

REC Committee Meeting Notes

January 12, 2010

1:00pm – 3:30pm

Introductions

Recent Legislation that was on the Governor's desk for his consideration: (Mike Winka):

- **Second prevailing wage legislation, A.4293/S.3028** - Circumvents the NJBPU rule-making process, which exempted SREC financed PV projects and residential PV projects from the prevailing wage law
- **The Solar Energy Advancement and Fair Competition Act, A-3520/S-2441**—New solar legislation that extends the state's Solar Renewable Portfolio Standard (RPS) to the year 2026, extends a REC life to two additional years, and in effort to provide improved regulatory security, a 15 year SACP. Also develop RPS number with no backsliding as the number would be established. It would increase the RPS Energy Year to 6 GWH which is a change from the Percent of GWH requirement.

2010 Renewable Energy Program Plan - Recap (Mike Ambrosio)

- 2010 Renewable Energy Program Plan was approved on Dec 16, 2009 all programs requested were approved. Changes that had been discussed at prior meeting were approved.

2010 Program – Summary (Mark Valori – Handout 2)

- Maintain funding cycles for solar rebate program to ensure funds are available throughout the year
- Continue integration of EE programs into RE for both the Residential & Commercial projects.
- Expansion of the 1st REIP capacity block from 10MWs to 20MWs – anticipated that this will happen in the 2nd funding cycle. (Rebates will drop once the capacity blocks are reached in both the Residential and Commercial sectors.)
- Expand NJREMI from solar to wind and biomass systems as well.
- Provide direct assistance for feasibility and resource studies and increased market facilitation services to support on-site wind and bio-power projects. Up to 50K and up to 50% of the study cost. (50% at end of study and 50% when product is complete.
- Develop and implement modifications to the program fee structures to encourage installers to maintain good standing in the QA program
- Refine and continue mandatory training programs

2010 REIP Budget Summary (Charlie Garrison)

2010 REIP Budget Summary

Category	2010 Rebate Budget (million)	Anticipated MW
Bio Power - Rebates	\$11.250	3.40
Wind - Rebates	\$9.950	7.00
Solar – Rebates (3 FCs)	\$43.400	32.00
Total	\$64.600	45.20

It was noted that there the difference from these budget numbers above and the BPU budget in the board order are the rebate commitments that have already been made.

2010 REIP Residential Solar Incentives

Category	Standard Incentive Level	2010 Rebate Budget (million)	Anticipated kW
Solar			
<i>Less than or equal to 10kW</i>			
New Market Activity (Jan-Apr)	\$1.75	\$10.000	5,710
New Market Activity (May-Aug)	\$1.75	\$2.258	1,290
New Market Activity (May-Aug)	\$1.55	\$7.742	4,990
New Market Activity (Sep-Dec)	\$1.55	\$6.330	6,450
Residential Subtotal		\$30.000	18,440

It was discussed that we expect to reach 20MW of residential commitments somewhere between May and August, which is why the rebate drops during this time period in the chart above.

2010 REIP Non-Residential Solar Incentives

Category	Standard Incentive Level	2010 Rebate Budget (million)	Anticipated kW
Solar Non-Residential			
New Market Activity (Jan-Apr)	\$1.00	\$4.50	4,500
New Market Activity (May-Aug)	\$1.00	\$4.50	4,500
New Market Activity (Sep-Dec)	\$1.00	\$3.00	3,000
New Market Activity (Sep-Dec)	\$0.90	\$1.40	1,560
Non - Residential Subtotal		\$13.40	13,560

It was discussed that we expect to reach the capacity block of non-residential commitments somewhere between September and December, which is why the rebate drops during this time period in the chart above.

▪ **Integration EE and RE:**

• Residential:

- 10kW or under to qualify for the full rebate, applicant needs to do the Home Performance with Energy Star audit (Step1) and the Step 2 - Air sealing
- Over 10 kW - to qualify for **any rebate**, applicant needs to do the Home Performance with Energy Star audit (Step1) and the Step 3, Comprehensive Package – complete at least two measures identified in the audit. They would still participate in the SREC program.

