



California Energy Commission

Possible Changes to the Emerging Renewables Program Guidebook

Hearing Room A

August 3, 2011

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Agenda

- Introduction 9:00 – 9:10
- Staff Presentation 9:10 – 9:40
- Discussion and Comments 9:40 – 1:00
 - Incentive Structure
 - Reporting Generation Data
 - Funding Limits
 - Eligible Equipment Listing
 - General Comments



Background

- On March 4, 2011 the Emerging Renewables Program was put in a temporary suspension
- On April 14, 2011 staff held a workshop to discuss possible topics and took suggestions from stakeholders on changes to the ERP Guidebook
- Today's discussion will present staff's proposed changes to the ERP Guidebook



1231 Proceeding

- The Energy Commission has opened a new proceeding to take action on the DyoCore complaint that was filed on July 26, 2011. The proceeding has been assigned docket number 11-CAI-03.
- Information about the complaint proceeding can be found on the Energy Commission website at the following address:
http://www.energy.ca.gov/renewables/emerging_renewables/11-cai-03/



Incentive Structure

- Two major changes to the ERP incentive structure:
- The *total amount* of the rebate shall not exceed 50 percent of the net purchase price of the system before the ERP incentive
- The rebate payment will be split into two installments
 - 90 percent of the rebate will be paid after a rebate claim package is approved
 - 10 percent of the rebate will be paid after generation data have been reported to the Energy Commission.



Reporting Generation Data

- In order to claim the remaining 10 percent of the rebate, the rebate recipient must report generation data from the installed renewable energy system.
- Once a rebate payment claim (R2 package) has been approved, the rebate recipient will be issued payment for 90 percent of the rebate and be sent a new form – the R6 form



Reporting Generation Data Cont'd

- Once the R6 form has been received, rebate recipients have 12 months to report the kilowatt-hour meter reading of the system at least **six** times with a *minimum* of 30 days between each report
- One of the six reports must take place 12 months after initially receiving the R6 form
- After the final report has been made, the rebate recipient will have 90 days to submit the completed R6 form to the Energy Commission in order to claim the remaining 10 percent of the rebate



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Appendix 6 Sample of Completed CEC-1038-R6 Form

R6	DATA REPORTING EMERGING RENEWABLES PROGRAM	
	 RENEWABLE ENERGY PROGRAM CALIFORNIA ENERGY COMMISSION	Mail complete payment claim to: California Energy Commission ERP, Data Reporting 1516 Ninth Street (MS-45) Sacramento, CA 95814-5512
1. System Information		
Site Address: _____		Rebate Recipient: _____
California Energy Commission 1516 Ninth Street Sacramento CA, 95814		John Doe California Energy Commission 1516 Ninth Street Sacramento CA, 95814
System Specifications:		
Equipment Model: ABC Wind Turbine		Equipment Quantity: <u>1</u>
Inverter Model: ABC Inverters		Inverter Quantity: <u>1</u>
Meter Model: ABC Meters		
2. System Data		
Data Reporting to start on: <u>January, 2012</u> (month, year)		
Kilowatt-hour performance of system by month:		
January: _____	Date of meter read: _____	July: <u>6000 kwh</u> Date of meter read: <u>7/18/12</u>
February: <u>1000 kwh</u>	Date of meter read: <u>2/12/12</u>	August: _____ Date of meter read: _____
March: _____	Date of meter read: _____	September: <u>7000 kwh</u> Date of meter read: <u>9/9/12</u>
April: <u>3000 kwh</u>	Date of meter read: <u>3/16/12</u>	October: _____ Date of meter read: _____
May: <u>4000 kwh</u>	Date of meter read: <u>4/22/12</u>	November: <u>8000 kwh</u> Date of meter read: <u>11/10/12</u>
June: _____	Date of meter read: _____	December: _____ Date of meter read: _____
Total kilowatt-hours generation after 12 months: <u>12000 kwh</u>		
10. Declaration		
<small>I, the undersigned party, declare under penalty of perjury that the information provided in this form and the supporting documentation submitted herewith is true and correct to the best of my knowledge.</small>		
<small>I further acknowledge that I am aware of the requirements and conditions of receiving funding under the Emerging Renewables Program (ERP) and agree to comply with all such requirements and conditions as provided in the Energy Commission's ERP Guidebook and Overall Program Guidebook as a condition to receiving funding under the ERP.</small>		
Rebate Recipient		
Print Name: _____		
Signature: _____		
Date: _____		



