**Energy-Water Nexus in the News**

**July 2015**

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***International***

**2015 REVENUES BELOW BUDGET,**

[US and Brazil on climate change](http://www.energyglobal.com/downstream/clean-fuels/02072015/US-Brazil-alliance/) **7/2 EnergyGlobal**

“…highlights from the joint statement made by the Brazilian and US governments on climate change… ‘The United States and Brazil will cooperate on managing issues at the nexus of water and energy, in the context of climate change.’”

[How jellyfish have become nature’s ultimate guerrilla protesters against power plants](http://www.washingtonpost.com/news/speaking-of-science/wp/2015/07/06/how-jellyfish-have-become-natures-ultimate-guerrilla-protesters-against-power-plants/) **7/7 Washington Post**

“‘Our coal-fired power stations are located by the sea because it takes a lot of water to cool them down,’ Israel Electric Corp spokeswoman Iris Ben-Shahal… ‘At that entry point of the water into the cooling systems, we have filters to keep foreign bodies out. The jellyfish, and other things like sea plants, stick to the filters and clog them.’ …In 2013, a giant swarm of moon jellyfish shuttered the world's largest boiling-water reactor, located in Sweden. The same thing happened at the plant in 2005…Researchers have asked the public to pitch in on the citizen-science research site, [Jelly Watch](http://www.jellywatch.org/), by reporting jellyfish sightings.”

[Mega-dams doing drastic harm to tropical biodiversity: study](http://news.mongabay.com/2015/07/mega-dams-doing-drastic-harm-to-tropical-biodiversity-study/#ixzz3fsKalKuW) **7/13 MongaBay**

[Thailand approves $1.8 bln in loans for farmers hit by drought](http://www.reuters.com/article/2015/07/13/thailand-economy-drought-idUSL4N0ZT3I620150713) **7/13 Reuters**

[TOTEX Approach Boosts Investments in the European Water Utility Services Market, says Frost & Sullivan](file:///%5C%5CDOE.LOCAL%5CDFSFR%5Chome_fors2%5CNoel.Bakhtian%5C2014-2015%5CIA1%20Nexus%20Strategy%5CTOOLS%5CIN%20THE%20NEWS%5CTOTEX%20Approach%20Boosts%20Investments%20in%20the%20European%20Water%20Utility%20Services%20Market%2C%20says%20Frost%20%26%20Sullivan) **7/16 Market Watch**

"Smart solutions have had a particularly positive impact on the market that is forecast to reach over $130 billion in 2020 …The nexus of regulations for water, energy efficiency and climate change will force European utilities to revise their strategies and support the industry convergence process…"

[Iraq To Slash 2016 Investment Budget](http://archives.mees.com/issues/1591/articles/52936) **7/17** **Middle East Economic Survey**

“Yet Minister of Oil ‘Adil ‘Abd al-Mahdi recently acknowledged that the security crisis, lack of cash and a shortage of water for reinjection in oil fields will curb Iraq’s oil output expansion.”

[Drought-Plagued Western States Play Politics with Water](http://www.scientificamerican.com/article/drought-plagued-western-states-play-politics-with-water/) **7/20 Scientific American**

[UAE partakes in OFID's 36th Ministerial Council meeting](http://menafn.com/1094289039/UAE-partakes-in-OFIDs-36th-Ministerial-Council-meeting) **7/23 menafn.com**

“The Director-General highlighted OFID's strategic repositioning to focus on the water-food-energy nexus, which he described as representing "the defining challenges of the 21st century." The nexus, he said, formed the lynchpin of OFID's strategic plan for the coming decade.”

[Water mafia: Why Delhi is buying water on the black market](http://www.bbc.com/news/world-asia-india-33671836) **7/28 BBC News**

[IRENA launches tool to help renewable project developers, including hydro](http://www.hydroworld.com/articles/print/volume-23/issue-4/departments/tech-notes.html) **7/28 HydroReview**

[Arab economy: Benefits of combined cycle conversion in KSA](http://www.arabnews.com/economy/news/783616) **7/30 Arab News**

“The interdependency, or nexus, of energy and water means that SEC’s combined cycle conversion program has benefits other than saving fuel. Although it is a desert kingdom Saudi Arabia consumes 91 percent more water, per captia, than the global average. Water is scarce — it is estimated the Kingdom requires almost a billion gallons a day of additional desalination capacity to meet demand and reserve margin needs by 2020.”