• Commercial:

- Participate in either the Direct Install, Pay for Performance or Local Government Audit programs to receive the full rebate.

▪ **Wind**

- Extend the maximum production limit for the EPBB Calculator from 750,000 kWh to 1,000,000 kWh thereby increasing the maximum rebate from \$418,500 to \$543,000
- Extend wind project completion deadlines from 12 to 18 months
- Allows the development of a rebate program for innovative wind technologies
- Wind technologies to participate in the NJREMI program.

▪ **Wind Feasibility Studies**

- Help defray upfront costs of feasibility studies

- Provides up to \$50,000 per project with the NJCEP paying up to 50% of the cost for a wind assessment
- Half of payment will be made upon completion of study
- Remainder to be paid with the EPBB rebate
- 2010 Funds available for feasibility studies is \$500,000.

Scott Hunter suggested that we have a sizing methodology with the wind feasibility studies – for example we would not want to give the same study rebate to very different sized wind systems.

- **BioPower:**
 - 2009 program maintained with the exception that 2nd tier of capacity for 10-100 kW will be increased from \$2.00 per watt to \$3.00 per watt. This increases the rebate for this tier by up to \$90,000.
 - Custom incentives available for Bio Power projects.
 - Bio power technologies to participate in the NJREMI program

It was mentioned that the custom incentives for Bio Power projects has not been fully developed and this would have to go back to the board for approval.

- **BioPower Resource Assessment Studies**
 - Helps defray upfront costs of assessments
 - 2010 Funds available for resource assessments is \$500,000
 - Half of payment will be made upon completion of study
 - Remainder to be paid with the REIP rebate
- **BioPower and CHP**
 - 2010 program caps rebates at 40% of project costs but incremental costs associated with heat recovery are eligible
 - Equates to an extra \$0.50 per watt to \$1.00 per watt depending on tier.
- **QC and QA**
 - Target 50% inspection ratio for all budgeted projects.
 - Additional tiered cost for inspections. (anticipate \$200 after the first inspection)
- **Training:**
 - Five additional training offered in 2010
 - Training is now mandatory for all new installers which are defined as installers that have less than 3 completed installations in our program.

Program Operations Update – (Larry Barth – Handout 3)

▪ **2009 and 2010 Project Volumes:**

	2009 Budget	2009 Actual	2010 Forecast
Initial Application Processing	1691	2589	2257
New Approvals	1691	2868	2257
Inspections	1690	932	733
Final Application Processing	1558	1015	1444
Completed Incentive Payment	1558	732	1444
REC Accounts Established	1558	920	1744
Technical Trainings	30	30	35

▪ **Solar Program changes**

- Rebate Eligibility

- All new construction projects must be in a smart growth region
- Mandatory program training for installers
- >10kW residential must complete Tier 3 EE

It was discussed that you must meet the conditions of the Rebate Eligibility mentioned above or you will not get the rebate as we will be enforcing these rules.

- Submit 2 PV Watts (ideal and design) with application

- Used for consumption test
- Used for preliminary 80% production test

It was discussed in more detail that PV Watts “ideal and design” is the latitude and tilt at true south. It was also mentioned that the shading will come on the back end and that the system needs to meet at least 70% production to get a rebate. However, that rebate will be pro-rated.

- Energy Efficiency Requirements

- Integrating EE

Market Segment	Program	Rebate Impact	Documentation
Residential			
Existing Home			
<10kW	HPwES Air Sealing	\$0.20	Cert of Completion
>10kW	HPwES Tier 3	No rebate	Cert of Completion
New Home	Energy Star Homes	.25 to \$.75	TBD
Non-Residential			
Government	Local Gov't Audit	\$0.10	Audit Report
< 200kW	Direct Install	\$0.10	WorkOrder
>200kW	Pay For Performance	\$0.10	Energy Reduction Plan

It was discussed that a new home in the residential segment can only be in a smart growth area. Also in Non-Residential to get the additional rebate you need to participate in the audit portion of the program only.

- **Q1 Operations Team Priorities**

- Issue new version of Guidebooks
- Modify application forms and approval letters for 2010
- Improve monthly status reports
- Finalize system modifications
- Reduce overwhelming volume of customer calls related to program processes
- Implement new EE requirements
- For non-solar, develop new application, review and final approval processes for feasibility studies, biomass CHP, and uncertified wind turbines.

