

State Energy Advisory Board Meeting
August 12-14, 2008
Denver, CO

Board Members Present

Chris Benson (Chairman, AR)
Patricia Sobrero (Vice Chair, NC)
Elliot Jacobson (Secretary, MA)
Paul Gutierrez (NM)
Duane Hauck (ND)
James Ploger (KS)
Janet Streff (MN)
Steve Vincent (OR)

Others present were:

Gary Burch, STEAB Designated Federal Officer (DFO)
Julia Reil, U.S. DOE Golden Field Office
Chuck Clinton, SENTECH, Inc.
Marguerite Harden, SENTECH, Inc.

The following STEAB members were absent:

Henry “Ted” Berglund (FL), Susan Brown (WI), Peter Johnston (CA), Alexander Mack (FL), James Nolan (MT), JamesEtta Reed (PA), David Terry (VA), Daniel Zaweski (NY), William “Dub” Taylor (TX), John Davies (KY), and Robert Hoppie (ID).

August 12, 2008

Opening Remarks

Rita Wells (General Manager of the Department of Energy at Golden Field Office and Executive Director for Field Operations) opened the conference up with a welcome note. She noted STEAB’s value from both the field and headquarters perspectives. Her presentation began with an overview of the Department of Energy (DOE) Energy Efficiency and Renewable Energy (EERE) and moved into how the National Renewable Energy Laboratory (NREL) is involved with EERE. She pointed out that in 2007 the EERE budget began to increase and continues to grow. Rita wells noted that two weeks ago there was the selection of Alliance for Sustainable Energy (ASE) as a contractor for DOE to manage NREL (ASE is made up of Midwest Research Institute and Battelle). She added that this change will move NREL out of pure research and into combining federal and private funding and developing technologies as well as commercialization. Rita Wells described STEAB’s efforts as strongly supporting the DOE mission. Rita Wells then opened the meeting up for questions.

Elliot Jacobson inquired if there would be an October resolution extending EERE’s work. Rita Wells responded that it is still unknown how long the Continuing Resolution will

extend. Elliot Jacobson noted the difficulty of being proactive with EERE operates under a Continuing Resolution.

Pat Sobrero asked if there is something the Board can do to reflect States' need for energy efficiency and how communication can be advanced in order to get actions completed. Rita Wells acknowledged that currently everyone is looking for solutions, and often Congress is asking DOE what can be done. In this sense, STEAB can provide significant advice that will be listened to. Rita Wells continued by offering the EERE website (<http://www.eere.energy.gov>) as a good reference and Gary Burch and Julie Riel as points-of-reference.

A discussion regarding the administration change after the coming election ensued. Rita Wells noted that there is strong bi-partisan support for commercializing the technologies developed through DOE's labs. She noted that there is a strong demand and necessity for energy efficiency and renewable energy and its many services.

The topic of corn ethanol as a fuel source rather than food source also came up in conversation. Rita Wells explained that DOE's research in biofuels is cellulosic based and research is no longer looking at corn- or food-based ethanol. The funding that has been created for the bio-refinery in Georgia is for advanced cellulosic ethanol. Because cellulosic is new, there is a high risk associated with cellulosic ethanol and therefore not a significant amount of investment, which is why the federal government has stepped in. Rita explained that the department is broadening the scope of what they are considering for ethanol to including algae, which will help ensure that ethanol is a near-term solution. Dale Gardner (NREL) will be discussing renewable fuels in the day's upcoming presentation.

Presentations⁺:

- NREL Executive Management Overview: Bobi Garrett (NREL)
- Progress and Challenges in Renewable Electricity: Bobi Garrett (NREL)
- Progress & Challenges in Renewable Fuels: Dale Gardner (NREL)
- Clean Energy Commercialization—Innovations at NREL: Tom Williams (NREL) and Joel Serface (EIR)
- Sandia National Lab (Technology Transfer Update): Brent Burdick

Question and Answer Period

After each presentation there was a period open for questions and answers. The following notes capture the discussion during this period.

