

**CALIFORNIA
ENERGY
COMMISSION**

**EMERGING
RENEWABLES
PROGRAM**

Eighth EDITION

FINAL GUIDEBOOK

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I. Introduction

This *Emerging Renewables Program Guidebook* is one of several guidebooks the California Energy Commission (Energy Commission) has adopted to implement the Renewable Energy Program pursuant to Senate Bill 1038¹, Senate Bill 183², Senate Bill 1250³, and Senate Bill 107.⁴ It describes the requirements for receiving funding for the installation and operation of non-solar renewable energy systems under the Emerging Renewables Program (ERP) element of the Renewable Energy Program.

The Energy Commission has adopted additional guidebooks to address the requirements for the other elements of the Renewable Energy Program and guidelines governing the overall administration of the Renewable Energy Program. The *Overall Program Guidebook* describes how the Renewable Energy Program will be administered and includes information and requirements that apply to all program elements of the Renewable Energy Program.

Applicants requesting funding under the Emerging Renewables Program must satisfy the requirements contained in both the *Overall Program Guidebook* and this *Emerging Renewables Program Guidebook*. This guidebook replace the previous guidebook governing the Emerging Renewables Program (*the Emerging Renewables Program Guidebook, Seventh Edition*). Applications for funding approved under the previous program guidebook remain governed by the previous guidebook until the projects are completed, expired, or cancelled.

Funding for the installation and operation of solar photovoltaic systems on new residential construction is available under the Energy Commission's *New Solar Homes Partnership*. Funding for the installation and operation of solar photovoltaic systems on existing residential and new and existing non-residential buildings is available under the California Public Utilities Commission's *California Solar Initiative*. Information on these two programs can be found at: [www.gosolarcalifornia.ca.gov].

A. Purpose

The ERP was created to help develop a self-sustaining market for renewable energy systems that supply on-site electricity needs across California. Through this program, the Energy Commission provides funding to offset the cost of purchasing and installing new renewable energy systems using emerging renewable technologies.

¹ Stats. 2002, Ch. 515, §§ 15 & 16, as codified in Public Utilities Code §§ 383.5 and 445.

² Stats. 2003, Ch. 666, §§ 1 & 2, as codified in Public Resources Code §§ 25401.6, and 25740 – 25751.

³ Stats, 2006, Ch. 512, §§ 9-14, as codified in Public Resources Code §§ 25740.5 – 25747.

⁴ Stats, 2006, Ch. 464, §§ 7 & 9, as codified in Public Resources Code §§ 25744.5 and 25746.

The goal of the ERP is to reduce the net cost of on-site renewable energy systems to end-use consumers, and thereby stimulate demand and increased sales of such systems. Increased sales are expected to encourage manufacturers, sellers, and installers to expand operations, improve distribution, and reduce system costs.

Funding for the Renewable Energy Program is collected from the ratepayers of four investor-owned utilities in California to support existing, new, and emerging renewable electricity generation technologies. For more information about the Renewable Energy Program, please visit the Energy Commission's Web site at: [\[www.energy.ca.gov/renewables\]](http://www.energy.ca.gov/renewables).

For consumer tips on purchasing a renewable energy system to supply on-site electricity needs please refer to Appendix 2 of this guidebook. Also see *Buying a Small Wind Electric System, February 2002* for further information. This and other documents are available on the Energy Commission's Web site at: [\[www.consumerenergycenter.org\]](http://www.consumerenergycenter.org).

B. Overview

The ERP provides electricity consumers with a financial incentive to install renewable energy systems on their property. The financial incentive varies based on system size, technology, and type of installation. The incentive is paid once the system is installed and operational. The consumer must apply to the Energy Commission for funding using the protocols in this guidebook.

To qualify for an incentive, both the consumer and the renewable energy system must satisfy a number of requirements. The consumer must receive electricity distribution service at the site of installation from an existing in-state electrical corporation contributing funds to support the program. These electrical corporations are Pacific Gas & Electric Company (PG&E), Southern California Edison Company (SCE), San Diego Gas & Electric Company (SDG&E), and Southern California Water Company (doing business as Bear Valley Electric Service (BVE)). The renewable energy system must utilize an emerging renewable technology, such as fuel cells or small wind turbines.⁵ The system must also be interconnected to the utility distribution grid, must use new components that are certified or tested to be reliable, and must come with a five-year warranty. In addition, the renewable energy system must generate electricity to offset the consumer's on-site electrical load.

