

Letter from the AESP Chair

Checking Off "All Of the Above"

You may have missed it. You may have been wrapped up in the fabulous networking, learning (and maybe less fabulous singing) at the 24th AESP National Conference in January when it happened. There was a little event called the State of the Union address that occurred while many of us were in San Diego.

While I missed the address itself, I reviewed the transcripts, and as I always do, I paid particularly close attention to the themes around energy. I was struck by the continued use of the term "all of the above" when it comes to our nation's energy policy. The POTUS's call for an "all of the above" policy was a mandate to focus not only on the ever-so-sexy energy efficiency, but also nuclear power, natural gas, renewable resources and clean coal. For us, I think "all of the above" takes on its own meaning.

There has been a lot of talk about where opportunity has been dwindling in our field. People talk about moving away from residential segments, retail lighting programs, among others, and turning our focus instead to behavioral programs, technology-enabled opportunities that come with Smart Grid and automation, and of course that stalwart area, industrial. But as a fellow president (small "p" noted) I must agree with the President and argue for an "all of the above" approach in energy efficiency too.

While it is true that some opportunities are getting harder to reach, it is not true that we have fully transformed any of our markets. We still have inefficient products being purchased at retail, we still have poorly insulated homes and buildings, we still operate our buildings inefficiently and make poor and misinformed choices around our energy behaviors. So, yes, it might be getting harder, but we have tools to address this. We have sophisticated marketing and analytic tools that we can use to more deeply understand how to reach those lingering customers, we have new technologies that hold great promise to automate or ease customers' interactions with energy (many manufactured by AESP members), we have new ways to talk to and communicate with customers, all of which offer us continued opportunity to reach every customer and every segment in some way.

Until we can say we are "done" — all sockets switched out, all equipment operating at full efficiency, all customers making wise energy choices — we cannot afford to overlook a market because it has become challenging. Instead, we must work smarter, use new tools and approaches, and learn from and mirror other industries that are leveraging data and new marketing tools to speak to and inspire customers. We must accept that "all of the above" is the right answer when we are faced with the question of "where do we focus now?" Are you up to the challenge?

Share   

Industry News



Sara Van de Grift
AESP Chair

MARCH 2014

Upcoming Events

Chapter Events

Midwest Chapter
March 13 — EP Training & Sage Glass

Lone Star Chapter
March 19 — Networking Event

Rocky Mountain Chapter
March 20 — Energy Hour

Wisconsin Chapter
March 25 — Happy Hour
April 17 — Cost Benefit Tests
Presentation
May 27 — Happy Hour

Brown Bags

March 13
[Why Bother? Is Energy Efficiency Really Worth It?](#)

June 12
[Integrating Demand Response and Renewables](#)

If you would like to organize a Brown Bag, please contact Kisha Gresham at kisha@aesp.org.

AESP Training Courses

[Leadership Training for Exceptional Team Performance](#)
Baltimore, May 14-15, 2014

[Strategic Marketing of your Energy Efficiency Programs](#)
Baltimore, May 14-15, 2014

If you would like to schedule an onsite training please contact Suzanne Jones at (480) 704-5900 or suzanne@aesp.org. For more

"Predictive Energy Optimization: Smart Buildings, Smart Grids, Smart Cities"
"Diving Into 'Deep Retrofits'"
"New Study: We Did AMI All Wrong. Here's a Better Way"
"Small But Enthusiastic Band of Users Finds Big Savings in 'Dynamic Pricing'"
"What Does the Google Acquisition of Nest Mean for DR?"
"Energy Efficiency Investments Reap Three Times the Economic Rewards"
"Large-Scale Energy Storage to Reduce Load in New York City"
"10 US Cities Plan Coordinated Attack on Building Energy Waste"
"EPA and Freddie Mac to Cut Carbon Pollution and Increase Affordability of Multifamily Buildings"
"Energy Efficiency: When Will Consumers Realize the 60-Cent Light Bulb Wasn't a Bargain?"
"Why You Should Be Paying Attention to Seattle"

Featured Articles

Energy Information Systems: Four Lessons from the Field

AESP News

Industry News

The following executive summaries of current news items were written for Strategies after being compiled from various news sources.