***Domestic***

# [**State issues toughest-in-the-nation fracking rules**](http://www.latimes.com/local/lanow/la-me-ln-state-issues-fracking-rules-20150701-story.html) 7/1 Los Angeles Times

“State officials on Wednesday formally adopted new rules governing hydraulic fracturing in California, setting in motion some of the toughest guidelines in the nation for the controversial oil extraction practice.”

[Murray Energy Corporation Sues Obama EPA for Illegal and Unconstitutional Rule Expanding Jurisdiction over Waters and Dry Land](http://www.prnewswire.com/news-releases/murray-energy-corporation-sues-obama-epa-for-illegal-and-unconstitutional-rule-expanding-jurisdiction-over-waters-and-dry-land-300107384.html) **7/1 PR Newswire**

[How NASA's Flying Laboratory Is Tracking California's Drought](http://www.bloomberg.com/news/articles/2015-07-06/how-nasa-s-flying-laboratory-is-tracking-california-s-drought)**7/6 Bloomberg Business**

“‘Water managers in these mountains always need to know how much snow pack there is, how quickly it's coming out, how quickly it’s going to come out, and how much total there is going to be,’ says Tom Painter, the principal investigator and lead scientist for the program. ‘We can let them know exactly how much water there is.’”

[UNC Charlotte grads’ wave-based water cleaner makes a splash in Paris](http://www.bloomberg.com/research/markets/news/article.asp?docKey=600-201507060607KRTRIB__BUSNEWS_57095_63880-1) **7/6 Bloomberg Business**

“They’re racing with companies from Boston to Australia to bring a wave-based desalinator to the market.”

[Perennial biofuel crops' water consumption similar to corn](http://phys.org/news/2015-07-perennial-biofuel-crops-consumption-similar.html) **7/6 Phys.org**

[Small Odessa company Dais Analytic part of clean energy effort in China](http://www.tampabay.com/news/business/small-odessa-company-dais-analytic-part-of-clean-energy-effort-in-china/2236290) **7/6 Tampa Bay Times**

“In April, the U.S. secretaries of commerce and energy took a trip to China, bringing with them representatives from more than 20 U.S. companies that are considered leaders in green technology and business… To clean water, Dais uses a proprietary plastic membrane to separate water molecules from pollutants and toxins, which Tangredi said renders the water nearly 1,000 times cleaner than the World Health Organization requires for drinking. The company also uses nanotechnology to remove moisture and heat from air, taking the pressure off cooling systems and saving energy…In 2009, the company announced a $200 million deal to deliver air filtration systems and a wastewater treatment plant in China, which the company predicted could bring up to 1,000 jobs to Pasco by this year. That hasn't happened, Tangredi said, as plans were slowed by the recession.”

[Mapping drought's impact on electricity generation](https://www.hcn.org/articles/hydropower-california-drought-water-energy-electricity-dams)**7/7 High Country News**

“Natural gas, wind and solar fill some of the hydropower deficit in California.”

[American Water to Participate in Accelerate Energy Productivity Dialogue](http://www.marketwatch.com/story/american-water-to-participate-in-accelerate-energy-productivity-dialogue-2015-07-07)**7/7 MarketWatch**

“…the nation’s largest publicly traded water and wastewater utility company, announced today that Aldie Warnock, senior vice president of External Affairs, Communications and Public Policy, will participate in Accelerate Energy Productivity 2030: A State & Local Dialogue in St. Paul, Minn. on July 16. Warnock will join with other industry leaders in a panel titled, “Bottom Line Dialogue: Exploring the Energy-Water Nexus” to discuss the interconnection and illustrate how electric and water utilities have shared advanced technologies and integrated parallel paths toward improved electric and water infrastructure. This event is being organized by the U.S. Department of Energy, Alliance to Save Energy and Council on Competitiveness as part of the Accelerate Energy Productivity 2030 initiative, which supports the President’s goal to double U.S. energy productivity over 2010 levels by 2030.”

