



Spotlight on States and Communities

As hopes for comprehensive national energy policy melted away this summer, focus shifts back to states and communities.



Maggie Molina, ACEEE

Without action from Congress, states and local communities will continue to forge ahead with a multitude of strategies to make their economies more energy-efficient and environmentally sustainable. It's nothing new in fact; states have guided the nation's energy policy for decades with innovative and aggressive energy efficiency solutions. Local communities are also stepping forward, complementing state action to engage local leaders and show the benefits of energy efficiency at the "ground level."



Michael Sciorino, ACEEE

This year we reached a new high point in state energy efficiency policy. Twenty-four states—double the number from 2006—now have long-term energy efficiency targets, called Energy Efficiency Resource Standards (EERS), that require electric or natural gas utilities or other program administrators to meet a percent of their energy sales through efficiency savings. The 24 states deliver over half of the retail electricity produced in the United States and with state EERS policies now on the books, the



Eric Mackres, ACEEE

country will save nearly 6% of our total retail electric sales by 2020. In order to achieve these targets, states are forging ahead with ambitious programs to retrofit homes and buildings, foster competitive businesses, and begin transferring to a low-carbon economy through cost-effective energy efficiency investments.

States continue to raise the bar in their energy efficiency each year, leaving some states at risk of being left behind. In 2009, states budgeted about \$4.3 billion for energy efficiency programs, more than double the expenditures made in 2006. However, about 75% of these investments are concentrated in only 15 states. Enormous potential remains in every state to use cost-effective energy efficiency as a tool for economic

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Is the Climate Right for Efficiency in China?

Summer Study participants were treated to two insiders' take on energy efficiency in China.



Mark Levine, LBNL and William Chandler, Transition Energy

Mark Levine was recently the director of the Environmental Energy Technologies Division at

Lawrence Berkeley National Laboratory (LBNL) and is now working full time with the China Energy Group at LBNL, a group Levine founded in 1988.

William Chandler is an expert in energy and climate at the Carnegie Endowment for International Peace, as well as the president of Transition Energy and the co-founder of DEED China—private companies with energy efficiency investments in China. Chandler was a 1992 ACEEE Champion of Energy Efficiency.

Both Levine and Chandler provided lots of information about energy efficiency policy and reality in China—past, present, and future. But more important, they each shared a wealth of insight that only comes with a long history of lived experience interacting with people developing energy efficiency in China. Imagine the amount of time they've spent in airplanes during the past 25 years!

One insight from Tuesday night's plenary is the extraordinary progress China has made since 1980 to curb greenhouse-gas emissions, and lower energy intensity in an economy that has grown by leaps and bounds. Between 1980 and 2002, China's GDP increased by a factor of 8, while its energy use increased by a factor of only 3. Between 1980 and 2002 energy intensity, or energy per unit of GDP decreased about 5% per year. From 2002 to 2005, energy intensity increased about 5% per year, mainly due to a huge increase in the production of steel and cement. But energy intensity then began to decrease again, dropping 16% between 2005 and 2009.

Looking to the future, Levine outlined a likely scenario where China's total energy use and greenhouse gas emissions

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development by saving consumers money, which can be reinvested in local and state economies.

ACEEE continues to support energy efficiency at the state level through a host of research and policy analysis tools. We publish an annual State Energy Efficiency Scorecard and maintain a comprehensive and up-to-date database of state energy efficiency policies. We also provide targeted policy and technical assistance and state efficiency potential assessments through our "State Clean Energy Resource Project." This year we completed in-depth reports for North Carolina and Arkansas and began work in Missouri, which will be our tenth state study completed over the past four years.

Local and regional metropolitan efforts for energy efficiency are expanding faster than ever before. Federal grants of \$3.2

billion from the 2009 stimulus bill are helping local governments improve their energy planning capacity and implement new energy efficiency programs. The Sustainable Communities Partnership, a joint effort between three federal agencies, U.S. DOE, EPA, and HUD is attempting to integrate energy efficiency with local urban planning, housing, transportation, and environmental policies. In 2010, ACEEE for the first time launched local and community energy efficiency support efforts, including technical assistance to local and state stimulus grantees as members of the DOE Technical Assistance Center and targeted research and technical assistance to local leaders such as the Greater Cincinnati Energy Alliance.

Is the Climate Right for Efficiency in China? continued

will continue to grow, but then level off in 20 years or so, and then begin a slow steady decrease. But at its peak Chinese energy use per capita will stay well below that of the United States and below that of Europe. China's emissions will not overwhelm us, according to Levine, because of several reasons, but mainly due to saturation in the appliance and transportation markets in China.