Predictive Energy Optimization: Smart Buildings, Smart Grids, Smart Cities

CleanTechnica (02/12/14) Fonts, Alberto

NV Energy is among the earliest utility providers to incorporate predictive energy optimization. In 2013, the utility provider unveiled a new energy management program called mPowered that helps large power consumers like casinos and resorts become smart buildings. NV Energy uses cloud-based energy management software to directly communicate and exchange data with its customers to increase energy efficiency. The program enables the utility to send signals to buildings and make real-time adjustments to energy consumption. A major customer of mPowered is the City of Las Vegas, which has deployed energy management software in all of the city's government buildings, including its award-winning LEED Gold city hall. The city is observing measurable energy and peak load savings and uses data analytics to monitor its energy consumption. Ideally, more Internet-connected buildings will use Web-based Software-as-a-Service products that instantly capture information about weather forecasts, building occupancy, energy prices, tariffs, and demand response signals. The system uses those inputs to run numerous simulations to determine the most efficient HVAC operating strategy for the next 24 hours. It communicates with the building management system to make such changes as adjusting air handle units, resulting in significant financial savings without affecting occupant comfort.

Share    | [Return to Headlines](#)

Diving Into 'Deep Retrofits'

National Real Estate Investor (02/07/14) Mattson-Teig, Beth

The nonprofit Rocky Mountain Institute (RMI) has unveiled a new guide for owner-occupants to help companies more accurately determine the value of deep energy retrofits. RMI says deep energy retrofits provide more energy savings compared with conventional retrofits and other building efficiency upgrades, possibly curbing a building's energy consumption by up to 50 percent. AT&T collaborated with RMI in 2013 to conduct a deep dive analysis of a model building in its real estate portfolio. A key part of the study was ensuring that the actions AT&T would take would optimize energy use while also providing comfort for employees and be non-distracting, says AT&T's John Schinter. For instance, AT&T was able to optimize on-off and dimming controls for different sections of a floor rather than control lighting systems generally for an entire floor, based on identified patterns of space use. RMI's guide contains a detailed list of 27 best practices encompassing the launch phase through design, finance, execution, and operations. Scott Muldavin, an RMI senior advisor and co-author of the guide, notes that a retrofit may produce 15 percent to 20 percent savings based only on reduced energy costs, but when

information about the AESP Institute, [click here](#).

Conferences

Spring Conference
Marketing & Implementation: Finding New Pathways to Reach Program Goals
Baltimore
May 12-14, 2014

Summer Conference
Evaluators & Implementers: Merging on the Energy Efficiency Highway
San Francisco
August 4-6, 2014

25th National Conference
Orlando
February 9-12, 2015

WELCOME & THANK YOU to our New and Renewing Members!

New Members

Adam Stein, Gridium
Adrian Tuck, Tendril
Andrew Grassell, Chelan County PUD
Brad Langley, Tendril
Caitlin Moriarty, Georgia Power
Justin Segall, SimpleEnergy
Karl Sowa, SimpleEnergy
Laura Berendts, ARCA
Mike Brennan, Envirobrite
Richard Hart, EnerNOC
Richard Meisenhelder, Honeywell
Rohit Arora, Ozzy Fortune Group Pty Ltd
Sandrine Schultz, US Navy
Sharon Talbott, PeoplesGrid
Shauna Duffin, Philips Lighting
Tom Arnold, Gridium

New Group Members

Gridium
Philips Lighting
Tendril

Renewing Group Members

ComEd
EnerNOC
Manitoba Hydro
National Energy Foundation
PECO
Public Service Company of Oklahoma

Follow:



AESP is a member-based association dedicated to improving the delivery and implementation of energy efficiency, energy management and distributed renewable

other values are included, such as subsidies, cost savings due to greater employee productivity, or cost savings related to employee health expenses, the impact of a retrofit changes significantly.

