utilities to boost demand-side management program results and improve customer relationships. An economist with a background in empirical modeling, his contributions range from developing quantitative behavioral models to advising utilities on business customer strategy. During my time at E Source I have led the development of a number of successful and ground-breaking software, data analytics and market research products. I frequently speak in public and have presented at dozens of industry events. I have focused on utilities and other heavily-regulated industries throughout much of his career. This included experience with Ryanair during the rapid growth following European airline deregulation, as well as on healthcare policy analysis at the Muskie School for Public Service. I have led startups in the non-profit and private spheres where his responsibilities spanned programmatic work, business development, volunteer coordination and customer service. I have a B.S. in economics from Bates College and a M.S. in mineral and energy economics from the Colorado School of Mines

## **Doug Hargrave**

Doug brings 20 years of experience of developing and executing energy efficiency and sustainability projects, including over decade of Colorado and Boulder-specific experience. Beginning as an energy modeler and energy engineer supporting utility and government DSM programs, Doug has had a broad exposure and influence to how policy begets programs, programs then beget projects, and projects beget energy savings. This is a powerful spectrum of experience is enhanced both by serving commercial AND industrial facilities and by the geography in which it was acquired: Colorado, California, New York, Maryland/Virginia/DC, Wisconsin, and a variety of national programs. In short, Doug can provide both breadth and depth of best practices to the City as it shapes and molds how it will enhance the energy efficiency landscape for its constituents. Doug holds a Bachelor's of Science in Mechanical Engineering from Washington University in St. Louis as well as a variety of industry certifications.

### **Tim Hillman**

Dr. Hillman brings over 14 years of experience in energy and resource management, ranging from national policy development to utility demand-side management program implementation. Dr. Hillman focuses on the building energy efficiency and data analytics fields, specializing in the use of data mining strategies to help utilities more cost effectively achieve program goals. Managing the deployment of ICF's Strategic Intelligence Management System (SIMS), he oversees the integration of customer, billing and geospatial data to facilitate energy and water conservation program design, implementation and evaluation for numerous utility and governmental clients. Dr. Hillman also serves in an advisory role for energy, water, greenhouse gas (GHG) management as well as overall sustainability oversight for numerous governmental entities and regional collaborations.

### **Robert Hutchinson**

BE Mechanical Engineering (Vanderbilt) Graduate degree in energy engineering from Cambridge University MS in Mechanical Engineering, Stanford MBA, Stanford 4 years as program manager, Buildings energy technologies at PNNL almost 20 years as management consultant (partner) working globally at BCG on wide range of topics 2 years running small cleantech fund (Pronghorn, now closed) 5 years as Managing Director (running program side, with particularly focus on Buildings, Industry and Transportation) at Rocky Mountain Institute now Senior Fellow (like adjunct faculty) at RMI, working on selected projects and, on my own, doing energy finance and impact investing.

### **Larry Kinney**

I am a co-founder and President of Synergistic Building Technologies. Since September of 2010, I have served the company as Chief Technology Officer. I have conceived and directed dozens of energy-related energy research, development, and demonstration projects. Active in energy conservation research and development work for over 40 years, I have broad experience in fenestration systems, lighting and daylighting technologies, air handling and conditioning systems, controls, and energy-efficient buildings, including greenhouses. I have authored over 200 publications and reports to clients in the above areas and am a co-holder of three patents in the daylighting area. I am the project director for SBT's work in developing energy-efficient greenhouses and am the principal author of dozens of reports, a handful of presentations, and a video on the subject. My background includes a good deal of work in the weatherization assistance program, including program evaluation, training and technical assistance, policy analysis, and the initiation of such new measures in the program as efficient lighting and refrigerator replacements. I have also consulted for a number of utility companies, the Department of Energy, and state and local governments, including the City of Boulder. The latter includes work in evaporative coolers, energy audits, and rental issues. While on the Board of the Boulder Green Building Green, I chaired the Education Committee where I spearheaded the development of the Boulder Green Building Journal and wrote dozens of articles on techniques for conserving energy in the building sector. I did undergraduate work in Physics and Philosophy at Davidson and Rhodes colleges and hold a PhD in Philosophy from Syracuse University, where my research included Bertrand Russell's work in developing the foundations of mathematics and logic.

