



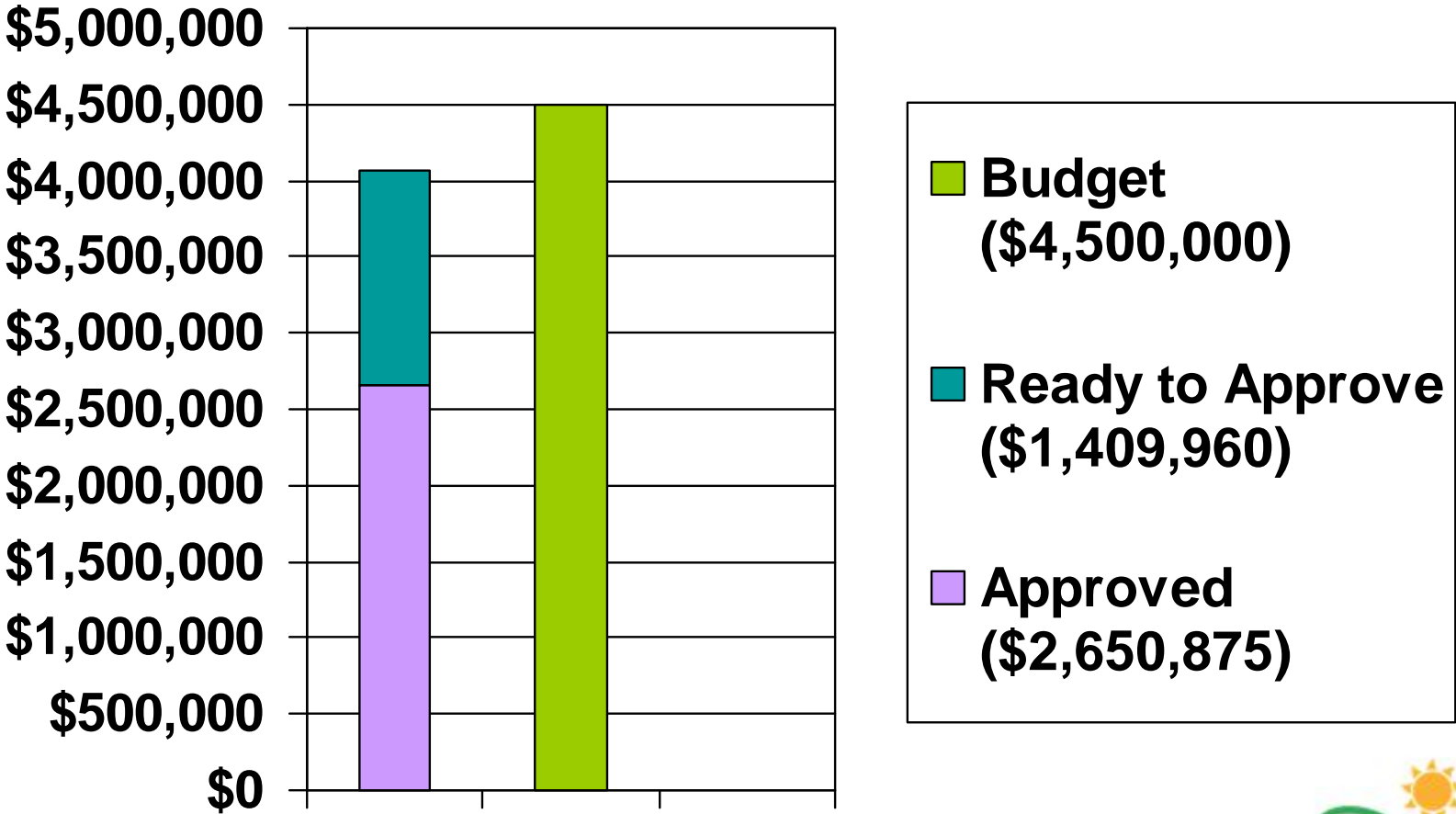
New Jersey's Clean Energy Program™

REIP Wind Program Update

*Joanne Bachmann
Renewable Energy Account Manager*



Apps. received vs. Budget for wind & biopower



**** \$439,165 rebate incentives are still available for new applications to be approved in 2010**



REIP Application Forms Web Page



HOME	RESIDENTIAL	COMMERCIAL, INDUSTRIAL AND LOCAL GOVERNMENT	RENEWABLE ENERGY
<p>Home » Renewable Energy » Programs » Renewable Energy Incentive Program » For Customers</p> <h2>Renewable Energy Incentive Program Applications</h2> <h3>Submit an Application Packet</h3> <p>Applicants must submit a completed Application Packet with all required documents and signatures. In addition to the REIP application form, the Application Packet must contain all of the information identified in the appropriate REIP Application Checklist. The new Solar Technical Worksheet (dated June 2010) with revised rebate amounts must be included in the Application Packet. Older versions are not accepted.</p> <p>Solar Application Packet (NOTICE: Solar rebate applications will be accepted for Funding Cycle 3 starting September 1, 2010)</p> <ul style="list-style-type: none"> REIP Application Checklist *Updated July 2010* Ten-Year Certification Letter Rebate Application Solar Technical Worksheet (**New**Effective for all applications submitted for Funding Cycle 3 (September 1, 2010). Application Conversion REIP to SRP *New for Funding Cycle 3 Applications <p>Wind Application Packet</p> <ul style="list-style-type: none"> REIP Application Checklist (wind) *Updated June 2010* Ten-Year Certification Letter Rebate Application Wind Pre-Application *Updated June 2010* Wind Technical Worksheet and Instruction *Updated June 2010* <p>Biopower Application Packet</p> <ul style="list-style-type: none"> REIP Application Checklist (biopower) *Updated June 2010* Ten-Year Certification Letter Rebate Application Biomass Equipment Technical Worksheet *Updated June 2010* <p><i>Incomplete or illegible applications will be returned to the applicant without exception and funds will not be reserved. Applicants must correct deficiencies and resubmit the full Application Packet to be considered for eligibility.</i></p> <p><i>Tools needed to complete the Technical Worksheets:</i></p>			