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1. Confirmation of Reservation Amount

_____ has been granted a reservation of \$ _____ for a _____ kW renewable energy generating system. \$ _____ will be paid upon submission and approval of the payment claim, and \$ _____ will be paid upon submission and approval of reported system generation data. The reservation will expire on _____. The system is being installed at _____ and is expected to produce _____ (kWh per year). The payment will be made to the _____.

The generation system must be completed and the claim submitted with the appropriate documentation by the deadline. Claims must be postmarked by the expiration date or the reservation will expire. This reservation is non-transferable. System must be installed at the installation address and sold to the above.



Funding Limits

- Due to funding limitations, the ERP will divide the funds available to the program evenly between rebates for small wind turbines and fuel cells. If more funds are made available, then additional allocations may be made for each technology
- Once the funding for a given technology is exhausted, through the payment of rebates and the issuance of rebate reservations, the Energy Commission will stop accepting rebate reservation applications for that technology



Funding Limits Cont'd

- Only complete applications will be approved and receive fund encumbrances
- Along those lines, no single retailer may have more than 20 rebate applications, as represented by R1 form, submitted to the Energy Commission at a single point in time
- Once a retailer has reached its 20 application limit, they will only be allowed to submit additional applications once an R2 form has been issued for an existing application



Listing Criteria for Small Wind

- The option to provide 12 months of generation data will no longer be allowed for manufacturers to add small wind turbines to the list
- All small wind turbines that wish to be added to the list of eligible equipment must receive a certification to either the IEC 61400-2 standard or the AWEA 9.1-2009 standard
- The certifications must be issued by an independent certification body



Listing Criteria Cont'd

- All turbines currently on the Energy Commission's list of eligible equipment will have 12 months from the date of the Guidebook adoption to furnish proof of certification OR a letter from an eligible certifying body, indicating that the equipment is in queue to be certified.
- Any turbine that has not been certified or listed as in a queue to be certified at the end of 12 months will be removed from the Energy Commission's list of eligible equipment.
- After 18 months from the date the Guidebook is adopted, any turbine that has not passed from a queue status to receiving a complete certification will be removed from the list of eligible equipment.



Listing Criteria Cont'd

- Any equipment that is removed from the list may reapply to be listed once proof of certification can be shown
- Small wind turbines that are listed on the list of eligible equipment, but are not eligible to participate in the Emerging Renewables Program, such as turbines with a rated generating capacity exceeding 50 kilowatts, will be removed from the list of eligible equipment 12 months from the date the Guidebook is adopted.



De-listing Criteria

- While the third-party certification is being completed, additional criteria will be added to insure that all turbines meet a certain performance benchmark
- Any small wind turbine with a power coefficient (C_p) of greater than 0.593 will be removed from the list of eligible equipment
- A C_p value of 0.593 represents the theoretical maximum amount of kinetic energy that can be captured from the wind, according to the Betz Limit Theory



Availability of the Draft Guidebook

- The *Draft Emerging Renewables Program Guidebook, Eleventh Edition*, is available online at:
<http://www.energy.ca.gov/2011publications/CEC-300-2011-004/CEC-300-2011-004-D.pdf>
- All changes that have been made to the Guidebook are shown in red



General Comments



Written Comments

- Written comments must be submitted by **5:00 PM** on **August 12, 2011**
- Comments should be emailed to: docket@energy.state.ca.us
Please include docket number: **02-REN-1038**
Please indicate *Staff Workshop on Proposed Changes to the Emerging Renewables Program Guidebook* in the subject. **To ensure that your comments have been properly submitted to the docket, please also mail a hard-copy to the address below.**
- Comments may also be mailed to:
California Energy Commission
Dockets Office, MS-4
Re: Docket No. 02-REN-1038
1516 Ninth Street
Sacramento, CA 95814-5512



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