A question arose that asked about REMI products. Will there be any rebate for installations that are greater than 50kW when they purchase products made in NJ? This was a scenario not reviewed and the market manager and the BPU will look into this.

A question arose on the status of updating the website, forms, guidebooks and approval letters to reflect the new 2010 program changes.

The market management team hopes to have the website, forms, approval letters and process changes updated by February 1, 2010 and the two guidebooks, one for SREC process and one for REIP process shortly thereafter.

▪ **Process and Service Level Communications (Joanne Bachmann)**

In order to reduce the number of questions and the confusion on the REIP and SRP process, the Market Management team is work on process improvements with revised checklists, next steps, timeframe and contacts. It is expected that this will be reflected in updated checklists, website content and forms by February 1, 2010.

Customer Milestone	Required Documents	Incomplete/Next Steps/ Timeframe	Complete/Next Steps/ Timeframe	Contact after timeframe lapsed
I want to submit an application.	Initial Application Checklist	Application returned within <u>4-6 weeks</u> .	Approval letter generated within <u>4-6 weeks</u> . Begin project installation.	Theresa Heller
I am ready for program/ state inspection.	“As Built” Checklist	Installer receives e-mail to submit incomplete /missing documents <u>within 1 week</u> .	Inspection is scheduled or waived <u>within 1 week</u> of receiving documents.	Melissa Smith
Did I pass inspection?	N/A	Installer gets e-mail within <u>10 business days</u> to correct problems and request re-inspection.	Installer gets e-mail within <u>10 business days</u> with passed inspection results. Installer to pursue local inspections & utility interconnection.	Inspector
Where is my NJ certification number & rebate check?	Final Paperwork Checklist	Installer receives e-mail to submit incomplete /missing documents <u>within 1 week</u> .	Letter generated with NJ Cert number within <u>4 -6 weeks</u> . Rebate check mailed within <u>60 days</u> after NJ cert no. issued.	Melissa Smith Tammy Gray

There was a discussion due to a request to submit applications online. This is something that the MM has looked into previously. There was a recommendation that if there is an issue with file size and if we use a FTP site for uploading the data.

QC - QA Transition Accomplishments and Goals (Mark Loeser) (Handout - 4a)

- QC to QA transition update for 2009
 - 624 CSG and 308 Honeywell for a 932 total number of inspections
 - 376 projects were eligible for waiver (40% of total)
 - 295 were granted waiver (31% of all inspection)
 - 81 were inspected (27% of waiver eligible and 8.7% of all inspections)

- 28 failed (35% failure rate of QA installers)
- QA goals for 2010
 - Expecting about 1500 installations
 - Working toward 50% inspection ratio
 - 65% residential inspections
 - 20% non-residential inspections
 - 100% inspections for Utility Loan programs, self installs and QC installers
 - We have to move all installers to QA if we are going to meet these aggressive goals
 - Using carrot and stick approach
 - The carrot is quicker payment on the rebates
 - The stick is:
 - First inspection is no charge
 - Each re-inspection is anticipated to be \$200, which is deducted from the rebate
 - Failures will cause QA installers to lose their TADB (Trade Ally Data Base) listing

It was discussed that the carrot is receiving quicker rebate payments. One of the key sticks would be to pay for re-inspections and possibly installers could lose their Trade Ally Data Base listing and need to receive 3 passed inspections in order to get back on the list.

A question arose about the inspection failures it was suggested to evaluate the 28 failures and share that with the installers. Mark stated that the failures were not paperwork issues they were invalid installations. Mark also mentioned that we do provide reasons for failures during training and we have reviewed failures with the Technical Working Group.

Several people suggested that we re-evaluate this and look at what level the infraction was before we remove the installer from the TABD listing. It was suggested to focus on carrots, rather than sticks as incentives for installers to get the training and participate in the QA process. Mark asked for ideas and suggested that installers bring those ideas to the next solar working group meeting in early February.