In most cases, an applicant submits a Reservation Request Form (CEC-1038 R1) and supporting documentation to reserve a fixed amount of program funds. Once the Reservation Request Form is reviewed and approved, the Energy Commission sends the applicant a Payment Claim Form (CEC-1038 R2) that identifies the amount of funds

⁵ Rebates are available for systems less than 30 kilowatts in size (wind systems up to 50 kilowatts in size may participate, but the rebates for such systems are limited to less than 30 kilowatts)

reserved and the date upon which the reservation expires. The applicant then proceeds to install an eligible system. When the system is completed and operational, the applicant then submits the Payment Claim Form and supporting documentation to the Energy Commission. If the applicant installs an eligible system, meets all program requirements, and submits a completed Payment Claim Form with supporting documentation prior to the expiration date of the reservation, the Energy Commission reviews the amount reserved and the incentive the applicant is eligible to receive and makes the appropriate payment.

For forms or additional information, contact the Energy Commission's call center at: (800) 555-7794 or go to [www.consumerenergycenter.org/erprebate].

II. Program Eligibility Requirements

Effective January 1, 2007, two technologies are eligible for ERP funding. They include the following:

1. Small Wind Turbines - small electricity-producing, wind-driven generating systems with a rated output of 50 kilowatts or less;
2. Fuel Cell - the conversion of sewer gas, landfill gas, or other renewable sources of hydrogen or hydrogen rich gases into electricity by a direct chemical process.

Systems that use the above technologies must satisfy the following eligibility criteria as explained in this chapter. Other technologies may be added to this category if they meet, to the Energy Commission's satisfaction, the criteria identified in Appendix 3.

A. System Ownership

Eligible renewable energy systems may not be owned by an electrical corporation as defined in Public Utilities Code section 218, or by a local publicly owned electric utility as defined in Public Utilities Code section 9604(d).

B. Grid Interconnection

Eligible renewable energy systems must be permanently interconnected to the electrical distribution grid of the utility serving the customer's electrical load. Portable systems are not eligible. The site where the system is installed must receive electrical distribution service from PG&E, SCE, SDG&E, or BVE. The system interconnection must comply with applicable electrical codes and utility interconnection requirements.

C. System Components

The major system components must be certified or approved as described in Appendix 3. Approved major components are on the Energy Commission's lists of eligible equipment and are available at: [www.consumerenergycenter.org/erprebate].

The applicant should confirm that the components purchased for a system are eligible when applying for ERP funding. Energy Commission staff will confirm that equipment identified in a reservation application meets eligibility requirements prior to an application being approved. However, if the applicant begins or completes the installation before the Energy Commission has approved the reservation, equipment lists may have changed, and significant and costly changes may be needed for the system to comply with the eligibility criteria.

D. New Equipment

All major system components (requiring certification per section C) must be new and must not have been previously placed in service in any other location or for any other application. Equipment purchased or installed more than 18 months before applying for a reservation is not eligible.

E. System Sized to Offset On-site Electricity Load

For all eligible systems, regardless of technology, the system must be sized so that the amount of electricity produced by the system primarily offsets part or all of the customer's electrical needs at the site of installation. The expected production of electricity by the system may not be more than the historical or expected electrical needs of the electricity consumer at the site of installation. See Appendix 4 for further details on how to determine the maximum allowed system size.

F. System Installation

All systems, if installed under contract, must be installed by appropriately licensed California contractors in accordance with rules and regulations adopted by the State of California Contractors State Licensing Board. Installation contractors must have an active A, B, or a C-10 license.

Systems may also be self-installed by the purchaser (owner). While such installations are eligible for funding without the licensing requirements listed, they will be eligible only for a lesser rebate as described in Chapter III.

In all cases, systems must be installed in conformance with the manufacturer's specifications and with all applicable electrical and building codes and standards.⁶

G. Five-Year Warranty Requirements

All systems must have a minimum five-year warranty to protect the purchaser against system or component breakdown. The warranty must cover and provide for no-cost repair or replacement of the system or system components including any associated labor for five years. The warranty must also cover the major components of the generating system against breakdown or degradation in electrical output of more than ten percent from their originally rated electrical output during the five year period. Major

⁶ For information on restrictions placed on owner-builders or self-installers, contact the Contractors State License Board at (800) 321-CSLB to obtain a current edition of the Contractor's License Law and Handbook.

components are defined as wind turbine generators, fuel cell reformers and cells, and inverters. The warranty may be provided in combination by the manufacturer and installer.

Self-installed systems must have a minimum five-year warranty to protect the purchaser against breakdown or electrical output degradation of major system components. In this case, the warranty need not cover the labor costs associated with removing or replacing major components, because any repairs would be done by the self-installer or at the self-installer's expense.