[Fracking with propane proposed for Tioga County, NY](http://www.ithacajournal.com/story/news/local/2015/07/08/fracking-propane-proposed-tioga-county-ny/29863383/?utm_campaign=%5B%22%5B%2713901%27%5D%22%5D&utm_source=%5B%22%5B%27EnergyGuardian_email%27%5D%22%5D&utm_medium=%5B%22%5B%27email%27%5D%22%5D) **7/8 Ithaca Journal**

“A proposal to frack for natural gas using gelled propane and sand was announced Wednesday morning…Snyder Farm Group spokesman Kevin ‘Cub’ Frisbie said an application was filed Tuesday with the state Department of Environmental Conservation. The move comes after Gov. Andrew Cuomo's administration officially banned large-scale hydraulic fracturing on June 29… The well would get drilled into the Utica Shale formation, about 9,500 feet underground, according to Frisbie. ‘Then we will do a horizontal turn and go into the Marcellus Shale at approximately 4,400 feet,’ he said…Tioga Energy Partners said it would use gelled propane and sand to hydraulically fracture Marcellus Shale and release natural gas.”

# [**Massachusetts Gov. Baker files hydropower bill**](http://news.yahoo.com/massachusetts-gov-baker-files-hydropower-201116720.html) 7/9 Yahoo

# “The bill submitted to the state Senate requires Massachusetts utilities to work with the Department of Energy Resources to pursue long-term contracts for bringing hydropower into the state…The bill would allow Massachusetts to collaborate with New England states including Connecticut and Rhode Island in the procurement of hydropower. The three states announced during a recent regional energy a joint effort to seek power purchase agreements for hydropower or other types of renewable energy.”

[Indian Point: Pump malfunction shuts reactor](http://www.lohud.com/story/news/local/2015/07/08/malfunctioning-pump-shuts-indian-point/29888877/) **7/9 lohud**

[Tech Summit Looks for Innovative Solutions to California Water Woes](https://www.techwire.net/tech-summit-looks-for-innovative-solutions-to-california-water-woes/)**7/13 TechWire**

“The Water Technology and the California Drought summit in Sacramento on Friday convened some of the state’s top water and technology leaders for a daylong event on topics such as water use efficiency, desalination, the water-energy nexus and the challenges of commercializing water technology.”

[Tech Summit Looks for Innovative Solutions to California Water Woes](https://www.techwire.net/tech-summit-looks-for-innovative-solutions-to-california-water-woes/) **7/13 TechWire**

“The Water Technology and the California Drought summit in Sacramento on Friday convened some of the state’s top water and technology leaders for a daylong event on topics such as water use efficiency, desalination, the water-energy nexus and the challenges of commercializing water technology.”

[Duchesne County: Promised water critical to Utah's energy future](file://\\doe.local\DFSFR\home_fors2\Noel.Bakhtian\2014-2015\IA1%20Nexus%20Strategy\TOOLS\IN%20THE%20NEWS\the%20future%20of%20Utah's%20energy%20economy%20hinges%20on%20a%20dependable%20water%20supply%20—%20with%20as%20much%20as%20200,000%20additional%20acre-feet%20that%20may%20be%20necessary%20for%20future%20oil%20and%20gas%20development.) **7/14 Deseret News**

“…the future of Utah's energy economy hinges on a dependable water supply — with as much as 200,000 additional acre-feet that may be necessary for future oil and gas development. In 1963, Duchesne County became the final stepping stone on the path to the creation of the massive Central Utah Water Project, agreeing to give up nearly a half million acre-feet of water to be conveyed to the Wasatch Front in a complicated trans-basin diversion of Colorado River water. Ultimately, that water was supposed to be "returned" to the area, but projects that have been "deauthorized" over the years have left the county wanting...there is anywhere between 100,000 acre-feet and 300,000 acre-feet of available water in Flaming Gorge that the Uintah Basin could tap into, but the necessary infrastructure of pumping and piping leaves it untouched.”

