

**Department of Energy**  
**Fiscal Year 2017 Conference Activity**

<b>Conference Title</b>	<b>Purpose of Conference</b>	<b>Date of Conference</b>	<b>Location</b>	<b>State, Country</b>	<b>DOE Attendees</b>	<b>Total Net Costs</b>
36th International Conference on Reduced Enrichment for Research and Test Reactors (RERTR)-2016	The main objective of the Annual RERTR Conference was to present and review project progress toward the core conversion of research reactors from highly enriched uranium (HEU) to low enriched uranium (LEU) fuels with international collaborators of the Office of Material Management and Minimization's (M3) HEU minimization programs, primarily the reactor conversion, fuel development and spent fuel removal efforts. During the meeting, nearly 100 detailed technical presentations were made in approximately 17 sessions. This meeting is the primary venue for all key international stakeholders in M3's HEU minimization programs to present their work and hold meetings to advance the numerous ongoing HEU minimization projects worldwide.	23 - 27 October, 2016	Antwerp	Belgium	58	\$321,472
Basic Research Needs Workshop for the Energy-Water Nexus: New approaches to ensure robust and secure energy and water systems	The purpose of this workshop was to identify basic research needs and opportunities related to the connection between water and energy systems, the "energy-water nexus." Energy and water systems are interdependent; water is broadly used in energy production while energy is needed to ensure a safe and secure water supply for society as well as to help protect the environment. The energy-water nexus is potentially one of the largest future growth areas for Department of Energy (DOE) -supported research. The 2014 DOE Report on the Energy-Water Nexus presented six strategic pillars and five technological areas for Research, Development, Demonstration, & Deployment, capturing systems-level needs and opportunities. To date, the focus and planning by DOE in this area has largely been on engineering processes and on data, modeling, and analysis. However, innovations enabled through basic research will underpin many of the technological advances needed for more efficient use of water for energy and energy for water.	4 - 6 January, 2017	North Bethesda	MD, US	123	\$304,531

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Quantum Testbeds Stakeholder Workshop	Quantum computing is a promising early-stage technology with the potential to provide scientific computing capabilities far beyond what is possible with even an Exascale computer in specific problems of relevance to the Office of Science. These include (but are not limited to) materials modeling, molecular dynamics, and quantum chromodynamics. The purpose of this workshop was to identify opportunities and challenges in establishing a small, collaborative research facility to advance quantum computing hardware for these and other science applications.	14 - 16 February, 2017	Washington	DC, US	61	\$169,062
2017 ARPA-E Energy Innovation Summit	The 2017 ARPA-E Energy Innovation Summit was dedicated to discussing and showcasing transformative energy solutions. This annual event brings together leaders from academia, business, and government to discuss cutting-edge energy issues and facilitate relationships to move technologies into the marketplace. As such, this meeting was an important forum for DOE to share new ideas and information with academia, industry, and government representatives and accelerate transformational energy solutions to better advance U.S. economic and energy security goals. This objective is in direct alignment with the interests, goals, and mission of DOE and ARPA-E.	27 February - 1 March, 2017	National Harbor	MD, US	278	\$416,281
Developing the Biological and Environmental Research (BER) Grand Challenges Workshop	The workshop directly supports the Department's Strategic Goal 1, Objective 3 to deliver scientific discoveries in support of the Department's mission to address the nation's energy, environmental, and nuclear challenges through transformative science. The workshop was held to fulfill objectives of the Biological and Environmental Research Advisory Committee to identify the next grand challenges for BER over the next 20 years. The objective of the workshop was to discuss previously prepared white papers on scientific challenges, identify and discuss new challenges, synthesize discussions into broad science themes, and receive input on research challenge priorities.	6 - 8 March, 2017	Rockville	MD, US	104	\$193,200