H. System Performance Meter

All systems must be installed with a performance meter⁷ so that the customer can determine the amount of energy produced by the system. The meter must be listed with the Energy Commission and measure the total energy produced by the system in kilowatt hours (or watt hours) and have a manufacturer's uncertainty specification of ± 5 percent. The meter must retain the kilowatt-hour production data in the event of a power outage and must provide a display of system output that the customer can easily view and understand. A system need not include a separate meter if the system is installed with an inverter that contains internal metering and display equipment that meets the meter requirements above. The meter requirement also applies to system additions if the existing system does not include a performance meter. A list of eligible performance meters and inverters that have built-in meters is available at: www.consumerenergycenter.org/erprebate].

I. Equipment Sellers

To participate in the ERP, companies who sell system equipment must provide the Energy Commission with the following information on form CEC-1038 R4:

1. Business name, address, phone, fax, and e-mail address
2. Owner or principal contact
3. Business license number
4. Contractor license number (if applicable)
5. Proof of good standing on the records of the California Secretary of State, as required for corporate and limited liability entities
6. Reseller's license number

This information must be submitted before a company can become eligible to participate in the ERP. To remain eligible, a company must resubmit this information annually, by March 31, using form CEC-1038 R4. This annual submittal is required even if the

⁷ A performance meter is a device which measures and displays the energy output of the renewable energy system.

information identified in the company's prior R4 submittal has not changed. In addition, a company must submit an updated R4 form any time its reported information has changed. The updated R4 form must be submitted to the Energy Commission within 30 days of the change of any reported information.

The above information must be on file with the Energy Commission before the applicant can receive any reservation confirmation or payment. The Energy Commission will compile the information and make it available to consumers to assist them in making purchase decisions and effectuating remedial action. Information about registered equipment sellers will be posted on the Energy Commission's website at: [\[www.consumerenergycenter.org/erprebate/database\]](http://www.consumerenergycenter.org/erprebate/database).

The completed CEC-1038 R4 form may be submitted by FAX to (916) 653-2543 or by mail to:

ERP Seller Registration
California Energy Commission
1516 - 9th Street, MS-45
Sacramento, CA 95814-5512

Payment requests must be mailed, but reservation requests, seller registration, and responses to Energy Commission correction requests may be faxed.

J. Audits and Inspections

The Energy Commission will conduct audits of the applications it receives to verify that the information provided in the applications is true and correct. The Energy Commission may also conduct field inspections to verify systems are operating properly and installed as specified in the reservation request and payment claim applications.

In the event that a contractor, equipment seller, or purchaser provides information in a reservation application or payment request that appears to be questionable, the Energy Commission may take the following steps to clarify the questionable information:

1. Stop review of the application containing the questionable information to investigate further.
2. Require additional documentation from the contractor, equipment seller, and/or purchaser to verify the accuracy of the questionable information.

If the questionable information appears to be false or misrepresented, the Energy Commission will take one or more of the following corrective measures:

1. Reject the reservation application, or if a payment application, reject the payment request and cancel the reservation.

2. Notify the proper authorities, including the Contractors State Licensing Board, so appropriate enforcement action may be taken.
3. Suspend review of all other applications submitted by or associated with the contractor, equipment seller, or purchaser to review whether false or misrepresented information was provided in those applications.
4. Require additional documentation from the contractor, equipment seller, or purchaser to verify if false or misrepresented information was provided with these other applications.
5. Notify purchasers identified in these other applications that additional information will be required to keep approved applications active or to process payment requests, and that the processing of any such applications will likely be delayed.
6. Require supporting documentation for all new applications and payment requests submitted by or associated with the contractor or equipment seller.
7. Require that all payment requests submitted by or associated with contractor, equipment seller, or purchaser be supported by additional verification of payments made by the purchaser, including bank statements, cancelled checks, credit card statements, or other similar documentation.
8. Post information on the Energy Commission website which informs consumers that:
 - 1) additional information is required when applying for reservations or payments using the contractor or equipment seller, and
 - 2) any applications submitted by or associated with the contractor or equipment seller will be subject to a more thorough review which will delay the processing of these applications.

III. Incentives Offered Through This Program

A. Rebates Offered

The rebates offered through this program are based on the generating capacity of a system and vary by system size, technology, and type of installation. The incentive must be used to reduce the purchase or lease cost of the eligible system, or the cost of electricity produced by the eligible system for the on site customer.

The rebates offered for professionally installed new systems are identified below in Table 1. Lower rebates, fifteen percent (15 percent) less, are also available for owner or self installed systems. Additionally, special rebates may be available for systems installed for affordable housing. Because these special rebates target specific groups or classes of customers, they are discussed separately in Chapter VIII of this Guidebook. Under no circumstance will the incentive from the ERP exceed the net purchase price of the system to the final customer (before ERP incentives).