[CalWave’s Underwater ‘Carpets’ Harness Wave Power](http://www.bloomberg.com/news/articles/2015-07-16/calwave-s-underwater-carpets-harness-wave-power)**7/16 Bloomberg**

Funding will help SUNY students develop energy, conservation research projects**7/20 Legislative Gazette**

“The final project, [led] by the University of Albany and the Department of Energy along with researchers from Stony Brook University and Brookhaven National Laboratory, will investigate the deployment of an atmospheric radiation measurement mobile facility. The project contributes to the Energy-Water Nexus Effort of the Department of Energy which investigates the relationship between energy and water. The project will develop a proposal for a deployment of an atmospheric radiation measurement mobile facility which will then provide experiential fieldwork for students to learn from.”

[Deflecting the scarcity trajectory: Innovation at the water, energy, and food nexus](http://dupress.com/articles/water-energy-food-nexus/)**7/27 Deloitte University Press**

“Shortfalls of water, energy, and food can sabotage economic and business growth as well as compromise social well-being. Fortunately, there are signs that the public sector, private sector, and NGOs are beginning to work together to take us off the scarcity trajectory.”

[A milestone for wind energy: Work underway on first offshore platforms in U.S. waters](http://www.washingtonpost.com/news/energy-environment/wp/2015/07/27/a-milestone-for-wind-energy-work-underway-on-first-offshore-platforms-in-u-s-waters/) **7/27 Washington Post**

[2 injection wells shut down after Oklahoma quakes](http://abcnews.go.com/US/wireStory/injection-wells-shut-curbing-activity-quakes-32741209) **7/28 ABC News**

[Can We Engineer Ourselves Out of the California Drought?](http://curbed.com/archives/2015/07/28/engineering-drought-california-desalination.php) 7/28 Curbed

“…the [HydroRevolution](http://waterfx.co/hydrorevolution/) plant being constructed … in Firebaugh, California, in the heart of the Central Valley… a much-needed solution to the dire problem of water usage and prolonged drought. When finished sometime next year, this solar-powered desalination plant will treat up to two million gallons a day, boiling out natural minerals and salts ‘like a kettle on the stove.’”

[Facing the energy water nexus is critical](http://usedtouseful.com/post/125368023575/facing-the-energy-water-nexus-is-critical)**7/29 Used to Useful**

“’Power generation facilities are big water users,’ said Heiner Markhoff, CEO, GE Water & Process Technologies. ‘We are at a point where technology providers can, and should, provide innovation that enables power generation facilities to reuse water and be more energy and water efficient. By minimizing operational costs through gained efficiencies, power plants will be able to maximize water usage and meet regulatory requirements. It’s a great opportunity for all involved to create a sustainable water plan.’”

***U.S. Government***

[Drought Sends U.S. Water Agency Back to Drawing Board](http://mobile.nytimes.com/2015/07/06/us/california-drought-sends-us-water-agency-back-to-drawing-board.html?referrer&_r=0) **7/5 New York Times**

“Drew Lessard stood on top of Folsom Dam and gazed at the Sierra Nevada, which in late spring usually gushes enough melting snow into the reservoir to provide water for a million people. But the mountains were bare, and the snowpack to date remains the lowest on measured record…’If there’s no snowpack, there’s no water,’ said Mr. Lessard, a regional manager for the Bureau of Reclamation, the federal agency that built and operates a vast network of 476 dams, 348 reservoirs and 8,116 miles of aqueducts across the Western United States…At Folsom Dam, workers are already planning for a summer without snowmelt. If the water level in the reservoir falls too low for water to flow through the dam, the bureau’s engineers plan to install pumps, at a cost of $2 million to $3 million for the summer, to push the water through. But that is just a short-term fix. In the long term, bureau employees and outside experts said, the agency will need to invest in new infrastructure that can efficiently capture, conserve and store water without relying on the springtime melting of Sierra Nevada snow.”