Share    | [Return to Headlines](#)

New Study: We Did AMI All Wrong. Here's a Better Way

SmartGridNews.com (02/13/14) Berst, Jesse

A recent study conducted by the Smart Grid Research Consortium (SGRC) suggests that advanced metering infrastructure (AMI) paired with low-cost conservation voltage reduction (CVR) enabled with smart meters can provide a favorable business case for many utilities with little risk. "The great thing about this new strategic approach is that we can verify costs and benefits of individual AMI and CVR elements with considerable certainty prior to initiating the project," says SGRC's Jerry Jackson, who wrote the whitepaper. He also notes that low-cost CVR can be developed concurrently with AMI implementation. This reduces the delays some utilities encounter when developing customer engagement infrastructure. The CVR strategy does require utility distribution information, such as certain voltage-demand experiments, but this information can be gathered at low-cost and be evaluated with SGRC's Smart Grid Investment Model, according to Jackson. In contrast, many electric cooperatives and public utilities are turning away from stand-alone AMI systems because predicted meter-related benefits failed to outweigh costs. While adding demand response savings can improve benefit-cost ratios, the uncertainty and long lead times related to customer engagement programs add more risk.

Share    | [Return to Headlines](#)

Small But Enthusiastic Band of Users Finds Big Savings in 'Dynamic Pricing'

E&ENews Daily (02/06/14) Tomich, Jeffrey

Approximately 11,000 Commonwealth Edison Co. (ComEd) customers in the Chicago area have enrolled in a unique Illinois plan allowing them to pay real-time prices for electricity. However, less than 1 percent of eligible customers have enrolled in real-time pricing plans in the ComEd and Ameren Corp. service areas, which cover much of Illinois. Elevate Energy says that in these two territories, current average savings are about 15 percent on the energy supply part of participants' bills. Those who had enrolled in the program from its 2007 inception have saved about 25 percent. The programs require customers to commit for at least a year and pay an administrative fee, which they expect to recover in savings. They receive new meters at no cost that can measure hourly electricity use, and can see forecasts for the next day's electricity prices online and access usage and pricing information to determine usage patterns. In the Chicago area, if prices are expected to exceed 14 cents per kilowatt-hour, customers are sent a high-price alert via email, text, or tweet. During January's polar vortex, extremely low temperatures caused real-time prices to increase to near \$2 on Jan. 7 in ComEd's service area, which are typically a few cents per kilowatt-hour.

Share    | [Return to Headlines](#)

What Does the Google Acquisition of Nest Mean for DR?

Intelligent Utility (02/14) Kerber, Tom

Earlier in 2014, Google announced its \$3.2 billion acquisition of Nest, a maker of intelligent thermostats and other products. This transaction will enable Google to be a key player in the demand response (DR) market, which is focusing more on customer-owned thermostats instead of utilities marketing, procuring, and installing them. As an aggregator of load, Google can use demand response to address both utility programs that focus on capacity constraints as well as market programs that target daily variations in the cost of electricity. Nest and other thermostat vendors like EcoFactor, EarthNetworks, and ecobee, have developed various levels of energy modeling solutions based on algorithms that use weather and equipment operating history. This approach enables building and equipment performance to be modeled, and can be used to shift load without affecting comfort. Austin Energy has migrated to a more cost-effective DR business model that rewards both consumers and thermostat vendors for participation. Austin Energy pays thermostat vendors a recruiting fee and a small annual fee to oversee DR events. In 2011, the Federal Regulatory Energy Commission (FERC) issued Order No. 745, which requires RTOs and ISOs to pay the locational marginal price for DR resources participating in the day-ahead and real-time wholesale energy markets. FERC's Order No. 1000 requires

resources. AESP provides professional development programs, a network of energy practitioners, and promotes the transfer of knowledge and experience.

AESP
15215 South 48th Street,
Suite 170
Phoenix, AZ 85044
(480) 704-5900

Submissions are due by the 12th of each month to Adeline Lui at Adeline@aesp.org
(480) 704-5900

Editorial Committee

Adeline Lui, Editor, adeline@aesp.org
Matt Daunis, Co-Vice Chair, Publications Committee
Subid Wagley, Co-Vice Chair, Publications Committee
Tracy Narel, Board member
Elizabeth Titus, Board member
Carol White, Board member
Greg Wikler, Board member

transmission providers to consider all types of resources, including DR and energy efficiency, on a comparable basis in transmission planning. Both rules are now being implemented.

