

**Ad Hoc Community and Public Works Planning Committee
Alternative Energy Committee
November 19, 2008**

A. Fischlowitz, vice chair, calls the Alternative Energy Committee to order at 10:12 am

Present: Burke Henry, Mark Eggleston, Carl Frederickson and Alan Fischlowitz, Vice Chair

By phone: Larry Bean.

1. Review and approval of the following minutes:

A. October 3, 2008

B. October 10, 2008

Motion by A. Fischlowitz to table the October 3rd and October 10th Alternative Energy Committee (AEC) minutes until the next meeting. Second, B. Henry. All in favor, 4 ayes. Motion carried.

A. Fischlowitz attended B. Henry's presentation for the League of Woman's Voters on Monday night. Very impressive and a big thank you to B. Henry. He will mail a CD with the three presentations to Tom Wojciechowski at UW Extension.

2. Status of Met Tower and Data Distribution – Carl

L. Bean thanks everyone who helped get the met tower up. A special thank you to M. Eggleston for getting a tower put up on State Park land in 30 days. L. Bean will write thanks you to the DNR, State Park and the Governor.

B. Henry and A. Fischlowitz were able to download and work with the data collected from the tower and make a disc for C. Frederickson. M. Eggleston will contact the State to see if the information will be allowed on their computer. L. Bean does not want the software at this time. Bob Owen, consulting engineer and meteorologist is also receiving the data. B. Henry is working on one analysis and A. Fischlowitz is working a slightly different analysis. They will compare their analysis and decide what to send to L. Bean. B. Henry said you can take the wind data and convert that data into kilowatt hours of power production using a Vestus 660 turbine. Wind energy comparisons can also be made with the tower at Devil's Island, which is located amount 15 miles across the lake to the north. On November 6th the average wind for the day at the State Park was 7.2 meters/second; at Devils Island the wind speed was 6.9 meters/second. If the data used the day average wind the data calculates into 4221.8 kilowatt hours for the State Park. If the 10 minute wind average is used, which takes in the variability of the wind, there would be 4924 kilowatt hours at the State Park and 4605kw at Devils. To calculate mph take the meters/second x 2.2 = mph. Thank you to B. Henry for all his calculations.

M. Eggleston has no problem with picking up and transferring the data. The schedule will be to pick up the data every two weeks, so if something goes wrong, only a week would be lost. Suggestion to get a third memory card from Seventh Generation so we can cycle all three and have two sets of data in hand while one is in the reader. Also need to ask about if the anemometers are calibrated or non-calibrated. Suggestion to ask Bob Owen or the National Science Foundation.

The lowest anemometer stopped reading for two hours; do not know if temperature caused it to freeze up. A. Fischlowitz will contact Bob Owen.

3. October Punch List Review – Larry

L. Bean asked if the land use agreement between the Town of La Pointe and the DNR is done as Barb Nelson, Administrative Assistant will need some information from that file.

A. Fischlowitz will see if the application for land use for the Town of La Pointe has been filed with the Zoning Administrator. L. Bean said the Bureau of Aeronautics (BOA) for the determination of no hazard to air navigation has given clearance for the site.

The Town Board has approved the contract with Seventh Generation; Seventh Generation and Bad River have to be notified that there is a signed agreement. (Cannot hear SODAR/Bob Owen discussion)

B. Henry gave two presentations – one at the Madeline Island Library on August 12, 2008 and Monday night at the Northern Great Lakes Visitor Center to 75-80 people. L. Bean said all newspaper clippings have to be kept on file because copies are needed for the final report. A Fischlowitz will make sure this is done. Barb Nelson and Jennifer Croonborg, Zoning Administrator has to be aware that the land use agreement with the DNR is on file.

4. Status of Phase II Funding – Burke

B. Henry has a list from Barb which shows everything that has been done and what is pending. On October 8, 2000 we had almost \$4,000. Focus on Energy, October: \$10,000; Apostle Islands Area Community Fund (AIACF), November: \$2500. Pending: Minneapolis Foundation Grant, \$2500. B. Henry did communicate with the Island Association last night. The Island Association received a check of \$2500 check from the Minneapolis Foundation which will be deposited today and then a check will be written to the Town of La Pointe. Barb said there is nothing in the file about the Minneapolis Foundation grant. A. Fischlowitz will talk to Barb. Also pending: Fund for the Environment grant: December, \$2,000. L. Bean said the Fund for the Environment has repeatedly asked for more information which he has sent. A. Fischlowitz said this is because Cindy, who followed our grant, is no longer with the Duluth Superior Area Community Foundation. He has not been introduced to her replacement but will do that. A. Fischlowitz said he does not see listed the matching grant from the State Office of Energy Independence which was to match the \$2500 Minneapolis Foundation grant. There is also the verbal commitment the Minneapolis Foundation anonymous donor for another \$2500. B. Henry said the OEI grant was not on the list Barb had so we will have to find out why. L. Bean said the \$2500 OEI grant has requested that Barb and I fill out a form, which we have done, as well as a couple of other things and they are still asking for more information. They also sent the Focus on Energy grant application to them. L. Bean said in his conversations with Brian Driscoll, Community Relations, OEI he implied that would be enough but since then they want to know specifically what we are going to spend the \$2500 on. L. Bean suggested that we earmark this grant money for the data analysis to be done by Bob Owen. B. Henry said this is a good idea because the OEI can say that our grant is being used for data analysis rather than used to match another grant. L. Bean will send this paragraph to the OEI.