Chandler urged cooperation with China in regards to energy efficiency policy, and warned that a lack of cooperation, "I won't do anything if you don't", will be a suicide pact. We need to better explain to the west China's successes and commitment

to reduce energy use and carbon emissions, encourage China to be more accurate and transparent with its energy and emissions data, remove barriers to business between the United States and China, and resolve diplomatically the rift in relations between China and other nations that are part of the Copenhagen climate agreements.

Can China do its part to mitigate climate change and obtain energy security for itself and other nations? Levine and Chandler both say, "Yes." But only if the United States and other developed and developing nations do their part as well.

Congratulations to ACEEE's 2010 Champions of Energy Efficiency

The American Council for an Energy-Efficient Economy (ACEEE) presented its three Champion of Energy Efficiency Awards last night. The awards recognize leadership and accomplishment in the energy efficiency field. Winners are selected based on demonstrated excellence in program implementation, research and development, energy policy, or private sector initiatives. The winners for 2010 are:

Northwest Power and Conservation Planning Council for nation-leading power planning efforts that have already resulted in nearly 4,000 average megawatts of energy savings and that will, over the next 20 years, provide 85% of the Northwest's needs for new electric resources. Tom Eckman received the award on behalf of the Council. Tom joined the Council in 1982.

Jeff Genzer for over 25 years of effective work on energy efficiency policies and programs, including work with state energy offices and the federal government on such topics as building codes, performance contracting, and energy efficiency

programs funded by the American Recovery and Reinvestment Act (ARRA)—in particular, for playing a critical role in addressing implementation challenges under ARRA. Jeff was unable to be here for the award, so it was accepted on his behalf by John Wilson.

Wal-Mart for leadership on energy efficiency including using innovative energy-saving technologies and designs in its stores, enhancing efforts to sell energy-saving products to its customers, assisting its suppliers with reducing their energy use, and sharing best practice ideas with others. Walmart's Michael Gardner accepted the award.

The winners were nominated by their peers, and selected by a committee of ACEEE's Board of Directors from an impressive group of over 40 nominations. Selection criteria were based on each nominee's impact, innovation, and leadership in the energy efficiency field.

Low-Carbon Transportation to Camp

Four Summer Study veterans and two newbies arrived in Monterey Harbor aboard “Sonata”, a Morgan 38’ sloop. They left the dock in Sausalito on Saturday morning and sailed under the Golden Gate southbound on an ebb tide. Thirteen hours later at midnight, they arrived in Santa Cruz harbor, where they spent the night aboard. After breakfast on the beach, they left for the cruise across the bay to Monterey. Along the way, they detoured to watch a pod of humpback whales and hundreds of dolphins frolicking in the waves (or feeding or mating... it’s hard to tell). After arriving in the harbor and renting a slip for the week, they took a taxi to Asilomar with enough time for a welcome shower before dinner and the opening plenary.

Sonata will be going out again Wednesday afternoon for more whale watching. The crew will shove off on the return voyage after lunch on Friday, planning to arrive back in Sausalito by Saturday night or Sunday morning (depending on wind and and waves).



Is this the beginning of a new trend for travel to energy camp?

**Crew (from left to right, not counting the kids)
Back: Lisa Heschong, Doug Mahone (Captain),
Tyler Mahone, Rob Bordner Front: Robert Kasman, Pierre
Landry Visiting kids: Jennifer Holmes’ two very cute
daughters**

Sustainable Asilomar

If you attended past Summer Studies, you may have noticed that Asilomar is being managed by a new concessionaire, Aramark Parks & Destinations. Aramark is a leading operator of conference centers, resorts, and tourist destinations, such as the Hearst Castle (San Simeon), and national and state parks. Aramark was awarded a 20-year contract to operate Asilomar in January 2009, taking over from Delaware North, who operated Asilomar for the past ten years.

When Aramark took over operation of 312 Asilomar guest rooms (located in 30 buildings spread out over 107 acres), they did not retain Delaware North’s ISO 14001 environmental management certification. Jane Beattie, Director of Interpretation and Environmental Programs and Ed Schaupp, Director of Facilities, are responsible for developing new procedures that will regain that certification.

Beattie and Schaupp spoke to the Grapevine staff about six key environmental impacts that they plan to mitigate or influence at Asilomar:

1. Fireplace emissions. Aramark promotes using compressed wood and only provides supplies on request.
2. Energy use. Delaware North set a high baseline (for low energy use), but Aramark wants to go beyond that, including finding applications for LEDs.
3. Water use. Asilomar is under mandate by the state to cut its water use by 2015. Monterey County is one of the driest areas in the country, and the local Carmel River watershed contains an endangered salmon run. Asilomar is making many changes to save water, from removing old galvanized irrigation pipes, adding drought tolerant native plants, using melted ice, and asking dining hall visitors to walk for water instead of providing carafes. Since laundry is the single largest use of water

at Asilomar, they have installed a gray water filtration system and laundry ozonation.