Table 1 lists the rebate levels available as of January 1, 2007 by size category and technology type. These rebate levels are scheduled to decline over time as described in Section D of this chapter.

Table 1: Rebates Available for Emerging Renewable Systems

Technology Type	Size Category	Rebate Offered
Fuel Cells using a renewable fuel	<30 kW	\$ 3.00 per watt
Wind	First 7.5 kW	\$2.50 per watt
	Increments between >7.5 kW and <30 kW	\$1.50 per watt

B. Other Incentives May Affect Your Rebate Amount

Incentives received from sources other than the ERP that lower the cost of a generating system may affect the rebate amount you receive from the Energy Commission. No less than five percent of incentives received or expected must be subtracted from the rebate amounts listed in Table 1 if the incentives are from other utility incentive programs, a State of California sponsored incentive program, or a federal government sponsored incentive program, other than tax credits. The percent reduction will be increased as necessary to ensure the sum of all incentives received or expected from all sources, including the ERP, does not exceed the total cost of the system. No applicant may be issued a reservation or receive payment from the ERP for any system or portion of a

system that has received payment from the Energy Commission's New Solar Homes Partnership, California Public Utilities Commission-approved Self-Generation Incentive Program or California Solar Initiative, the Rebuild a Greener San Diego program, or any other rebate program using electric utility ratepayer funds, or that is participating in and eligible to receive payment under such programs.

See Chapter VIII of this guidebook for information regarding rebate levels for qualifying affordable housing.

C. Adjustment of Rebate Levels

The rebate levels for all technology types, over time, will be periodically reduced and will be included in future editions of the ERP Guidebook.

IV. Reservation Process

Through this program, funding is reserved for applicants who have committed to purchase and install an eligible system at a given site. A funding reservation provides the purchaser assurance that the reserved funds will be available when the payment claim is made. The standard reservation period is for 9 months. The reservation period for systems installed on public and charter schools and new construction is 18 months. Multiple systems at each site are treated as a single system for purposes of determining the appropriate rebate. The site is defined as a single parcel of real property plus any improvements on that site.

In cases where multiple systems are installed, all generating capacity on the site is treated as a single system. For example, a 5 kW renewable energy system and a 3 kW renewable energy system on the same property are treated as a single 8 kW system for purposes of reserving funds and calculating the rebate payment. However, in cases where there are five or more high density dwelling units, such as condominiums or apartments on a single parcel, utility meter numbers will be used to determine the number of reservations that may be granted for systems installed at the site. For example, an apartment complex comprised of five separate apartments each with its own designated electric utility meter is eligible to receive five separate reservations up to a maximum of 30 kW each.

Applicants with an 18-month reservation period cannot reapply for a new reservation during the term of their original reservation period. These applicants may reapply for a new reservation only after the term of their original reservation period expires, and may qualify for rebate levels available at that time.

Funding reservations are made only for complete applications on a first-come, first-served basis. Applications that are missing application forms or have omissions or discrepancies will not be approved or processed. The applicants that submitted these applications will be notified and directed to submit new applications if interested in applying for program funding. The applications that are rejected will normally be kept by the Energy Commission for approximately 3 months after being rejected. In the case of omissions that do not affect eligibility or the amount reserved, the purchaser and equipment seller may be asked to provide additional information to clarify the application.⁶ If additional information is requested, the application will not be processed unless the requested information is provided within the time period specified in the request (usually 30 days). If the requested information is not provided within the time period specified in the request, the purchaser will be notified to reapply as specified above.

⁶ Examples of omissions that do not affect eligibility include situations where the required information is provided in an application, but the information is not legible, or where pertinent information is missing from an application's supporting documentation, as in the case of a partial utility bill that does not clearly specify a street address.

No payment will be made unless the installed system meets all applicable ERP requirements even if funds are reserved.

Only one reservation and one rebate payment will be allowed for each site with a standard nine-month reservation period.⁷ The application information and funding reserved can be modified (except for the reservation expiration date) within that nine-month reservation period with supporting documentation and if sufficient funds are available.

A. Reserving a Rebate

This section describes the paperwork that is normally required to reserve funding for a standard rebate. Please be sure to submit a complete reservation application and provide all the supporting documentation as described below to receive your reservation approval. The application will not be reviewed if incomplete and will be rejected. The reservation process will be delayed if incorrect or non-complying information is received. To obtain a rebate reservation, all applicants must submit at minimum the following items:

- A completed Reservation Request Form (CEC-1038 R1)
- Copy of agreement(s) to purchase and install a system
- Evidence that site electricity load is supplied by an eligible utility
- Payee data record (Form STD-204) for the rebate recipient

Please see Chapter V for the documentation requirements to claim a rebate payment.