Share    | [Return to Headlines](#)

Energy Efficiency Investments Reap Three Times the Economic Rewards

FierceEnergy (02/03/14) Lundin, Barbara Vergetis

The Southeast Energy Efficiency Alliance's 16-city energy efficiency retrofit consortium generated \$3.87 million in economic output and 17.28 new jobs for every million dollars invested in energy efficiency programs from 2010 to 2013. And the economic results were achieved by completing more than 10,000 building energy audits and 6,000 home and commercial building retrofits. The findings are from the second Energy Pro3 Report, conducted by the Cadmus Group. The SEEA program consortium ranked sixth among 41 U.S. Department of Energy Better Buildings Neighborhood Programs nationwide, based on the number of completed retrofits. "The remarkably positive economic impact that investments in energy efficiency have had on both economic growth and job creation in the Southeast are helping to create a fundamental change in perspective," said SEEA President Mandy Mahoney. Strong positive results were recorded in all states with participating programs. The top-performing states benefited from local program administration and spending, the availability of financing for retrofits, consumer education efforts, strong marketing support, utility partnerships, workforce training, market conditions, and momentum.

Share    | [Return to Headlines](#)

Large-Scale Energy Storage to Reduce Load in New York City

GreenTechMedia (02/10/14) Wesoff, Eric

Ahead of the expected closure of the 2-gigawatt Indian Point nuclear reactor, New York City utility Con Edison has proposed to supply 100 megawatts of load reduction measures that include energy storage, demand response, and energy efficiency. Con Edison and NYSERDA have released some of the details of the program, and acknowledge they may eventually change. Planned incentives for energy systems that provide summer on-peak demand reduction are \$2,600 per kilowatt for thermal storage and \$2,100 per kilowatt for battery storage systems, with bonus incentives for projects larger than 500 kilowatts. Incentives will be capped at 50 percent of the project cost. The proposed New York City initiative is somewhat comparable to California's Self-Generation Incentive Program, a subsidy established by California's PUC that provides one-time, upfront rebates for distributed energy systems installed on the customer's side of the utility meter. Qualifying technologies in California include wind turbines, fuel cells, and associated energy storage systems. Bloom Energy was able to use this incentive program for its solid oxide fuel cells. In June, the PUC requested three of California's large investor-owned utilities to procure 1.3 gigawatts of energy storage by 2020, in addition to setting market mechanisms to begin the procurement process.

Share    | [Return to Headlines](#)

10 US Cities Plan Coordinated Attack on Building Energy Waste

Greentech Media (01/30/14) Lacey, Stephen

Bloomberg Philanthropies, the Doris Duke Charitable Foundation, and The Kresge Foundation have combined efforts to increase building efficiency in 10 U.S. cities. The City Energy Project is intended to help mayors in the 10 cities create plans to cut energy waste in existing building. The ultimate goal is to save \$1 billion in energy costs a year. The participating cities are Atlanta, Boston, Chicago, Denver, Houston, Kansas City, Los Angeles, Orlando, Philadelphia, and Salt Lake City. The program has \$9 million in seed money and each city will develop efficiency targets. The progress of the cities will be closely monitored over the next three years. During his time as mayor of New York Michael Bloomberg helped reduce the city's carbon emissions by 19 percent and will reach 30 percent by 2017. His foundation helped provide the seed money for the program. The hope is the cities will learn from one another and create templates for other cities.

Share    | [Return to Headlines](#)

EPA and Freddie Mac to Cut Carbon Pollution and Increase Affordability of

Multifamily Buildings

U.S. Environmental Protection Agency (01/30/14)

The EPA's ENERGY STAR® program and Freddie Mac have signed an agreement that will help to cut carbon pollution while increasing the affordability of multifamily housing properties. The agreement outlines strategies to save water, energy and money for multifamily property owners and residents. Roughly one-third of Americans live in apartments within multifamily buildings, spending approximately \$22 billion on energy every year. Rising energy costs are contributing to the decline in affordability for many of these Americans. Housing industry studies have projected that multifamily properties can become 30 percent more efficient by 2020, unlocking \$9 billion in energy savings and preventing more than 35 million metric tons of greenhouse gas emissions per year. In support of the President's Climate Action Plan, this memorandum of understanding outlines key strategies to make multifamily housing more affordable by encouraging building owners and tenants to benchmark their energy and water performance and take steps to improve efficiency.