Bobi Garrett was asked how decisions are made at NREL considering there is so much uncertainty within resource and forecasting models. Bobi Garrett agreed that it is a daunting challenge, and the analysis sector of NREL is used to better share the information from NREL. There is a joint partnership between MIT, Stanford, and

⁺ Copies of the presentations are available on the STEAB Web site: www.steab.org

Colorado Universities that helps with analysis. Bobi Garrett pointed out that NREL has a partnership with Merrill Lynch. This broad portfolio of interactions that NREL has could also involve STEAB for decision making issues.

Elliot Jacobson asked if NREL has worked with or focused on limited resources for low-income families. Bobbi Garrett pointed out that an emphasis on low-income families in the STEAB Annual Report would help bring this issue to the forefront. Bobi Garrett also referenced work that has been done with Habitat for Humanity for bringing warmth to the homeowner. A net-zero Habitat house was built in the Denver area, which exceeded its performance. She pointed out that this work was the first of its kind and is not cost effective (there were significant sponsors involved); however, there could be more opportunity for low-income work in the future. Elliot Jacobson mentioned that more collaboration with labs could foster an environment that focuses on low-income families.

After Joel Serface's presentation, he was asked how he communicates with policy makers from the standpoint of a venture capital firm. Joel Serface answered that energy investments require political connections and therefore KPCB interfaces with the government. He continued by mentioning that education of policy makers is key, and beyond education, there needs to be a shift in the energy dialogue. Rather than comparing nuclear and coal energy sources, we need to accomplish a diverse renewable energy portfolio.

Joel Serface was also asked how easy is it for a venture capitalist to get the information needed to invest. He noted that there are barriers; however, many venture capital firms begin with unrealistic expectations. He continued by noting that there is only a small portion of venture capital firms that like to go into labs and try to understand the labs and technology licensing processes. Joel emphasized that there is a need to help entrepreneurs understand the technology and have more accessibility to available information.

Another question posed for Joel Serface was what can be done locally to spur capital investment. Joel talked about an "Intellectual Property Portal" for EERE, which will be launched over the next year in order to educate venture capitalists and encourage investment. He noted that there is currently no epicenter for renewable energy and there is therefore dispersion of investments. He also underlined the importance of working with local utilities, many of whom have been great leaders and partners in the past.

Roundtable Discussion Led by Roger Taylor and Ron Benioff

Roger Taylor and Ron Benioff entered into a presentation that fostered discussion on the following topics:

- Acceleration of State Energy Transformation
- Energy-Environment Integration
- Policy and Program Design
- Economic Development, Innovation & Workforce Scale-up
- Public Awareness and Support

- Transition Planning

Gary Burch reflected that many of the slides presented by Roger Taylor and Ron Benioff asked for an enhanced dialogue with STEAB. He continued by noting that in the past, duct sealing was discussed at a meeting and STEAB followed up to facilitate a national webcast available to all states, energy offices, etc. Gary mentioned that STEAB was therefore involved with technology transfer and had initiated steps in this direction by introducing the concept of duct sealing to a potential, national user base.

Pat Sobrero suggested that the discussion should be how to work in collaboration with the labs and their resources. She continued by referencing the issue-driven collaboration suggested by Ron Benioff and Roger Taylor, noting that this strategy would work as a way to collaborate.

Steve Vincent discussed his perspective from the utility side. He noted that while Clean Cities is out of DOE, technical support is provided by NREL. Steve continued by pointing out that of 80 Clean Cities coalitions, the ones that are least efficient are those with utilities involved. He noted that some markets are too small for Clean Cities to work because of lack of funding. He questioned NREL if there is a tool for economic analysis in order to delineate if Clean Cities could work. Ron Benioff replied, stating that Wind, Biofuels, Solar used “input and multipliers” models, which are being modified to apply the context of the state. Steve Vincent replied that REMI is a similar model that he uses.