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2017 Lab Big Ideas Summit	The Summit was held to discuss "Big Ideas" that require collaborative multi-program and multi-Laboratory solutions to move forward on key national energy challenges and accelerate technology transfer. The Summit brought together subject matter experts from DOE's Science and Applied Energy programs, the Office of Energy Policy and Systems Analysis, the National Nuclear Security Administration (NNSA) and the National Laboratories. This dialogue helps the Department's planning for future investments and priorities, out-year budgets and program planning.	9 - 10 March, 2017	Washington	DC, US	142	\$225,421
2017 DOE Project Management Workshop	The workshop provided an opportunity to receive valuable information on DOE project management requirements and practices and to share experiences and lessons learned from across the complex. The workshop covered a variety of topics related to project management challenges, successes, and improvement ideas. Project award presentations were held to present the Federal Project Director of the Year award, and the Secretary's awards for project achievement and improvement.	21 - 23 March, 2017	Arlington	VA, US	328	\$301,675
Basic Research Needs for Electrical Energy Storage Workshop	The purpose of this workshop was to refresh the 2007 Basic Research Needs workshop report on Electrical Energy Storage. The workshop and the subsequent report identified basic research needs and opportunities related to electrical energy storage broadly, including applications in transportation and the electrical grid. Since the 2007 report, significant advances have occurred in this field with the expansion in electrical cars, consumer electronics that require batteries, and expansion in renewable energy on the grid. Scientifically, DOE investments in basic research through the Energy Frontier Research Centers and the Energy Storage Hub have advanced the understanding of fundamental electrochemical phenomena and expanded the materials systems that can be used in these systems, including the use of computational tools to explore this space.	27 - 29 March, 2017	Gaithersburg	MD, US	151	\$374,362

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Nuclear and Facility Safety Programs Annual Workshop 2017	The workshop provided training courses related to Facility Representatives, Safety System Oversight, Fire Protection, and Readiness Reviews. The workshop also included a plenary session for senior Departmental management to speak to the safety oversight community; an awards ceremony to recognize exceptional performance by field element safety oversight professionals; sessions for presentation of best practices and lessons learned in fire safety, operations oversight, and engineering safety oversight; a venue for a face-to-face meeting of the Federal Technical Capability Panel; and a venue for the Safety Culture Improvement Panel.	1 - 5 May, 2017	Las Vegas	NV, US	192	\$284,765
Basic Research Needs Workshop: Catalysis Science to Transform Energy Technologies	The purpose of this workshop was to refresh the 2007 Basic Research Needs workshop report on Catalysis for Energy. Since that report, significant advances have occurred at the scientific interfaces that underpin catalysis, such as chemistry, physics, engineering science, biochemistry and materials science, and new opportunities have emerged, for instance the abundance of shale gas as a fossil feedstock, increased availability of lignocellulosic biomass as a renewable feedstock, and potential abundance of renewable electricity from solar, wind and hydroelectric resources. Other emerging opportunities are to: replace noble metal with non-noble metal catalysts, realize enhanced control of catalytic processes via nanoscale catalytic materials and confined reaction environments, capitalize on the higher selectivity of hybrid organic-inorganic catalysts, and reduce emissions of greenhouse gases.	8 - 10 May, 2017	Gaithersburg	MD, US	140	\$335,218
2017 Better Buildings Summit	The 2017 Better Building Summit focused specifically on the progress partners are making through their participation in the Better Buildings Initiative. It is an annual forum to convene partners to showcase solutions and share their proven strategies with others. The Summit also is critical to objectively understanding the challenges and successes of Better Buildings partners across sectors and DOE's Energy Efficiency and Renewable Energy offices. As partners reviewed each other's projects, partners provided	15 - 17 May, 2017	Washington	DC, US	177	\$335,544