Training update: (Mark Loeser – Handout 4b)

- **2009:**
 - The Market Manager conducted 30 training sessions.
 - 6 days of municipal technical training
 - 4 day wind site assessor training
 - 20 QC-QA, RE 101 and RE Performance Fundamentals training dates
- Training goals for 2010
 - 35 training dates available
 - 5 day Wind Site Assessor training

- 4 Municipality training dates
 - 2 Biomass Technical Training dates
 - 4 training dates for Financial Institutions (to educate financiers of projects.)
 - 8 technical and administrative training for existing QA and QA eligible installers (60 installers currently)
 - 12 technical and administrative training for new installers (currently over 200)
 - New installers are classified as not having submitted an application or not having completed three installations to date.
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- First training dates for new installers are February 17 and 24
 - Training for QA and QA Eligible installers will begin at the end of Q1.
 - This training must be completed by the anniversary date of their attendance of the QA training in 2009.
 - This training is MANDATORY in order to receive an incentive.
 - This training will initially be reserved to companies that are doing business in NJ. Training for individuals will be offered later in the year.
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- There currently over 200 new installers
 - Current QA installers will need to attend a QA refresher by anniversary date.

Questions arose:

- The owner of the intallation company may not be the correct person to attend the training. It might be the installation manager. The market management team said that a key decision makers responsible for the successful installation needs to attend the training for their company.

- What happens if an individual went through the training and leaves the company and goes to another company? Does he/she take the training certification with him or does it stay with the company? Market management team said that right now it would stay with the company but this is a good point and should be looked at further.

-Is there any momentum on the national level to have a training program for solar installers? Scott Hunter mentioned that the DOE was looking at this.

Mark suggested that these issues should be discussed in the solar technical working group for February.

- When do the new courses start? For new installers – 1st courses are scheduled for February 17th and 24th.

The February training is reserved for companies already doing business in NJ. Training for individuals will be offered later in the year.

Question arose that we may not legally be able to hold up the customer rebate to the customer if his installer did not go through training. It was discussed that this may not be

in the compliance filing. Need to encourage applicants to request that their installer attend the training program. Maybe the approval letter for REIP program can encourage this.

Technical Working Groups Update (Mark Loeser – Handout 4c)

- Solar Technical Working Group:
 - Performance standard thresholds
 - PVWATTS reporting on the As Built Technical Worksheet
 - Integrating new technology
 - Firefighter Training
 - Solar Technical Working Group: 2nd Monday in February
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- Wind Technical Working Group
 - Will work on the IWTI evaluation for paying performance based incentives for qualifying technologies
- BioPower Technical Working Group
 - Will be developed in 2010 as a mechanism for project development

Key Program Initiatives (Larry Barth – Handout 3 continued...start at slide 12)

- Are SREC only projects subject to System performance threshold requirements? - BPU said that the system performance threshold requirements are only for rebated program not the SREC program.
- Do we need to have the 70% string requirements since the BPU Board reduced the system performance threshold down to 70%? Is the 70% string requirement even valid anymore? The market management team suggested that the string 70% requirement be eliminated and the BPU staff and industry agreed with this recommendation.
- Should the Market Manager be given authority to grant 1st extensions for <10kW privates and 2nd extensions for >10kW privates? The market management team shared why they felt this was important to do:
 - Current guidelines written in time of long queues & significant budget constraints, before solar market transition
 - Approximately 10 requests over past two years
 - Currently handled by Board:
 - has been accommodative
 - Board deliberation extends decision making timeframe
 - <10kW projects were extended from 9 to 12 months in 2008
 - Small projects can face similar uncontrollable delay issues as large projects:
 - Economic hardships ...i.e. contractor failure & financing.
 - Permitting, structural issues, lawsuits
 - MM has established protocols for granting extensions based on demonstration of progress and nature of the delays.

The market management team proposed the following solution:

- Permit Market Managers to grant 1st extensions for <10kW privates and 2nd extensions for >10kW privates
- Applies to REIP projects only not CORE
- For residential <10kW, 1st extension for 6 months only
- For non-residential, 2nd extension for 6 months

The BPU felt that this is a good idea but wants the market management team to define further the criteria and review again next month. The BPU felt this should apply to REIP only not CORE. The final plan will need to be submitted to OCE staff then go to the board for approval.