Share    | [Return to Headlines](#)

Energy Efficiency: When Will Consumers Realize the 60-Cent Light Bulb Wasn't a Bargain?

Environment & Energy (01/24/14) Dehnert, Elspeth

The congressional phaseout of 40-, 60-, 75-, and 100-watt standard incandescent light bulbs went to effect on Dec. 31 with the cessation of their manufacture, and while the cost of a 40-watt equivalent light-emitting diode (LED) is 100 times the price of the modern version of Edison's bulb, the new bulbs are still a bargain for the consumer, the country, and the climate. Compact fluorescent lamps (CFLs) are 75 percent more efficient and LEDs 85 percent more efficient than a conventional incandescent bulb, according to the National Electrical Manufacturers Association's Kyle Pitsor. Residential lighting is approximately 12 to 15 percent of an average home electrical bill, so the electricity savings to consumers are significant. In addition, power-saving bulbs are longer-lasting. University of Kentucky professor Joe Rey-Barreau estimates that standard incandescent bulbs last an average of 1,000 hours, whereas CFLs last 10,000 hours and LEDs 25,000 to 100,000 hours. Consumers will need to choose among a wide range of energy efficient bulbs with different qualities, features, and purposes, in addition to various lumens per watt. "Lighting today is getting very difficult for consumers because there are so many choices, so many variables, so many things that are new and different," Rey-Barreau notes. The mercury content in CFL bulbs is viewed as a shortcoming, while a 2011 study published in the journal *Environmental Engineering Science* determined that the amount of mercury in CFLs varies by brand and wattage. The study also found that the "vast majority of CFLs are nonhazardous" and that it would take weeks or even months for the mercury vapor discharged in a room to surpass the safe human exposure limit. Meanwhile, Rey-Barreau says the CFL bulb has reached the limits of its efficiency, which makes the LED the most promising light source on the consumer market. "Today LEDs are in just about everything, and so we see the transition where adoption of LED is happening in different stages by different industries and with varying uses," observes Phillips' Todd Manegold.

Share    | [Return to Headlines](#)

Why You Should Be Paying Attention to Seattle

EcoBuilding Pulse (01/02/14) Weeks, Katie

Seattle is the fifth most energy efficient city in the United States, according to the American Council for an Energy-Efficient Economy's annual City Energy Efficiency Scorecard. Next year it may be the first, due to new policies put in place at the end of 2013. In December, the Metropolitan King County Council, which includes Seattle, approved an ordinance requiring all government building projects to achieve LEED Platinum certification. Seattle also adopted a Resource Conservation Management Plan (RCMP) in December to reduce 2008 levels of energy use 20 percent by 2020, and to reach carbon-neutrality by 2050. In addition, Resolution 31491, also adopted in December, funds the RCMP and outlines plans for measuring and tracking energy use, making operations and maintenance improvements, and capital investments in energy efficiency. Initial efforts to help city departments track energy use intensity data will include implementing low- and no-cost operations and management improvements identified by analyzing utility bills and building energy assessments in 2013.



Featured Articles

Energy Information Systems: Four Lessons from the Field

by Hannah Kramer

As awareness of — and access to — energy use data grows, Energy Information Systems (EIS) are rapidly gaining traction in the commercial market. EIS are software tools that store, analyze and display energy use data and many of them show promise for supporting commercial utility energy efficiency programs. The value of EIS to customers and utilities arises from two central themes:



Hannah Kramer

1. EIS automation and analytics can improve cost-effectiveness of programs, particularly in the areas of customer screening and savings verification.