[Innovative Wave Power Device Starts Producing Clean Power in Hawaii](http://energy.gov/eere/articles/innovative-wave-power-device-starts-producing-clean-power-hawaii) **7/6 DOE EERE**

With support from the Energy Department and the U.S. Navy, a prototype wave energy device has advanced successfully from initial concept to grid-connected, open-sea pilot testing. The device, called Azura, was recently launched and installed in a 30-meter test berth at the Navy’s Wave Energy Test Site (WETS) in Kaneohe Bay, on the island of Oahu, Hawaii. This pilot testing is now giving U.S. researchers the opportunity to monitor and evaluate the long-term performance of the nation’s first grid-connected wave energy converter (WEC) device to be independently tested by a third party—the University of Hawaii—in the open ocean.

[The House Has Its Energy Bill, But Almost Nothing’s In It](http://www.nationaljournal.com/energy/house-comprehensive-energy-bill-passes-20150722) **7/22 National Journal**

“Paul Tonko, a New Jersey Democrat, said that he wished the bill had done more to address the water-energy nexus and that he also hoped to bring more hydropower and other renewables onto the bill.”

[Building a Stream Protection Rule](http://www.osmre.gov/programs/rcm/streamprotectionrule.shtm) **7/27 DOI OSMRE**

“The Office of Surface Mining Reclamation and Enforcement (OSMRE) has proposed a new rule for regulation of coal mining to take advantage of new advances in science, and to improve the balance between environmental protection and providing for the Nation’s need for coal as a source of energy. The proposed rule would better protect streams, fish, wildlife, and related environmental values from the adverse impacts of surface coal mining operations and provide mine operators with a regulatory framework to avoid water pollution and the long-term costs associated with water treatment.”

[Broad Energy Policy Modernization Bill Clears Senate ENR Committee](http://www.powermag.com/tk-modernization-act/) **7/31 Power**

“Broad, bipartisan energy legislation that would allocate federal funding to grid technology research and demonstration along with a number of other initiatives, including cybersecurity and the energy-water nexus, has cleared the Senate Energy and Natural Resources Committee with an 18–4 vote.”

***DOE***

[Video: The Future of Hydraulic Fracturing, Part 4: Managing an Abundant Resource](https://www.asme.org/engineering-topics/media/energy/video-future-hydraulic-fracturing-part-4-managing) **7/1 ASME**

“Paula Gant, Deputy Assistant, Secretary of Oil and Natural Gas with the U.S. Department of Energy, discusses the many challenges presented by the abundance of fossil fuels made possible by the hydraulic fracturing boom. Filmed at Hydraulic Fracturing 2015 in Houston, TX.”

[Energy Department Awards $18 Million to Develop Valuable Bioproducts and Biofuels from Algae](http://energy.gov/eere/articles/energy-department-awards-18-million-develop-valuable-bioproducts-and-biofuels-algae) **7/9 DOE EERE**

The Energy Department today announced six projects that will receive up to $18 million in funding to reduce the modeled price of algae-based biofuels to less than $5 per gasoline gallon equivalent (gge) by 2019.

[Energy Conservation Program: Energy Conservation Standards for Packaged Terminal Air Conditioners and Packaged Terminal Heat Pumps](https://www.federalregister.gov/articles/2015/07/21/2015-16897/energy-conservation-program-energy-conservation-standards-for-packaged-terminal-air-conditioners-and) **7/21 Federal Register**

***Solicitations***

**7/22 (*published*)** *PhD Project opportunities at Cranfield School of Management within the area of Complex Systems / Complexity*

[Modelling Innovation at Water Energy Food Nexus](http://www.slideshare.net/SoMResearch/modelling-innovation-at-water-energy-food-nexus?next_slideshow=1) [PhD Project] and [Modelling Innovation at the Water Energy Clothing Nexus](http://www.slideshare.net/SoMResearch/modelling-innovation-at-water-energy-clothing-nexus) [PhD Project].

**8/9** [*Postdoctoral Position: Resilience and vulnerability at the urban nexus of food, water, energy and the environment*](http://www.wageningenur.nl/en/Jobs/Vacancies/Show/-Postdoctoral-Position-Resilience-and-vulnerability-at-the-urban-nexus-of-food-water-energy-and-the-environment.htm)

A postdoctoral candidate with strong social science background and proven training and research interests in urban studies, social practices or networks and flows, and in at least one of the areas of water, food and energy, to join the project team of ENP, Wageningen University, in a collaborative project with SPRU/University of Sussex and the University of São Paulo on resilience and vulnerabilities at the urban Nexus.