New Initiative for 2010 (Larry Barth)

- Biopower:
 - plan for biopower industry meeting early March
 - feasibility study proposal at next REC
 - biopower and CHP have finalized protocols with TRC and are accepting applications
 - custom incentive will be presented as needed
- Wind
 - working to develop split payment methodology in system
- Technical Support: Seeking final approval to add technical support resource to support non-profit markets, have initial pilot identified with Highland Park.
- NJREMI:
 - first certification at EPV scheduled for Jan 22
 - developing incentive for Locus Energy monitoring equipment
 - will seek industry input via working groups on new technologies
 - request for waiver on 50% cost test for assembly plant

Utility Program Updates (Chantell LaCasse from JCPL and Fred Lynk from PSEG)

- JCPL and ACE solicitation – dates

They are almost finished evaluating the 2nd Solicitation and haven't gone to the board for consideration yet. After this occurs they will release the information. The 1st solicitation will release soon and the 2nd solicitation will be released soon thereafter.

Once the Board approves the results from the solicitation, JCP&L we will be releasing info on the project price, number of applicants, and number of awards. This is expected to get approval on January 20th.

To participate in the next SREC RFP solicitation, you would need to submit a complete rebate applications by Feb 4th to the NJ Clean Energy Program office in Iselin NJ. For SREC only applications, you would need to submit a complete SREC only application by Feb 18th

Chantell said that you would not need to have your approval number for the Step one of the RFP process which is expression of interest in participating. (The EOI can be submitted by email.) This deadline is March 1st. NREA will waive the application number on the EOI until March 4th.

The final deadline for the RFP is due March 5th. This should contain the pricing proposal and Qualification Materials.

- **PSE&G Solar Loan II (Fred Lynk)**

Fred said to check the website for all the program rules
SREC Floor prices have been residential \$450 and non-residential - \$380.

Solar for all includes many projects.

- 1A – Solar projects developed on utility owned land. Press release is being drafted for the 4 sites approved for the project. The 4 site will produce 12 MW of solar electricity but their will be another project because PSE&G needs an additional 13MW. The other project solicitation will take place later this year. To participate in this next RFP, you need to register through procurement at PSEG.

- 1B – Solar projects on 3rd party sites – RFP ended on Dec 11th – reviewing proposals – responses expected within a month

- 1C – Solar projects in Urban Economic Zone (UEZ) – 5 MW – RFP – 6 projects – once the firms are under contract PSE&G will make the announcement.

- 2 – Pole attached solar panels on PSEG facilities – plan on installing 65,000 this year.

Grid Supply Process or Non-net metered (Scott Hunter)

The market management team said that they are growing requests with regard to setting up a solar or wind farm. They wanted a direction from the utilities on where we should direct these inquiries. The utilities at the meeting said interested parties for developing wind and solar farms should contact the net metering contacts at the utilities on the NJ Clean Energy website.

Scott discussed that net metering working group is the place for any discussion on transmission and metering.

OCE staff Legislation and regulatory Updates (OCE staff)

- Prevailing Wage – was approved and is in effect without BPU rule, public comment period is still open – no details – questions should be directed to the Department of Labor. Clarification will be made in rule making.
- Net metering and interconnection – Phase I was approved and Phase II with eliminates the 2MW cap and aggregated net metering and community renewals, not proceeding on this but having requested to continue pilot. Clarify pilot for Red Skye – February Board order – who is responsible for aggregating the net meter – staff and board recommendation.
- RPS rule revision – staff is reviewing and will make a recommendation to the board in March
- Clean Energy Conference Update – Conference was successful and another is planned for October 2010
- NJ small wind working group symposium 1/15/10. (This symposium is designed for municipalities and is an all day event.)

Next meeting is scheduled for February 9th at 1:00pm to 3:30pm – location to be determined.

**Renewable Energy Committee Meeting
Attendees**

Tuesday, January 12, 2010

1:00pm - 4:00pm

Board of Public Utilities
44 S. Clinton Street - Multipurpose Room
Trenton, NJ

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