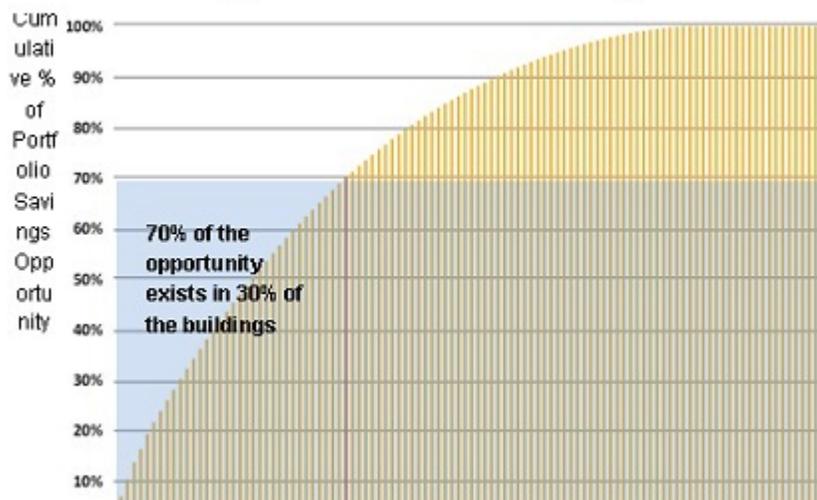
2. EIS promote ongoing engagement of customers by giving them easier access to their data, leading to more awareness of opportunities and higher customer satisfaction.

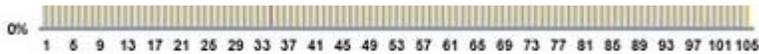
Over the past several years, PECEI has implemented a number of EIS-enabled pilots with a variety of technology partners. Four key lessons have emerged from our work:

Lesson One: Screening has high impact. Portfolio screening for technical potential is one of the most significant aspects of EIS-enabled program design, particularly in the small- and medium-sized business markets where there are many buildings for potential engagement. While the accuracy of specific savings opportunities identified through the EIS have only been studied to a limited extent, our experience shows that portfolio screening is accurate enough to identify customers with higher energy-saving potential.

One recent program illustrates the importance of screening. For a Midwest utility, PECEI and technology partner Retroficiency implemented an analytics-enabled retrofit program for small-and-medium business customers. We used the portfolio screening module of the EIS to target marketing efforts towards customers with the highest technical potential for energy savings, as shown in Figure 1. Upon first contact, customers were given customized information about the energy-saving potential in their buildings, generating interest in the program and increasing the number of scheduled in-person audits.

FIGURE 1 - Prioritizing by Technical Potential in Midwest Utility Pilot





Buildings Ranked in Order of Savings Potential

Source: Retroficiency, Inc.

Lesson Two: Data is key. Most EIS rely on interval data, but to be truly effective, the software needs additional data streams. Correct building type (NAICS code) and square footage data associated with each customer are important for accurate analytics. While access to complete data and accurate correlation with customer meters may not be simple, the metering infrastructure and utility meter data management systems are improving and EIS vendors are flexible in how they bring data into the software.

Lesson Three: The combination of technology and people drives engagement.

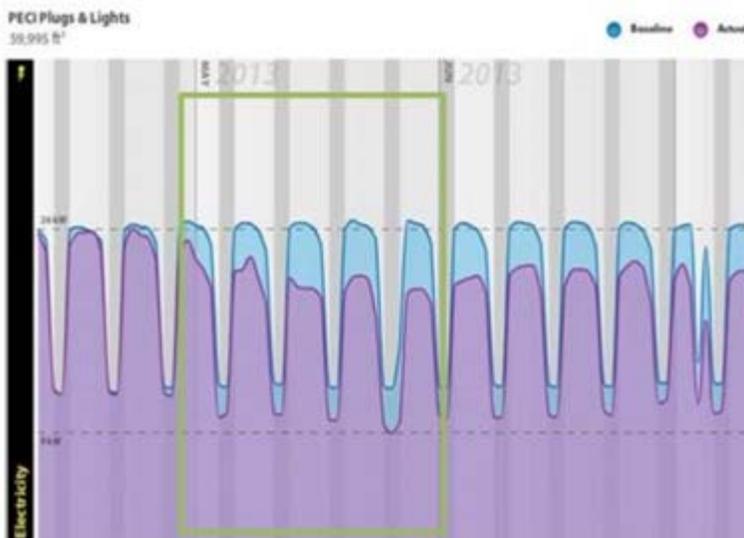
Customers are accepting of and are beginning to expect more data-driven engagement strategies. They are not interested in hearing what an “average owner” could save; they want to learn about their specific opportunities and payback periods. In a utility pilot with technology partner Pulse Energy, customers valued the view into their energy use that the EIS provided, but had little time to determine how to act upon the information. By supplementing these tools with on-call engineering expertise, we were able to drive higher satisfaction and participation.