Roger Benioff asked if utilities would be interested in decoupling. Steve Vincent replied that utilities would be interested, though some staff are resistant to the idea, but in his opinion it makes perfect sense. Most states will offer decoupling, but not a higher rate-of-return. Elliot Jacobson noted that there is controversy over how the decoupling will work out.

Ron Benioff moved the discussion by asking what STEAB would suggest if there were two or three more areas that DOE could work with the states on. Duane Hauck suggested workforce scale-up collaboration, especially considering that wind power has had major economic impact. Duane Hauck continued by noting that electricians are being used to work on wind turbine plants and there is now a two-year program that is looking to educate the workforce. He posed the question of how the national lab is involved in this area. Ron Benioff replied that overall, national labs have not worked on this issue much. Roger Taylor contributed that national labs could orchestrate a community colleges and industry collaboration. Ron Benioff suggested that NREL could model, share curriculum, and train the trainers. Both Ron Benioff and Roger Taylor agreed that NREL could be a catalyst to this system.

Roger and Ron asked what is needed to weatherize homes from the state perspective. Elliot Jacobson reflected that there is a need for more auditors within Massachusetts. Elliot Jacobson continued that if the training is overdone then there will be an issue of

having the trained left without jobs. Roger agreed that in this situation there is again the issue of who will train the trainers.

Janet Streff contributed that William “Dub” Taylor (STEAB member, TX) tried to work with labs and there was a licensing issue that could not be passed over. She brought up another topic, stating that there is a need for a central location for information that is kept up to date and can be referenced. Ron Benioff concurred; a central location for information is important and that there should be a contact for each state. Ron added that it is NREL’s responsibility to be ahead of the curve. Janet continued, stating that many states are looking for carbon information such as footprints and calculators that would have it all in one spot. Speed and scale needs to be a focus in order to bring about public awareness and support for energy efficiency and renewable energy.

Paul Gutierrez noted that many of the issues brought up by Ron are also brought up in local town halls. From his experience, there is a central importance in New Mexico for consumer-centric education and outreach, one central location for consumers (even specific for each state), and developing curriculum for the states should be the major priorities. He suggested that NREL could have a stakeholder base to bring universities and state governments together for collaboration.

Ron Benioff continued this thought, saying there should there be a monthly series of webinars where national experts could be brought together to disseminate information. Chris Benson agreed that this is a good idea, but this task would need to be done professionally in order for the webinars to be marketed correctly; there are numerous webinars and you do not want to be part of the noise. Pat Sobrero pointed out that if the webinars are consumer-centric, then there is an opportunity for NREL to be the trusted, reliable source and therefore easier to market the webinars. Steve Vincent agreed, mentioning that sponsorship of the webinars could be focused on the utilities. From his viewpoint, utilities aren’t engaged because either they do not know what is out there, they think they know what’s out there but don’t, etc. Roger and Ron echoed Steve Vincent’s thought that there is not a clear pathway for an industry to get to information.

Wendolyn Holland (Commercialization Team, U.S. DOE) offered her perspective, agreeing that there is a federal role to step in on many of these topics. She noted that states are “where the rubber hits the road”, and the role of federal and state governments will have to evolve. Wendolyn noted that EERE is known at the headquarters as being the disruptive office; now is the time to communicate what you need from DOE for that reason. There is a need for a clearinghouse of lab technologies; however, the silos are expected because of the separation of labs. Ron Benioff agreed, and brought up the idea that the webinars and/or the central repository is one way to have an unbiased perspective that represents all the national labs.

Both Ron Benioff and Roger Taylor offered their contact information for further collaboration, and Ron Benioff noted that he would like to sit in on the conversation tomorrow.

Day End Discussion:

Chris Benson brought up the need for the STEAB Board to not lose momentum after the laboratory visit, and to follow-up on discussions from the day's events. Patricia Sobrero agreed, mentioning that more time needs to be placed in order to reflect on what we learned from the day and what we want to do about it. Pat thought a great way to follow-up is to hold a discussion during tomorrow's meeting that focuses on STEAB's strategic direction.