**8/11** [*Request for Information on District Energy System*](https://vendor.dcwater.com/solicitations/solicitation1613.cfm)

The District of Columbia Water and Sewer Authority has posted an RFI on District Energy Systems. DC Water seeks to determine the maximum and minimum possible scopes, identify needed resources, and inform an evaluation of possible partnership structures to fund, design, build, and/or operate a district heating and/or cooling system that accesses the thermal energy available in sewage passing through the DC Water Main Pump Station.

**8/17** [*RFP: Development of a Simulator tool for Global Atlas for Renewable Energy – Bioenergy Simulator*](http://www.irena.org/DocumentDownloads/Procurement/RFP-2015-21%20Global%20Atlas%20bioenergy.pdf)

IRENA has issued a request for proposals (RFP) for the development of a 'bioenergy simulator'…to be integrated to the Global Atlas for Renewable Energy. Significant work has already been done by the agency on the framework and data gathering. The successful contractor would help translate this framework into a functional WPS which would be integrated into the current code structure of the Global Atlas for Renewable Energy.

**9/12** [*Vote to Select Popular Choice Winner for MIT Climate CoLab Energy-Water Nexus Contest*](http://climatecolab.org/community/-/blogs/finalists-selected-vote-to-select-popular-choice-winner-2)

The public is invited to cast their votes for the one proposal in each contest that they would most like to see win. The author with the most votes in each contest will win the contest's Popular Choice award and, along with the Judges' Choice winners, will receive a special invitation to attend select sessions at MIT's SOLVE Conference and present their proposals before key constituents at the MIT Crowds & Climate conference on October 5 & 6, where a $10,000 Grand Prize will be awarded. The Energy-Water Nexus contest can be found [here](http://climatecolab.org/web/guest/plans/-/plans/contestId/1301501).

***Upcoming Events***

**August 15-16** [San Francisco, CA, US] The Water Innovation Project is excited to power [*The 2015 Water/Energy Nexus Hackathon*](http://www.waterinnovationproject.com/event/waterenergy-nexus-hackathon/)! Beginning August 15, 2015 in San Francisco, the Hackathon will bridge a gap between technology, water and energy – allowing students, professionals and technology enthusiasts the opportunity to showcase their talents and innovation over a 36 hour period. The hackathon is not about breaking into systems but is more akin to a live science fair, focused on leveraging data to help us better understand the dynamics of the water/energy nexus, using the latest software available

**August 18-19** [Idaho Falls, ID] The second annual [*Intermountain Energy Summit*](http://www.intermountainenergysummit.com/) has a theme this year of Pursuing Breakthroughs: The Energy-Water Nexus.”

**August 20-21 [Dar es Salaam, Tanzania]** The [*Youth Conference on Energy and Climate Change*](http://www.chikulupi.com/2015/06/appl-african-youth-conference-on-energy.html) will provide a platform for young Africans to extensively discuss, share and learn energy and climate change related issues. Iissues to be discussed involve energy, climate and sustainable development include the nexus of climate, energy and water and energy access for all; emerging trends and solutions under discussion and discuss key issues revolving the energy and climate change scenes around the world.

**August 23-28** [Stockholm, Sweden] [*World Water Week*](http://www.worldwaterweek.org/) in Stockholm, organized by SIWI, is the annual focal point for the globe’s water issues. This year is the jubilee year for both the Week and the Stockholm Water Prize. The theme is [**Water for Development**](http://www.worldwaterweek.org/programme/#thematic-scope). In 2014, over 3,000 individuals and 270 convening organizations from 143 countries participated in the Week.

**August 25-26** [Stockholm, Sweden]The Royal Swedish Academy of Agriculture and Forestry (KSLA) will host the Global BioEnergy Partnership (GBEP) Activity Group on Bioenergy and Water AG6 *workshop on Examples of Positive Bioenergy & Water Relationships* (based on the results of the [related on-going call](#GBEP)).