PECI recently managed an occupant engagement pilot with 10 stores of a national retail chain. The pilot took the form of an energy-saving competition between stores and employed EIS dashboards, provided by technology partner Lucid, to track energy use. We used the dashboards to engage employees and provide tips and feedback alongside real-time energy data. It also included communication features allowing employees to exchange messages with a remote “energy coach.” On average, stores saved four percent of electricity use, with the highest-saving (and most-engaged) store achieving nine percent savings.

One of the key findings from another program was that customers valued EIS tools and showed a willingness to invest in their facilities as a result of the data. However, the use of an EIS and availability of the energy coach for technical support does not fully remove the hurdle of energy managers having time to implement findings.

Lesson Four: EIS help track persistence. The ability to track and flag savings degradation compared to the modeled baseline can help create ongoing engagement with facility staff and occupants, as shown in Figure 2. Instead of flying blind and hoping that savings persist after energy-saving projects, these tools offer a feedback loop that can lead to ongoing improvements. One example is PECI’s annual Kilowatt Cup competition, where we use our headquarters as a testing ground for ways to engage occupants to achieve energy savings and improve persistence, carrying lessons learned into each future competition.

FIGURE 2 — Kilowatt Cup competition energy monitoring compared to modeled baseline



Our four lessons point to a single conclusion: EIS is a piece of the solution. The tools need to be packaged with a program design centered on customer needs. Without a well-designed program, an EIS has the potential to leave the customer with detailed energy

information but little motivation to act. This is because an EIS does not address barriers that continue to slow implementation: limited knowledge of how to fix the problem, lack of time to manage getting a solution in place and scarce financial resources. The combination of customer touch, carefully designed financial incentives and advanced EIS software paired with the right level of in-building support are the keys to implementing effective EIS-enabled program designs.

Hannah Kramer is the Director of Engineering at PECl, an organization that designs and manages energy efficiency programs.

Share    | [Return to Headlines](#)

AESP News



Spring Forward!

AESP's Spring Conference is just around the corner. Join us in Baltimore this May 12-14 to discuss the latest trends, tools and techniques in energy efficiency program implementation and marketing. Opening keynote speaker Roland Risser from the the Building Technologies Office (BTO) in the Office of Energy Efficiency and Renewable Energy will share some of the ways that BTO is developing advanced technologies and solutions for buildings and homes, as well as codes and standards. In addition, you'll also want to know "The Five Forces of Change for Energy Consumers" that will be presented by closing speaker Dr. Julie Albright from the University of Southern California. Join us! The agenda is now available and registration is open. [Click here for more info.](#)

Call for Abstracts — AESP Summer Conference and 2015 National Conference

We have two important deadlines coming up. Don't miss this opportunity to present a paper, panel or roundtable at two upcoming AESP conferences.

*AESP Summer Conference on Evaluation & Implementation
August 4-6, 2014, San Francisco
Abstracts due: March 14, 2014*

*AESP 25th National Conference
February 9-12, 2015, Orlando
Abstracts due: April 7, 2014*

For more information and to submit an abstract, [click here](#). First time users will need to create a username and password.

AESP MEMBERS ONLY: Regulatory Tracking/Commission Database Survey

What do you think of the AESP Commission Database for members? Regardless if you use it frequently, rarely or never, we want to know. And for taking the survey, we'll send you a \$5 Starbucks gift card as a token of our thanks. [Click here](#) to go to the survey. It only takes 6-7 minutes, and you'll also be registered to win a \$100 Amazon gift card! Thank you for your input.

Report from the Rocky Mountain Chapter: Beers and Boulder — Colorado's Energy Future

On Jan. 23, nearly 100 energy professionals participated in the Rocky Mountain Chapter's Energy Hour to discuss Colorado's changing energy landscape and potential pathways forward. Convened at the offices of E Source, the event featured speakers Will Toor, former mayor of Boulder, and Michael Bowman, a founding board member of the Sustainable Biodiesel Alliance. A moderated discussion explored trends in both transportation and renewable energy, as well as



community choices for reducing the amount of coal in a city's energy mix. In addition to stimulating dialog, beer, snacks, and networking rounded out the evening and helped make the Energy Hour a success. - *contributed by Nadav Enbar*

Share    | [Return to Headlines](#)