Duane Hauck urged STEAB to continue to work on the dialogue from the last time STEAB met in DC in order to foster collaboration between federal programs and between state lines.

Gary Burch transitioned the board onto the topic of how the board should move beyond the first webinar. Three additional labs will be contacted to see if they are interested. Tomorrow we will discuss how to move forward with additional webinars. Patricia Sobrero also suggested that tomorrow's meeting should discuss how STEAB should interface with the labs. She pointed out that while webinars may be one route for follow-up with labs, it would be important to have permanent laboratory contacts to correspond with.

A discussion persisted about the many new terms that have been entering the field, such as commercialization, market transformation, and deployment. The STEAB Board and NREL agreed that Wendolyn and the commercialization group at DOE and NREL should have a webinar open to an audience within the states in order to demystify the "buzz words" around commercialization.

August 13, 2008

The day began with a presentation from Paul Gutierrez on the "New World Order of Energy," which followed up on the previous day's tasks and Bobbi Garrett's presentation. Paul Gutierrez's noted the content that has to happen—technologies, markets, and policies—in order to mobilize capital. Beyond content, Paul Gutierrez noted that in addition to this content there is also a "context" that needs to be considered (who is the audience? what is the setting?). Paul spoke of the importance of energy efficiency and conservation before clean energy is considered. He noted that while it's always more fun to develop the next technology, there is a need to be practical and consider energy efficiency first.

Paul continued his presentation by commenting on the national goals that were noted on the previous day, which included energy security, environmental quality, flexible and reliable infrastructure, and economic competitiveness. He mentioned that these goals are vital, yet there is some disconnect between management goals and deployment goals (such as the goals of venture capitalists). Paul Gutierrez also noted that there are some gaps in Bobbi Garrett's presentation and it is STEAB's goal to identify them.

Ron Benioff from NREL, who was sitting in on the conversation, pointed out that it is the interfaces between technologies, markets, and policies where the shortcomings are. Crossing across these boundaries is currently the major difficulty. Ron Benioff (Manager, Intergovernmental Programs, NREL) noted that Bobbi Garrett's perspective is to look at the broad overview level while Ron's perspective is in the trenches. The new structure coming to NREL should hopefully connect the management level and local level perspectives, while bringing NREL's technologies closer to the market. Ron Benioff pointed out that many of the EERE programs have in the past been "stove piped" among wind, solar, geothermal. With the new structure these technologies are going to be combined into a portfolio.

Pat Sobrero agreed with Paul Gutierrez in stating that Slide 2 of Bobi Garrett's presentation (which revealed the overlay between market, technology, and policies) is missing something; the entire system depicted is set on the cultural and societal aspects, which determines the capacity for these to take part in. Pat Sobrero emphasized that bringing the societal and cultural aspects into the picture is where STEAB can be of assistance.

Chris Benson reflected on this circle to state that technologies, policies, and capital (rather than markets) are a focus, which was how he heard the topic presented by the National Governors' Association (NGA). Chris Benson stated that he prefers to think of the capital as partnerships in order to push technologies. At the NGA convention, Tom Williams made a central point, which is that in the end this is about diversity. This message can be lost in the general population; they do not understand that many forms of energy will have to be utilized. There are reasons why the labs don't just work on one idea because there is a responsibility and obligation to work on the broader scope of technologies. Unfortunately, the media reflects many misrepresentations.

The discussion shifted as Janet Streff noted that climate change is going to be more of a focus in the future, especially after the new administration. She mentioned her belief that climate change agendas are going to be one of the halting forces for coal. Janet Streff cited that in Minnesota, climate change has already begun changing policies and focuses.

Chris Benson brought up the issue that states are under pressure to find the "silver bullet" that will solve all energy issues. Chris Benson repudiated this idea, describing that there is no single solution, despite the fact that politicians buy into these "silver bullets". He continued, saying that there needs to be more communication that describes a good energy policy as a diverse energy policy.