**September 7-11** [Norwich, UK] The University of East Anglia is hosting a [*Water Security for Policy Makers and Practitioners*](http://blogs.kcl.ac.uk/water/files/2015/07/Water-Security-Short-Course.pdf) short course. Participants will acquire a wide variety of tools and analytical frameworks from a variety of disciplines and an extended understanding of this key national and global issue. They will leave the course with an ability to critically assess and address current water security policy and to gain an appreciation of the relations between water security and energy, climate, food, human and national security.

**September 24** [Cranfield, UK] Cranfield University is hosting the [*4th Low Energy Wastewater Treatment Systems and Wastewater Network Conference*](http://www.cranfield.ac.uk/lowenergy).

**October 7-9, 2015** [Las Vegas, U.S.] [*Water Smart Innovations ‘15*](https://www.watersmartinnovations.com/)will host water professionals from around the globe to share their expertise and experiences in urban water efficiency at this annual conference. Potential topics include the water/energy production nexus.

**November 19, 2015** [Austin, TX, US] By 2050 agriculture will be charged with feeding 8 to 9 billion people, while facing increased competition for limited natural resources, evolving social preferences, expanding global markets, and climate uncertainty. [*Navigating Agriculture through the Water-Energy-Food Nexus Symposium*](https://agriliferegister.tamu.edu/index.cfm/productDetails/ProductID/1820/) will include a distinguished panel of experts as they discuss these and other issues facing agriculture and the rural communities that support this vital industry. Learn how ‘nexus thinking’ can be used to assess risk and identify externalities associated with natural resource challenges.

**January 19-21, 2016** [Washington DC, U.S.] The [*16th National Conference and Global Forum on Science, Policy and the Environment: The Food-Energy-Water Nexus*](https://thefoodenergywaternexus.wordpress.com/) will address the interconnected systems involving food, water and energy is critical to achieving solutions to one of the most pressing issues facing our planet. The conference will address how to provide food, energy and water for a population of 9 billion by mid-century without overwhelming our environment.

***Reports***

In order of publication date, marked with “**~NEW~**” for newly added reports.