B. Henry said the contract with Bob Owen contract is \$3624.00. The contract balance with Seventh Generation is \$9, 665. Seventh Generation has been paid \$3,953.70 which is the amount of the invoice submitted for the hardware. Cost to decommission the tower in the future is \$3500. A deduction of \$500 had been discussed in regards to decommissioning the tower at Bad River. Seventh Generation charged us \$3500 for that

but they did all the towers at one time, so was there supposed to be a \$500 credit? L. Bean said yes. Re-using the anchor screws could be a savings of \$300 and using the existing wiring harness would save another \$750. That sum, minus the 10% that is already taken off is \$1445.90, but that number is a possibility, not a fact. These reductions still need to be negotiated.

To summarize: Invoice for hardware for Seventh Generation: \$3,953.70. The balance is \$9,665 - \$1445.90 in reductions = the right number. L. Bean agrees. B. Henry said there is \$3500 to decommission the tower. If do not count the \$2500 OEI grant the bottom line is a negative \$2318.83 but if the \$2500 OEI grant comes through we are positive by about \$180.17. L. Bean said that according to the numbers on October 3, 2008 we have a total budget of \$21,200, including the balance, from last year.

B. Henry said his spreadsheet starts with a \$4000 grant in December from AIACF, add the interest and what we have left, including the Fund for the Environment and negotiation with Seventh Generation for the reductions, is a positive \$180.17. These figures do not include the \$2500 from Minneapolis Foundation. If we do not get a grant from the Fund for the Environment we will be about negative -\$1800.

L. Bean suggested that even if the Focus on Energy grant did not go through our books – the money went right to New Day Energy – the money needs to be accounted for. B. Henry said we paid Terry White \$620. L. Bean said yes, but we did get the work done, which was worth a lot more. The AIACF final report shows the cost of the investment and that should be included. Barb should have that amount. If not, L. Bean might have it. B. Henry will make up a new spreadsheet, try to identify Phase I and Phase II and will add the grant we received from Focus on Energy to help pay for the assessment and he will increase the cost of the New Day Energy LLC bill by that amount.

5. Possible Funding Sources to Finish Phase II and Beyond – Alan

A. Fischlowitz said there is an additional \$2500 available from the anonymous donor at the Minneapolis Foundation. This is not in writing so that amount will not be shown. L. Bean asked A. Fischlowitz about the status of the Wal-Mart grant application for \$5,000. A. Fischlowitz said we need a reason why we are applying.

Discussion moves to:

6. Community Energy Initiatives by the Governor's Office of Energy Independence.

A. Proposal from 7th Generation Energy Systems for Joint Grant Proposal

B. Proposal for Regional Community re: Governor's 25x25 Plan

A & B refer to the same grant proposal.

A. Fischlowitz said we have been approached by the Mayor of Bayfield to participate in a \$10,000 regional planning grant from the Office of Energy Independence (OEI). L. Bean said he talked to Brian Driscoll, Community Relations from OEI and he asked about our participation with the region and said he had directed them to contact us in regards to this grant. Since no one contacted us he contacted Bayfield Mayor Larry McDonald's office and also the Alliance for Sustainability because they are doing the grant preparation. Within the hour the mayor contacted A. Fischlowitz. A. Fischlowitz said he invited the mayor over and the mayor was amazed to the tower. A. Fischlowitz will attend the meeting today as vice chair of the AEC that involves the towns of Washburn, Ashland, Bayfield and La Pointe as well as Ashland and Bayfield county, BART, and the two reservations – Red Cliff and Bad River. L. Bean said the tribes, because politics are

making it difficult, will not participate. Red Cliff wants to participate but only as a member of Bayfield County.

A. Fischlowitz said there could be some cost for us in order to carry our own weight along with everyone us. Need to focus our efforts with Walmart and the Minneapolis Foundation on this planning grant. L. Bean said this is the first he heard that there would be costs and encouraged the committee to talk to Kelly Randleman of the Alliance to find out about costs.