Paul Gutierrez stressed that within New Mexico, there needs to be policies and incentives in order to move away from fossil fuels. Gary Burch followed-up by agreeing that policies are a key element, and while STEAB cannot make policies, we can provide insight and recommendations through the available network and avenues in order to get the issues upfront to the heads of DOE. The Western Governors' Association (WGA) is a multi-state entity and they are in the process of working to tackle the issue of energy security. The Midwest Governors' Association is also involved in policy analysis. Gary

proposed opening a dialogue with these two associations and NGA. Chris Benson agreed, stating that NREL's additional involvement would be beneficial to assisting in this dialogue. Gary noted that WGA has an office in Colorado and DC. He continued by suggesting the time after October 1st (when NREL is through the new restructuring) to work toward opening this dialogue with WGA and NGA.

Duane Hauck pointed out that governors have had in-depth conversations with energy entities and feed-in policies would be beneficial. He added that the Great Plains Institute has been involved in these conversations. Gary Burch agreed and added that STEAB could explore numerous avenues in order to see if there are overlapping and mutual areas where we could benefit from a symbiosis; no one group can make the new world energy happen, but there is power in collective action.

Julia Riel suggested that the National Conference of State Legislatures (NCSL) may be a good venue for collaboration. Julia Riel noted that they just held a conference where legislators spoke of energy policy's priority among other demands. She continued by stating that one disappointing finding from that conference was that only 1/3 of attendees realized that they *had* a state energy office.

Janet Streff noted that at the National Association of State Energy Officials (NASEO), many organizations (including WGA) attended; and this is another good venue for collaboration. Janet informed the Board that WGA identified Renewable Energy Enterprise Zones in order to justify building corridors. She continued by adding another group to consider collaboration with—the U.S. Conference of Mayors.

Paul Gutierrez continued by adding that other national labs can be included in order to connect some dots. He noted the difficulty of integrating the labs; however, the overlapping work between the labs should foster some communication.

Steve Vincent posed the questions to the Board: What is the goal and what are we trying to accomplish by collaborating with the other organizations? And, does STEAB have the capacity for more travel? Steve Vincent shared his perspective that there is a lot of inconsistency between policies, and utilities do not see these boundaries because of the nature of the companies. Gary Burch responded by noting the power of collective action and offering the Fall meeting as the time to collaborate, and therefore there would not be additional travel required on the Board's behalf.

The day continued with Duane Hauck's presentation, which brought up the economic development, policy, and public awareness issues from yesterday's last presentation. Duane Hauck passed out information on Renewable Energy Production in North Dakota. ♦ Duane Hauck noted that North Dakota is a large farm state that is looking for a new niche market such as energy from their crops. He noted that coal and oil activity coupled with biofuels, wind, etc. have had a big impact. He continued by mentioning the recent talk about the country's recession in the news; and from Duane Hauck's

♦ Duane's handouts will be made available on the STEAB website: www.steab.org.

perspective, North Dakota is not unique. He spoke of the numerous discussions going on that fit the economic development aspect of energy. He added that the North Dakota legislature has come up with EMPOWER to bring together the coal and oil people with the renewable energy advocates and workers.

Gary Burch asked Duane Hauck what prompted this accomplishment within North Dakota. Duane responded by pointing toward state-centric economic developers and energy officers who have collaborated to make this success story. Duane handed out the *Strategic Energy Science Plan for Research, Education, and Extension*^ψ. Duane noted that this plan was initiated in 2007, and Jim Fisher was integral to this process. Duane referenced the plan, which has set four goals:

1. Sustainable agriculture and natural resource-based energy production;
2. Sustainable bioeconomies for rural communities;
3. Efficient use of energy and energy conservation (where STEAB can step in); and
4. Workforce development for bioeconomy.