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| --- | --- | --- | --- |
| **Organization** | **Publish Date** | Title | **Scope** |
| GAO | 2011/03 | [Energy-Water Nexus: Amount of Energy Needed to Supply, Use, and Treat Water Is Location-Specific and Can Be Reduced by Certain Technologies and Approaches](http://www.gao.gov/products/GAO-11-225) | U.S. energy for water: overview/opportunities |
| ACEEE | 2011/05 | [Addressing the Energy-Water nexus: A Blueprint for Action and Policy Agenda](http://www.aceee.org/white-paper/addressing-the-energy-water-nexus) | U.S. energy-water efficiency opportunities |
| Lawrence Berkeley National Lab | 2011/09 | [Water and Energy Wasted During Residential Shower Events: Findings from a Pilot Field Study of Hot Water Distribution Systems](http://eetd.lbl.gov/publications/water-and-energy-wasted-during-residential-shower-events-findings-pilot-field-study-hot-water-distri) | Energy for water: residential hot water |
| DOE | 2012/04 | [An Assessment of Energy Potential at Non-Powered Dams in the United States](http://energy.gov/eere/water/downloads/assessment-energy-potential-non-powered-dams-united-states) | U.S. energy from water: hydropower |
| IEA | 2012/11 | [Water for Energy: Is Energy Becoming a Thirstier Resource? (excerpt from World Energy Outlook 2012)](http://www.iea.org/media/weowebsite/2012/WEO_2012_Water_Excerpt.pdf) | Global water for energy: overview |
| World Bank | 2013/06 | [Thirsty Energy](http://www.worldbank.org/en/topic/sustainabledevelopment/brief/water-energy-nexus) | Global water for energy: overview/opportunities |
| CRS | 2013/08 | [Energy-Water Nexus: The Energy Sector’s Water Use](http://fas.org/sgp/crs/misc/R43199.pdf) | U.S. water for energy: overview |
| CRS | 2013/08 | [Energy-Water Nexus: The Water Sector's Energy Use](http://fas.org/sgp/crs/misc/R43200.pdf) | U.S. energy for water: overview |
| Water in the West | 2013/08 | [Water and Energy Nexus: A Literature Review](http://waterinthewest.stanford.edu/resources/publications-directory/water-energy-literature-review) | U.S. nexus: overview |
| BP | 2013 | [Water in the Energy Industry: An Introduction](http://www.bp.com/content/dam/bp/pdf/sustainability/group-reports/BP-ESC-water-handbook.pdf) | Global freshwater for energy: overview |
| Utah State University | 2014/03 | [Heterogeneous Residential Water and Energy Linkages and Implications for Conservation](http://ascelibrary.org/doi/abs/10.1061/%28ASCE%29WR.1943-5452.0000340) | U.S. nexus: household modeling |
| DOE | 2014/04 | [New Stream-reach Development: A Comprehensive Assessment of Hydropower Energy Potential in the United States](http://energy.gov/eere/water/downloads/new-stream-reach-development-nsd-final-report-and-fact-sheet) | U.S. energy from water: hydropower |
| DOE | 2014/06 | [The Water-Energy Nexus: Challenges and Opportunities](http://energy.gov/downloads/water-energy-nexus-challenges-and-opportunities) | U.S. nexus: overview/opportunities |
| ECN | 2014/09 | [Understanding the Energy-Water Nexus](http://www.ecn.nl/docs/library/report/2014/e14046.pdf) | Global water for energy: overview |
| **~NEW~**ACEEE | 2014/11 | [Watts in a Drop of Water: Savings at the Water-Energy Nexus](http://aceee.org/sites/default/files/watts-in-drops.pdf) | U.S. energy for water: energy intensity and coupled efficiency savings |
| SBC Energy Institute | 2014/11 | [Introduction to the Water and Energy Challenge](http://www.sbc.slb.com/SBCInstitute/Publications/Water.aspx) | Global water for energy: overview |
| UN World Water Assessment Programme | 2014 | [The United Nations World Water Development Report 2014: Water and Energy](http://www.unwater.org/worldwaterday/world-water-development-report/en/) | Global nexus: overview/themes/regional/opportunities |
| STEPS Centre | 2014 | [Not Another Nexus? Critical Thinking on the New Security Convergence in Energy, Food, Climate and Water](http://steps-centre.org/publication/another-nexus-critical-thinking-new-security-convergence-energy-food-climate-water/) | Global energy-water-food-climate nexus: framing |
| IRENA | 2015/01 | Renewable Energy in the Water, Energy & Food Nexus | Global energy-water-food nexus: overview/tools/cases |
| Mississippi State University | 2015/01 | [Energy and water autarky of wastewater treatment and power generation systems](http://www.sciencedirect.com/science/article/pii/S1364032115000659) | Global energy-water nexus |
| Wilson Center | 2015/02 | [China's Water-Energy-Food Roadmap](http://www.wilsoncenter.org/publication/global-choke-point-report-chinas-water-energy-food-roadmap) | China water-energy-food nexus |
| Pacific Institute | 2015/02 | [The Water Footprint of California’s Energy System, 1990–2012](http://pacinst.org/publication/the-water-footprint-of-californias-energy-system-1990-2012/) | California water for energy: footprint |
| UN | 2015/03 | [World Water Development Report](http://www.unwater.org/publications/publications-detail/en/c/281166/): Water for a Sustainable World | Global water for energy: overview/opportunities |
| US DOE | 2015/03 | [Wind Vision: A New Era for Wind Power in the United States](http://energy.gov/windvision) | U.S. wind power: water consumption |
| Pacific Institute | 2015/03 | [Impacts of California’s Ongoing Drought: Hydroelectricity Generation](http://pacinst.org/publication/impacts-of-californias-ongoing-drought-hydroelectricity-generation) | California energy from water: hydropower |
| **~NEW~**ACEEE | 2015/06 | [A Survey of Energy Use in Water Companies](http://aceee.org/sites/default/files/water-company-energy-use.pdf) | U.S. energy for water: energy to treat/distribute survey results |

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