4. Solid waste diversion. Currently Asilomar has a 50% diversion rate, but their goal is 90%. Currently they compost 12-15 tons of food each month!

5. External and internal communications. “We’ve got to get the message out to guests about Aramark’s green programs,” said Beattie. “We are updating our guest directories with environmental information on towel reuse and water conservation tips. We’re also communicating with employees, so they understand our conservation programs and the impacts of their work.”

6. Upgrade facility appliances, some of which are over 50 years old!

“One of the greatest challenges to improving the energy efficiency of the historic structures is the fact that many of our buildings are on the Federal Register of Historic Buildings,” said Schaupp. “We are extremely limited in terms of our upgrade options. For example we can’t add insulation to the existing roofs and PV conflicts with historic and aesthetic preservation.” According to Schaupp, “Asilomar has the potential to be an Aramark flagship, mentoring and supporting other Aramark resort staff to be good environmental stewards, including the sales staff, executive chefs, and maintenance staff. Asilomar is a testing ground for sustainable practices and amenities. They are committed to a seventh generation mentality, and I’m excited to work for a company that’s continuously improving.”

Schaupp and Beattie are a dynamic team, combining environmental stewardship with the day-to-day operation and maintenance of a world-class natural and architectural wonder. Their work provides a living example for attendees from all over the world and helps to preserve these wonders for future generations of Summer Study attendees.

ACEEE Student Scholarship Winners

ICF International, Portland Energy Conservation, Incorporated, and the ACEEE staff and Board sponsored Summer Study scholarships for seven undergraduate and graduate students.

Wayne Leighty is working with Southern California Edison on smart transportation planning, and with Alan Meier at the UC Davis Energy Center.

Tim Gates is currently at Evergreen State College, where he is working on a feasibility study for a biomass gasification plant, and studying all aspects of renewable energy.

Alireza Bozorgi is completing his PhD thesis on the financial performance of energy efficiency investments in existing commercial building energy systems.

Bethany Robinson is presenting a paper at Summer Study on HVAC education for engineers working on energy management systems.



Amy Nagengast is a Civil Engineer and a summer intern at PG&E's solar group.

Brian Coffey is working on an optimized chilled water system controls at U.C. Merced.

Jennifer Theodore is studying how residential rental property owners manage energy efficiency.

Department of Rosy Predictions

Is the best way to begin an energy efficiency conference with overoptimistic predictions of energy savings projections? If yes, then this ACEEE summer study excelled. If it didn't start on Sunday evening, then it certainly began with an 8:30 AM presentation about Japan's energy policies. Japan—already noted as one of the most energy-efficient economies—plans to cut 2020 emissions 30% below 2005 levels. But can it? Chiharu Murakoshi showed that the plan was “incredible” by both overestimating savings and underestimating costs. Meanwhile, two Ministries are struggling for control of the carbon emissions

policies. You can expect that Japan will modify the plan by substituting some of the domestic energy savings with benefits from emissions trading (maybe soon if it gets a new government).



Chiharu Murakoshi and Hidetoshi Nakagami of Jyukankyo Research Institute, Inc.

Thursday, 2 pm: Informal Session: Field Trip to the Hummingbird House (and the Water Heater Museum!)

Sign up at Surf & Sand for a trip to Larry Weingarten's “Hummingbird House” and Water Heater Museum in Salinas during the Thursday 2-4 pm Informal Sessions. Contact Jacob Talbot (ACEEE) for more information: 719-661-1236. Please sign up in Surf and Sand. We will carpool up.

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Yoga for an Energy Efficient Body & Mind

Come retrofit your brickhouse. Thursday morning 30 minutes before breakfast with “Chakra Girl,” ACEEE's resident yoga teacher. No mat? No worries—standing poses only to reinforce your building's foundation. Meet in front of Crocker Hall 7 am.

Carbon Nation:

If you'd like to screen the film at your university, company or library, please contact: chrisna@carbonnation.tv

Tell her you saw it, or heard about it, at ACEEE, at Asilomar.

Aquarium reminder

Buses to the Monterey Aquarium leave starting at 7pm from the flagpole area (on the beach side of the Hearst Social Hall.) Don't forget to bring your ticket!

Taking Care of Business

The ACEEE Registration Office Located in Surf and Sand will close today at noon, and reopen at 7:30 am on Thursday. If you need to register, purchase meal tickets or have other office needs, please visit us before noon today.