Duane Hauck continued his presentation with a discussion that focused on eXtension (visit www.extension.org for more information). He explained that eXtension is built around communities-of-practice. He and other members of the Board think that eXtension should also have a module to focus on energy. He described eXtension, which has 3,000+ county network offices, as working best when there are networks, but also specialists from universities to program in their area of expertise. Duane suggested that OWIP could commit money; there is a \$200,000 need to add an energy component to this resource. He continued by mentioning that Chris Cassidy from the U.S. Department of Agriculture could be a funding source in order to do this sort of resource, as well.

Duane passed around a third handout^ψ, which was a Bill passed by Congress regarding energy technology transfer. He suggested that this could be an action item, which if successful would build on state resources and is necessary to what STEAB is doing. The Board decided to take a short break and return to this discussion afterwards.

After the break, Duane Hauck summarized that, overall, the eXtension project has huge potential to assist the growth in consumer knowledge and curriculum in regards to energy.

Pat Sobrero added that this venture would not have to be like the Rebuild America Program; it can be tied to other EERE Programs. She commented that both educators as well as consumers would utilize eXtension.

Duane moved the discussion on the past or current resolutions that may need to be considered. While there was not the required number of STEAB Board members present for a quorum, future business was discussed. Janet Streff suggested that STEAB should make a presentation at NASEO, and while it is too late for the Kansas meeting in

^ψ Duane's handouts will be made available on the STEAB website: www.steab.org.

September, the meeting in February would be sufficient timing. Janet added that at NASEO, STEAB could talk about the partnerships we have proposed here. Duane Hauck noted that partnerships work best when they are at the state level.

Gary Burch reflected on the potential importance of STEAB's collaboration with DOE's new Commercialization Team.

Ron Benioff suggested that every state in the union should have an energy plan that looks out at least 10 years. He added that one of the important things that the planning process does is to get the network of people together who are involved in energy. Ron Benioff continued that after each state plan is set, there can be talk across state lines. From Ron's experience, the plan is now evolving out of necessity in Hawaii. He added that while many state offices have ideas on energy, they do not have comprehensive and effective plans.

Janet Streff shared her experience that Minnesota does not have the capability for an energy plan due to the structure of the government; however, there is a Climate Action Plan that focuses on energy planning.

Chris Benson added that many Public Service Commissions (PSC's) within states do not require utilities to project plans for energy. He continued by posing the question to the Board: what is the purpose of meeting with WGA? The Board agreed that the main goal is to partner weatherization and state energy offices with extension services. Gary Burch noted that most political success is local. He added that working with WGA would find out how STEAB can assist their organization to be more effective in their energy efficiency endeavors.

Chris Benson continued by asking how working with WGA is going to help STEAB to make recommendations to EERE. Gary noted that WGA can be an adjunct to support the Commercialization Team. He continued to answer by pointing out that STEAB has access to resources that the Commercialization Team does not. Duane Hauck and Janet Streff volunteered to bring to the table in November a briefing paper on what the MidWest Governors' Association has done in the past. Steve Vincent volunteered to meet with some WGA representatives in order to discuss the possible interfaces between our two organizations. Elliot Jacobson agreed to talk about the carbon market. Paul Gutierrez volunteered to draft a letter to the Hill sponsors to encourage funding of S.2739.

Duane Hauck suggested that the community-of-practice project can be reflected in minutes and discussed on conference calls; however, where is DOE on Rebuild America? Gary Burch answered that outside of schools, there is no discussion of Rebuild America. He added that Rebuild America will not be refunded and use of the term carries baggage that should not be used in future programs. Gary suggested that there may be a need to change the terminology in the resolution.

At this time the Board took a break for lunch.

The key discussion post-lunch was led by Pat Sobrero, who walked through the current strategic direction for STEAB in order to determine which goals are applicable and what needs to be added. Please see pages 15-16 for an updated (yet not finalized) Strategic Plan that resulted from this discussion.

August 14, 2008

The day began with a discussion on the Action Items resulting from the previous day's meeting (see page 13). This discussion moved into talk for the Fall meeting. Chuck Clinton facilitated this discussion, and notes from his facilitation are on page 14.