L. Bean said there should be 3 letters of support in your packets. This is a little convoluted as Seventh Generation wanted to apply for this grant in our behalf. There is \$500,000 available for 5 to 10 communities over the next year for work to be done in 2009 in energy independence and community planning. Talked to Katie Ross, Project Director at Seventh Generation and she was not aware of this, though she heard the region was going to apply. He put Katie in touch with Kelly Randleman of the Alliance. L. Bean said the OEI made it clear that they would prefer that we be part of the regional application since a regional application would take priority over an application submitted by one community. There is a lot of work to be done in a very short period of time and they will need a contractor or assistant so Seventh Generation is not necessarily out of the picture. A Fischlowitz asked if the SODAR installation would be part of the grant. L. Bean does not think so. SODAR on the island would be totally independent of the regional grant.

L. Bean said the three form letters need to be delivered to Kelly Randleman of the Alliance: One letter is to be signed by Greg Nelson, Town Chair, one by Keith Sowl, Town Foreman and one by L. Bean as chair of this committee. The three support letters have to go with the application. Barb will put the letters on Town letterhead; they will be signed and delivered to Kelly Randleman. Bay Area Rural Transit (BART) has to be included in the letter. A. Fischlowitz will review the letters before Barb puts them on letterhead.

7. SODAR – Burke & Larry

A. Technology Review

B. Regional Cooperation

C. Funding Potential

SODAR will be set up by the Hagen House where there is power to the holding tank. M. Eggleston has already put the SODAR equipment into the land use agreement with the DNR in case we did it. L. Bean – fantastic and thank you, Mark!

Bob Owen is the push behind SODAR. He can use our met tower in exchange for SODAR data. If SODAR is to be installed, it has to be this winter, but if there is no money he will not do it. No modifications to the tower are needed for SODAR.

B. Henry said we should consider measuring atmospheric pressure. A. Fischlowitz agrees. Could put an atmosphere pressure monitor on the tower and a sensor and data reader at the ranger station, cost would be approximately \$200-\$300. L. Bean concerned about the budget. If the Walmart grant comes through, we are fine.

Discussion of measuring solar. We could get good solar data from the Ferry Line terminal building solar collectors. A perinometer on the tower would just measure solar radiation but the thermal collectors the ferry line has are manufactured and would have the same data. The energy could be calculated by the reduction in fuel costs. B. Henry said this would not show daily solar radiation data. A. Fischlowitz suggested looking at

Oregon Scientific and Lacrosse Technology to see what they have. A. Fischlowitz suggested buying a small solar panel to provide the power for these instruments rather than using the power from the Hagen House. B. Henry will talk to G. Russell about the performance of his thermal collectors.

8. Newsletter & E-Mailing List – Carl

An email list has been started and A. Fischlowitz suggests putting together a couple of paragraphs a month to the people on this list. Should also put something in each Gazette. L. Bean cautioned not to publish too often

9. Final Report to Apostle Islands Area Community Fund (AIACF).

This is for the \$4,000 grant received from the AIACF. L. Bean said he would help but since he has written three grant proposals he would like to see someone else take the lead. An outline of what is needed for the final report was included in the award letter received from (cannot hear). B. Henry offers to do the final report which is due February 1st.

9. Plan for Community Wind Power Handbook/Teaching Materials

Consensus to table until the next meeting.

10. Other Activities for AEC During One Year Test Period.

L. Bean said he mentioned to the Alliance that we would like in the grant application the opportunity to develop a business plan for our acquisitions and get them updated. In addition to wind, there is also solar, wood, such as what Dan Schuppe uses for his lumber business and radiant heat which could be done at the Emergency Services Building. Geothermal, ethanol, biodiesel fuels should be mentioned in our final reports.

11. Other Business.

B. Henry said Keith Sowl said the Wangenstein family on Big Bay Road is very interested in the wind project and would be willing to have a wind farm on their property. However, they are in the Airport's Stay Out Zone, but 120 ft towers could be put up. B. Henry will talk to them.

12. Set Next Meeting and/or Regular Meeting Day and Time.

B. Henry said a decision has to be made if solar and atmospheric pressure instruments are to be put on the tower. A. Fischlowitz is in favor; L. Bean is in favor if we have the money. Discussion of available funds. Agreement that if the Minneapolis Foundation grant of \$2500 comes through there will be \$1,000 available to spend on this instrumentation.

Motion by BH that we proceed with instrumentation to provide daily atmospheric pressure and solar power measurements to include in our data base for the final report, at a total expenditure of less than \$1,000. Second, C. Frederickson. All in favor, four ayes, motion carried.

The next agenda will include instrumentation, Walmart Foundation application, and AIACF final report. A date for the meeting will be set later.

13. Adjourn.

Motion to adjourn by A. Fischlowitz, second, B. Henry. All in favor, four ayes, motion carried.

Meeting adjourned at approximately 11:30 am

Minutes taken from tape and respectfully submitted by Kathy Erickson, Clerical Assistant.

Approved as presented February 17, 2009