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	information to DOE staff and program managers that helps improve program performance, enhancing the management, relevance, effectiveness, and productivity of the Better Buildings Initiative.					
16th Annual DOE Small Business Forum & Expo	The Secretary of Energy is in support of small business and encourages all Departmental Elements to examine and expand their contract opportunities with small businesses, including small disadvantaged, 8(a), woman-owned, service-disabled veteran-owned, historically underutilized business zones (HUBZones) businesses, as well as the Department's Mentor Protégé program. Additionally, the Secretary supports the Department's Facility Management Contractors (FMCs) to raise the bar and expand the diversity of subcontracts to small businesses. The 16th Annual DOE Small Business Forum & Expo was held in direct support of this secretarial expectation. The event featured plenaries, educational workshops, and an exhibit hall with over 100 exhibits/supporters, as well as business one-on-one matchmaking sessions.	16 - 19 May, 2017	Kansas City	MO, US	111	\$230,145
2017 EIA Energy Conference	The Energy Information Administration (EIA) Annual Energy Conference brought together approximately 950 thought leaders from industry, government, academia, media, and the general public to discuss current and future challenges facing energy markets and policymakers. Communication between EIA and its customers and stakeholders must be a two-way street if EIA is to successfully accomplish its mission to promote sound policymaking, efficient markets, and public understanding of energy and its interaction with the economy and the environment. This collaborative environment also ensures EIA's mission aligns with Federal Government energy initiatives that are more open, accessible, and customer-oriented.	26 - 27 June, 2017	Washington	DC, US	310	\$217,494
Bioenergy 2017/Bioenergy Program	Bioenergy 2017 was the 10th annual conference sponsored by DOE's Bioenergy Technologies Office (BETO). BETO's annual conference is the Office's flagship stakeholder event,	11 - 13 July, 2017	Arlington	VA, US	106	\$210,940

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Management Review	and it is the primary vehicle for the Office to communicate its accomplishments and strategic goals for the upcoming year. The conference was a unique event, which brought together experts from industry, academia, and government, from along the entire bioenergy supply chain. The forum provided an ideal opportunity for stakeholders to share their perspective on technical, market, and policy issues which will help advance the commercialization of an advanced biofuels industry. The event was also pivotal for helping to educate the banking and investment community, and help facilitate the alignment of investors with technology providers.					
Basic Research Needs for Future Nuclear Energy Workshop	The purpose of this workshop was to identify high priority basic research to enable future generations of nuclear energy systems. With this focus, the workshop goes well beyond the topics covered by the 2006 Basic Research Needs workshop report on Advanced Nuclear Energy Systems and the 2007 Basic Research Needs workshop report on Materials under Extreme Environments. The workshop and subsequent report identified basic research needs and opportunities for understanding and improving the performance of materials and chemistry in the extreme environments anticipated for future nuclear reactors for civilian energy generation. Since the earlier reports, the research tools to study materials and chemistry under extreme conditions have substantially advanced. The associated opportunities for discovery and characterization of new materials, phenomena, and chemical processes could be transformative both scientifically and technically.	9 - 11 August, 2017	Rockville	MD, US	136	\$310,834
The Energy Exchange 2017	The Energy Exchange fulfilled DOE training requirements for energy managers as outlined in Federal laws and regulations. The Energy Exchange aims to satisfy training requirements mandated by and address requirements outlined in the Energy Policy Act of 1992 (EPACT 1992), EPACT 2005, Energy Independence and Security Act of 2007, the National Energy Conservation Policy Act, Federal Building Personnel Training Act of 2010, National Defense Authorization Act of 2012,	15 - 17 Aug, 2017	Tampa	FL, US	121	\$343,933

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	Sections 2826 and 2815a, and the ESPC Challenge (Dec. 5, 2013), and Executive Orders 13221 and 13693. Attendees benefited from interactive learning credits, technology demonstrations, and training that was designed to illustrate how individual behavior impacts energy consumption. The event included an interactive tradeshow that facilitated hands on learning and specialized pre/post event workshops.					
Mo-99 Topical Meeting 2017	The 2017 Mo-99 Topical Meeting served as a forum for policy and technical experts to present, review and discuss domestic and international progress in converting medical isotope production from using HEU targets to LEU targets and to discuss a variety of technologies under development in the United States and worldwide to produce Mo-99 without the use of HEU. This meeting supports the NNSA's mission to provide a reliable supply of Mo-99 without the use of HEU and serves as a public workshop to provide updates on the Mo-99 Program Plan as required by the American Medical Isotopes Production Act of 2012. During side meetings, Federal and laboratory staff met with domestic and international entities to review ongoing projects, resolve barriers to implementation, and discuss policy and programmatic issues that may impact efforts made in the establishment of a reliable supply of Mo-99 without the use of HEU.	10 - 13 September, 2017	Montreal	Canada	38	\$132,318