Elliott Jacobson suggested that for the Fall meeting, we try to recapture the July meeting that was cancelled, which was to be a DC trip for the Executive Board. A meeting in mid-to-late October to meet with OMB may be justified for STEAB officers. We should also re-establish ties with the Hill, especially after the new administration. In the back of our mind we should plan on a meeting sometime between November and March.

Gary Burch proposed the week of November 17, 2008, for the Board meeting, with the possibility of having the officers come in a day early in order to recapture the DC trip that was cancelled in July. Gary explained that this week is best due to funding and avoiding the upcoming holidays and weather issues. Steve Vincent noted that he will not be able to come on that date, but no one else objected. Chris Benson proposed having the meeting from November 19-21. Chris agreed to send an e-mail gauging the availability of the members within the week.

Janet Streff expressed her concern regarding advisories for blending gas and ethanol. Gary reported that DOE's transportation group is not publishing or advertising any advisories at this time.

Gary brought up the topic of EE Conservation Block Grants. The current appropriations on the House side was \$400-500 million, which could increase over the next year. Funds cannot be rolled over. What would STEAB's role be in this? DOE does not want to appoint an oversight body, and so it is thought that STEAB could provide some sort of oversight activity. Janet Streff believes that the first block of money goes to the cities. The second block of money goes through the state energy offices, which would probably amend their state energy plan.

Chris Benson pointed out that the executive committee should call and talk about how to approach various members who may be key members to identify. Joanne Anderson and Dan Adamson (a lobbyist from Avista Utilities in DC) may be able to identify key congressional members in order to propose our agenda. Dan Adamson may fit better with the early Spring (March) meeting. STEAB cannot lobby, we can only make recommendations and inform. Paul Gutierrez pointed out that there is a need to facilitate that conversation. Chris agreed that there is a need to discuss with the Board how we go

forward; we have a subcommittee formed but we have not decided what to do with it. This should be added to the November agenda.

Gary Burch pointed out that while there was no quorum for this meeting, we need to have enough attendance in DC for a quorum. Anyone who is not available to be there in person will be able to participate via conference call. For the next conference call, a week in March will be chosen to gauge a temporary date for the Spring meeting.

The Board discussed that they were thankful to meet with NREL and they would look forward to discussing NREL's selection for participation in a second Webinar. Chris Benson suggested that the Board may want to look at the selection of technologies. Pat Sobrero suggested considering commercialization. Gary Burch pointed out that some aspects of commercialization may be proprietary and thus limit the information that can be shared via a Webinar.

Closing Remarks

Gary Burch and Chris Benson were thankful for everyone's participation despite busy schedules and no monetary incentives.

The meeting was adjourned around Noon on this date.

Action Items Resulting from the Denver Meeting

Action	Responsible Party	Due Date	Status
Thank You Letters	SENTECH, Inc./ Chris Benson	ASAP	Complete
E-mail Gauging Availability for Fall Meeting	Chris Benson	ASAP	Complete
Update the STEAB Online Annual Report and allow Gary Burch to review before submittal	SENTECH, Inc.	8/21/08	In Process (*waiting for final costs from Denver)
Update the STEAB Website (NREL presentations)	SENTECH, Inc.	8/28/08	Complete
E-mail the list of all conference call dates and times for the year	SENTECH, Inc.	9/1/08	In Process
Draft Meeting Minutes from Denver to Chris Benson and Gary Burch	SENTECH, Inc.	9/12/08	Complete
Draft Agenda for the Fall Meeting	SENTECH, Inc.	9/18/08	
e-Xtension Follow-up	Duane Hauck	9/18/08	
Pursue WGA Contacts Kevin Moran (WGA, DC) Pan Inman (WGA, Denver)	Jim Ploger	9/18/08	
Contact Meg Powers Regarding e-Xtension	Elliot Jacobson	9/18/08	
Contact Bob Evans regarding e-Xtension	Janet Streff	9/18/08	
Contact Jeff Genzer and David Terry regarding e-Xtension	Chris Benson	10/1/08	
Arrange OMB & Capitol Hill visits by Board's Executive Comm. for DC.	Chris Benson	10/15/08	
Draft Outline for the Annual Report	SENTECH, Inc.	10/1/08	
First Draft of Annual Report	SENTECH, Inc.	11/1/08	
Consider and pursue OWIP as a funding source for e-Xtension	Gary Burch	11/17/08	
Facilitate OWIP's presence for the Fall Meeting	Gary Burch	11/17/08	
Pursue Midwestern Governors' Association (MGA)	Duane Hauck & Janet Streff	11/17/08	
Look into New England Gas Association (NEGA) contacts and networking for Carbon Market involvement and a presence at the Fall Meeting	Elliot Jacobson	11/17/08	
Prepare a one-pager regarding the Carbon Market and state involvement	Elliot Jacobson & Janet Streff	11/17/08	
Draft a letter to the Hill. This letter is for encouraging appropriations.	Paul Gutierrez	11/17/08	