### **David Kline**

David Kline has more than thirty years experience in the analysis of public policy toward energy research and development, demonstration and deployment, with over twenty years focusing on renewable energy

technologies. He joined the staff of the National Renewable Energy Laboratory in 1991, retiring in 2013 as Group Manager for Market and Policy Impact Analysis. After 1999, his work focused on market-oriented strategies for the transfer of clean energy technologies from developed to developing countries. For six years he led a program of collaboration with partners in China on renewable energy policy, planning, deployment, technology development, and standards. He also led efforts to develop a project screening methodology for the Millennium Challenge Corporation's sustainable energy partnership with Indonesia. He also has experience in Ghana, Egypt, Mexico, Morocco, and South Africa, and has participated in a number of international forums on clean energy issues. He has published and presented extensively on public policy on renewable energy, technology change and adoption, oil markets, and natural gas transportation networks. Prior to joining NREL in 1991, Dr. Kline held positions with Stanford University, the Natomas Company, and the California Energy Commission, consulting and managing analysis for the private and public sectors on oil and gas resources. He has published and presented extensively on public policy toward oil markets, natural gas transportation networks, and renewable energy technology markets. David holds a BA in Mathematics, and an MS and Ph.D. in Management Science and Engineering from Stanford University, focusing on the resource economics of world oil markets.

### **Josh Kuhn**

When I was a teenager, I went on an eight-week trip that brought me out west for the first time. After two months of camping, hiking, rafting, and more, I returned to the east coast with a new passion for the natural environment. A few years later, when it came time to go to college, I chose the University of Colorado, largely because of its proximity to the mountains. Since then, my love of the outdoors has motivated my life choices, first in recreation, then in environmental education, and most recently in sustainability and conservation. In 2012, I moved back to Boulder after earning an M.S. at Antioch University New England's Sustainable Development and Climate Change program. Upon moving back, I immediately contacted Heather Bailey to determine how I could be a part of the municipalization efforts. After completing a few research projects for her, I was invited to serve on the Resource Modeling team. During this time, I also interned with Denver Public Schools' Sustainability Department, tracking energy usage among its various facilities.. Since then, I have served as a fellow with the Colorado Mountain Club's Conservation Department, where I helped revitalize their Backcountry Snowsports Initiative and spearheaded a Wilderness campaign. Currently, I am working as a contract campaign organizer with The Wilderness Society as well as working part-time on an effort to map locations of human-powered outdoor recreation through Geographical Information System (GIS) with Outdoor Alliance Colorado. I like to think that my past experiences, current work, and educational background highlight my hard work ethic, diverse background, and commitment to creating a more sustainable future.

### **Linda Olsson**

I have over 30 years of experience in the energy industry and as a management consultant working with Fortune 500 firms. I recently retired from the Energy Services group at Cadmus Consulting, where I led teams evaluating energy program portfolios for the States of Wisconsin and Maryland, 8 southern states served by the Southeast Energy Efficiency Association, Salt River Project (Az electric utility), and other clients. Prior to this I launched the renewable energy and clean tech program for the Boulder Innovation Center (now Innovation Center of the Rockies) and consulted independently, including several multi-stakeholder two-day workshops addressing challenges of energy conservation programs for multi-family,

low income and hard-to-reach/hard-to-serve customers. As a management consultant for over 12 years, I helped global companies develop new strategies, improve processes and performance, identify sustainable business practices and transform to more effective organizations. Key clients included American Water, American Electric Power, the Canadian Association of Chain Drug Stores/B.C. Ministry of Health, Contact Energy (New Zealand), Electronic Data Systems, Jones Lang LaSalle, LG Electronics, Pacific Gas & Electric, Proctor & Gamble, Rohm and Haas and Toyota. I continue to work part-time transforming properties and products through reclaiming, re-inventing and revitalization with O Ventures, a company I founded in 2011 and support the Center for Resource Conservation as a member of the Board of Directors.