<p>Program Updates</p> <ul style="list-style-type: none"> DOE Announces \$30M New Small Business Funding to help Commercialize Clean Energy Technologies PSE&G Solar Loan II Rule Amendments Order Important REIP Program Changes in June 21 Board Order Prevailing Wage Notice and Contact Information for Questions <p>Other updates posted.</p>			
<p>State Programs</p> <p>Clean Energy Programs from:</p> <ul style="list-style-type: none"> NJ BPU NJ DEP NJ CST NJ DCA 			
<p>Solar Hot Water Systems</p> <p>\$1,200.00 Incentive</p> <p>Now available for qualifying solar hot water systems.</p>			
<p>Community Partners</p> <p>Make your community and NJ a Earn</p>			

RENEWABLE ENERGY PROGRAMS

- RENEWABLE ENERGY INCENTIVE PROGRAM
- INCENTIVES
- FOR CUSTOMERS
- HOW TO PARTICIPATE
- APPLICATION FORMS
- FOR VENDORS
- SREC REGISTRATION PROGRAM
- RENEWABLE ENERGY MANUFACTURING INCENTIVE
- SREC TRACKING SYSTEM
- NET METERING AND INTERCONNECTION
- UTILITY FINANCING PROGRAMS
- CLEANPOWER CHOICE PROGRAM

“New” Wind Application packet



Application Checklist and Forms update



2010 Renewable Energy Incentive Program (REIP) Wind Pre-Application & Application Checklist

Added front page to explain the program →

Welcome to the *New Jersey Clean Energy Program* (NJCEP) sponsored by the New Jersey Board of Public Utilities. The *Renewable Energy Incentive Program* (REIP) for wind is a smart way for New Jersey residents, municipalities, farms, and businesses to reduce their carbon footprint, stabilize electric costs, preserve natural resources, and support the economy. The REIP offers financial and technical assistance for applicants interested in investing in wind energy equipment also referred to as wind turbines to help offset their electricity load at their home or business.