Goals and Objectives for the November Meeting

- One goal for the meeting is to bring the parties to the table (including DOE) that may need justification for pursuing eXtension in the future.
- Facilitate state cooperation and partnerships

Ideas for the November agenda:

1. WGA/ NASEO representations at the meeting
 - a. Kevin Moran- WGA, DC Contact
 - b. David Terry
 - c. Bob Adams
 - d. Meg Powers (Low-Income Group)
 - e. Jeff Genzer
 - f. Ed Pollack (EERE, Building America)
 - g. OWIP command structure from DOE
2. eXtension (Duane)
3. Commercialization Team Interface
4. A discussion on STEAB's future and going forward
5. OWIP dialogue to open land-grant universities.
6. Selected Program Managers to be contacted for the fall meeting
 - a. OWIP
 - b. Office of Electricity
 - c. Biomass
 - d. Buildings
7. 2 DAS's will be invited
8. Ethics Briefing
9. Public Forum

Strategic Direction August 13, 2008

1. Facilitate Renewable Energy Advancement

- Policy
- Deployment of Technology
- Market/Capital

Expected Outcomes:

- Improved deployment of renewable energy information and technologies from national labs and other sources.
- Deployment of commercialization opportunities, best practices, and strategies.

Performance Indicators:

- Number of deployment strategies and tactics that facilitate and enhance communication between Federal, State, and local stakeholders.

Benchmarks:

- Three national or regional communication events involving stakeholders.

2. Accelerate Energy Efficiency

- Policy
- Deployment of Technology
- Market/Capital

Expected Outcomes:

- Improved communications and awareness working with stakeholders.
- Improved deployment strategies and tactics among stakeholders.
- Increased priority and policy support for Energy Efficiency.

Performance Indicators:

- Number of recommended communications strategies implemented (i.e., webinars, e-Xtension, etc.).
- Number of recommended strategies and tactics implemented from STEAB recommendations.

Benchmarks:

- Increased number of working relationships among stakeholders.
- Documented use of technology transfer among and between partners.

3. Facilitate Technology Commercialization/ Deployment

- Economic development
- Opportunities in support of EERE's Commercialization Team.

Expected Outcomes:

- Transfer of information and data.
- Deployment of commercialization opportunities, best practices, and strategies.
- Application and utilization of the technology.
- Established strategic relationships with EERE's Commercialization Team.

Performance Indicators:

- Number of commercialization events among stakeholders.

Benchmarks:

- Number of commercialization events STEAB has facilitated.

4. Enhance Federal/ State/ Local Synergies

Expected Outcomes:

- Improved collaboration with regional stakeholders.
- Improved collaboration with federal, state, and local governments.
- Increased involvement with higher education research and outreach initiatives in energy efficiency and renewable energy.

Performance Indicators:

- Number of interfaces with stakeholders.
- Number of strategic partnerships facilitated.

Benchmarks:

- Increased engagement of involved governmental agencies and higher education representatives related to EERE priorities.
- New strategic partnerships created.