### **Lynn Roy**

I am a Principal Consultant in Nexant's Customer Strategy, Planning & Analysis Group located in the Louisville, Colorado office. I am responsible for market research, impact evaluation oversight, new staff hiring, and employee oversight in addition to my role in business development activities. In my 13-year tenure at Nexant, I have managed the design and administration of large scale utility demand side management (DSM) programs, evaluations of government and utility-funded energy efficiency programs for compliance, multiple energy audit projects, and the measurement & verification (M&V) process of building performance projects. Additionally, I managed a variety of projects including the M&V analysis and modeling for the Pentagon renovation project, an ongoing 10-year redesign of all building systems in Wedges Two through Five of the 6.5-million sq. ft. building; Xcel Energy's Colorado

On-Site Assessment program; Xcel Energy's Colorado multi-year residential energy efficiency programs; and the City of Boulder's ClimateSmart at Work program. I was actively involved in Nexant's research project for the International Energy Agency (IEA) targeted at managing energy demand growth and reducing greenhouse-gas (GHG) emissions, and studying the role that energy providers (i.e. energy companies and electric/gas utilities) will play in the coming decades. The report, titled "Energy Provider-Delivered Energy Efficiency" was released in February 2013. I currently oversee Nexant's involvement in the national Better Buildings Neighborhood program evaluation; the evaluation of Avista Utilities 2014-2015 DSM programs; the impact evaluation activities for Wisconsin Focus on Energy; the impact evaluation activities for Northwest Energy Efficiency Alliance's (NEEA's) Building Operator Certification program; the evaluation of Georgia Power Company's 2014 - 2016 Portfolio Evaluation; and I lead market and best practices research conducted within Nexant.

### **Timothy Schoechle**

Dr. Schoechle is an international consultant in computer and communications engineering and in technical standards development. He presently serves as Secretary of ISO/IEC SC25 Working Group 1, the international standards committee for Home Electronic System and is a technical co-editor of several new international standards related to the smart grid. He also serves as Secretariat of ISO/IEC SC32 Data Management and Interchange, and he currently participates in a range of national and international standards bodies related to smart grid technology and policy issues. As an entrepreneur, he has engineered the development of electric utility gateways and energy management systems for over 25 years and has played a role in the development of standards for home networks and for advanced metering infrastructure (AMI). He is a former faculty member of the University of Colorado College of Engineering and Applied Science. He is considered an expert on the international standards system, the topic of his 2009 book, Standardization and Digital Enclosure. Dr. Schoechle was a co-founder of BI

Incorporated, a pioneer developer of RFID technology. He holds an M.S. in telecommunications engineering (1995) and a Ph.D. in communication policy (2004) from the University of Colorado, Boulder.

### **Pankaj Sharma**

I am a Visiting Research Scholar with University of Colorado at Boulder( CU) studying economics of climate change with special focus on energy generation and consumption domain including aspects like Multiplication, Fuel Shifts, Energy Demand Patterns , etc. Before this I headed a think tank in India which worked on these issues and I have been personally profiled in leading academic journals and media outlets like WSJ, NYT, The Guardian, Reuters, AFP, etc.

### **John Street**

John Street has 17 years of professional experience: 10 years broadly in energy and seven years specifically in solar. John has held senior roles in project finance and project development for solar companies since 2007. John started his career working in the oil patch for a membrane technology company that separated carbon dioxide from natural gas streams. Getting a close look at the oil and gas industry was the impetus to switch to renewables. His career highlight was the development of the 30MW Webberville solar project that was commissioned in 2011. John has an MBA from Georgetown University and a Bachelors of Science in Mechanical Engineering from the University of Colorado.

### **Ted Weaver**

30 years experience working for consulting firms, state government agency, municipal utility, and energy service company. Have developed, managed, and evaluated energy service programs representing almost \$3 billion in investment.

### **Katie Williams**

I am an IT professional who has worked with electric and gas utilities for 17 years in several project management roles to implement CIS systems, manage CIS application enhancements and new system integrations to improve operational efficiencies, customer service and open new channels for customer interactions and new products for customer choice. I currently work in a role as program manager of Customer Experience for a utility IT department. I work with the directors of Customer Care and directors of Marketing to align new project ideas to company strategy. I facilitate communication between business and IT, work with directors to develop the roadmap, and manage scope and estimation of new ideas for funding approval.