Potential applicants can submit a pre-application packet to have administrative staff evaluate the proposed site's wind potential and estimate the rebate amount. This information is used to assist potential applicants in evaluating the economic benefit of installing a wind energy generating system. The pre-application alone does not reserve the rebate for you. In order to be considered for a rebate reservation the Pre-Application and the Full Application must be submitted to the REIP program administrators for a full evaluation.

The REIP uses a method called the **Expected Performance Based Buy-down** (EPBB) to calculate your wind incentive. The EPBB method helps ensure that rebates are calculated and paid based upon the expected energy production of the installed wind turbine. The EPBB estimates the kWh output for a specific wind turbine from an approved list at a given location based on the documented wind speed at that location. The associated power output of the turbine is determined using the turbine's power curve at that wind speed. Incentive rates are designed to produce higher rebates for projects that maximize the power production at that wind speed and associated hub height. The EPBB calculator is not publicly available however the NJCEP publishes the list of approved turbines for the REIP wind incentive program. If the turbine for your project is not listed, you can complete the Wind Alternative Calculation Method (WACM) for consideration by the program administrators for program funding.

If you have not already done so, it is important that you contact your local planning and zoning boards to gain approvals for installing wind equipment as soon as possible. The NJCEP publishes a list of adopted small wind ordinances by municipalities in NJ. These ordinances can serve as valuable resources to help your municipality approve your installation. For more information on the Model Ordinance and lists of towns that have adopted a model ordinance go to: <http://www.njcleanenergy.com/renewable-energy/technologies/wind/small-wind-systems/small-wind-systems>

If you submit a complete Pre-Application, you will receive a pre-approval letter within 3 weeks of receipt. If you submit a complete Wind Application including the Pre-Application and Full Application, you will receive a Rebate Approval Letter within 4 - 6 weeks of receipt.



Application Checklist and Forms update



2010 Renewable Energy Incentive Program (REIP) Wind Pre-Application & Application Checklist



Listed below is the documentation required when submitting a Pre-Application packet or Application packet.

Pre-Application packet must include:

- Completed Pre-Application Wind Equipment form (Do not complete the incentive request calculation section)
- Printouts of the average annual wind speed at 50 meters using the NASA wind map: Visit <http://eosweb.larc.nasa.gov/cgi-bin/sse/grid.cgi>
- It is strongly recommended that you include a printout of the average annual wind speed at 50 meters using at least one of the two fee-based wind resource maps listed below: (The wind REIP program uses the average of the wind speed results from each wind map). If only the NASA wind map is provided, the wind speed will be reduced to reflect a more realistic result when using only one wind map and consequently will result in a lower incentive rebate.
 - o <http://www.3tier.com/firstlook/>
 - o <https://www.windnavigator.com/cms/>
- A one-page site map must accompany this pre-application submittal. This document can be an **overhead view drawing or a single line electrical diagram**. It must indicate the location of the wind turbine(s), any obstructions within 500 feet of the turbine and the obstructions associated heights and distance from the turbine(s). The applicant must show that the entire rotor diameter be 30 feet above any obstructions within 500 feet. If this is not possible, a wind site assessment will be required by a certified wind site assessor. The installation address must be included on this site map. If site elevation changes more than 10 feet within the 500 foot radius, then a site topographical map must also be included.
- Completed Wind Alternative Calculation Method (WACM) if turbine is not listed on Approved Turbine list: Visit: www.njcleanenergy.com/renewable-energy/programs/renewable-energy-incentive-program/for-customers/applications/wind-alternative-calculation-method

Full Application packet must include:

- Completed REIP Application with all appropriate signatures and SSN / EIN
- All documents listed in the Pre-Application packet unless you did submit the Pre-Application packet separately at an earlier date and nothing has changed with your planned system or site.
- Completed Technical Worksheet – Wind Equipment. (Do not complete the incentive calculation section)
- Copy of recent electric bills with yearly usage in kilowatt hours or copies of monthly electric bills (last bill within 3 months) for the previous 12 months. **Proof of electric or gas regulated utility account is required to process**

Wind map requirement change



Updated Approved Turbine List



Approved Turbines for rebates*

MANUFACTURER	MODEL	NAMEPLATE CAPACITY (kW)	MANUFACTURER	MODEL	NAMEPLATE CAPACITY (kW)
Abundant renewable energy	ARE 110	2.5	GE Energy	GE 1.6 xle	1600
Abundant renewable energy	ARE 442	10	Northern Power Systems	North Wind 100 (21m)	100
Aerostar	6 meter	10	Proven Engineering	WT6000	6
Bergey Windpower	BWC XL.1	1.0	Proven Engineering	WT15000	15
Bergey Windpower	BWC EXCEL - S	10	Southwest Windpower	Skystream	2.4
Endurance Wind Power	S-343	5	Cascade Engineering	Swift	1.5
Endurance Wind Power	G-3120	35	Turbowinds	T400-34	400
Endurance Wind Power	E-3120	50	Wind Energy Solutions	Tulipo	2.5
Enertech	E-44	40	Wind Energy Solutions	WES 18	80
Entegrity Wind Systems	EW15	50	Wind Energy Solutions	WES 30	250
GAIA Wind	11kW	11	Wind Turbine Industries (Jacob)	26-15	15
GE Energy	GE-1.5 sl/sle/xle	1500	Wind Turbine Industries (Jacob)	31-20	20

Added GE
1.5 MW →

*Applicants must include with the Pre-Application package the completed WACM spreadsheet when using a turbine that is not on the approved list for consideration by the program administrators. To complete the WACM spreadsheet, visit: www.njcleanenergy.com/renewable-energy/programs/renewable-energy-incentive-program/for-customers/applications/wind-alternative-calculation-method



Wind Alternative Calculation Method update



- Available at: www.njcleanenergy.com/renewable-energy/programs/renewable-energy-incentive-program/for-customers/applications/wind-alternative-calculation-method
- To date – no applications have been submitted using this spreadsheet.
- Feedback on value of the spreadsheet would be appreciated
- If anyone has any experience using it and can provide feedback, please contact Mark Loeser at mark.loeser@csggrp.com



Wind Site Assessor Training



- Date & Time: October 18-22, 2010 – 8:00am to 4:00pm
- Location: Probably CSG office in Iselin, NJ but may change based upon interest in the class
- Registration: Send e-mail only to: melissa.smith@csggrp.com – provide full contact information of participant and in subject line include Wind Site Assessor Training
- Course covers: How to perform a wind site assessment including the factors to evaluate topography and site specific conditions to determine an appropriate wind speed at a location, which is a critical knowledge component in understanding turbine power production.



Feasibility Study update



- Reviewed draft document at last working group meeting 2-25-10; updated document with suggested changes.
- Rollout delayed due to budget constraints. On hold until 2011.
- Next steps:
 - BPU staff currently reviewing draft document
 - Once review complete, will send to small wind working for public comment period
 - Expected to include wind feasibility study program in Honeywell's compliance filing for 2011 programs



Innovative Wind Technology Program update



- Reviewed overview presentation at last working group meeting 2-25-10
- Need to develop program document with details.
- Rollout delayed due to budget constraints. On hold until 2011.
- Next steps:
 - Market Manager to draft program document
 - BPU staff to review draft document
 - Once review complete, will send to small wind working for public comment period
 - Expected to include Innovative Wind Technology Program in Honeywell's compliance filing for 2011 programs