Chapter VIII covers the special funding requirements for the rebates offered for affordable housing. Appendix 5 covers new construction, systems installed on property owned by retailers and/or contractors, adding to existing systems, and leased systems.

1. Reservation Request Form

The Reservation Request Form (CEC-1038 R1) is a form that identifies most of the information needed about the proposed system and specifies what information must be submitted with the application.

The purchaser of the system must always sign the Reservation Request Form. If the equipment seller is designated as the payee, the seller (retailer or wholesaler) must also

⁷ An applicant with a standard reservation may only cancel his or her reservation and reapply for a new reservation within the original nine-month reservation period if the rebate level has dropped at least one level from the rebate granted in the original reservation. A letter explaining the request must be submitted with a new reservation request form and signed by the purchaser and seller.

sign the Reservation Request Form. The purchaser must use a registered equipment seller. A listing of registered equipment sellers may be found at: [\[www.consumerenergycenter.org/erprebate/database\]](http://www.consumerenergycenter.org/erprebate/database).

Eligible equipment sellers need to have filed business information (the CEC-1038 R4 form) with the Energy Commission to be eligible to participate in the program. Reservation requests that identify ineligible retailers will not be approved unless the required business information is filed with the Energy Commission.

Detailed instructions are included with the Reservation Request Form (CEC-1038 R1). These instructions also provide information on how the rebate is calculated when the rated system output exceeds the inverter(s) capacity. Appendix 1 includes a blank copy of the Reservation Request Form and accompanying instructions. To obtain additional blank forms, call the Energy Commission Call Center at (800) 555-7794 or download the forms online from the following Energy Commission website: [\[www.consumerenergycenter.org/erprebate\]](http://www.consumerenergycenter.org/erprebate).

2. Evidence of Agreement to Purchase and Install a System

Evidence of an agreement(s) to purchase and install a system must be demonstrated. How this is demonstrated depends upon whether the system is 1) owner-installed; 2) contractor installed where the equipment seller is a separate entity; or 3) contractor-installed where the same contractor also performs the installation.

In each of these three cases, information concerning the contractual agreements must be provided in the Reservation Request Form (CEC-1038 R1) and must be consistent among agreements and with the Form, or the application may be rejected. Regardless of the situation, agreements for the purchase of a system or system equipment must be in writing and clearly include, at a minimum, the following information:

1. The quantity, make and model number (as shown on the Energy Commission lists of eligible equipment) for the inverters, system performance meters, wind turbines or other generating equipment
2. The total purchase price of the system before applying the rebate
3. Language indicating the purchaser's commitment to buy the system
4. Printed names and signatures of the purchaser and equipment seller's authorized representative

Installation contracts must comply with the Contractors State License Board (CSLB) requirements. In addition, these contracts must contain the following information:

1. Name, address and contractor's license number of the company performing the system installation
2. Site address for the system installation
3. Description of the work to be performed
4. Total agreed price to install the system
5. Payment terms (payment dates and dollar amounts)
6. Printed names and signatures of the purchaser and the company's authorized representative

Please refer to the CSLB website for more information on CSLB guidelines at: [\[www.cslb.ca.gov\]](http://www.cslb.ca.gov).

Applications with installation contracts that appear to be deficient may be forwarded by the Energy Commission to the CSLB for verification. Entities without a valid A, B or C-10 contractor's license may not offer installation services or charge for installation in any agreement.

The above requirements are sufficient evidence of an agreement to purchase and install a system for the case where a contractor sells and installs the system. For the other two cases, the following case-specific requirements must be satisfied.

A. Owner or Self-Installed System

In situations where the system is installed by the system owner, the applicant must provide the following information:

- An equipment purchase agreement as described above, OR
- In cases where there is not a signed agreement to purchase equipment the purchaser may provide invoices or receipts showing that at least ten percent of the system equipment purchase price (generating equipment and inverters) has been paid to the seller(s).⁸

B. Professionally Installed System with Separate Seller and Installer

In situations where the purchaser is purchasing the system from one company and hiring a separate company (licensed contractor) for installation, the purchaser must obtain proof of his or her commitment to purchase and install the system in separate documents as follows:

- An equipment purchase agreement as described above, OR
- In cases where there is not a signed purchase agreement the purchaser may provide invoices or receipts showing that at least 10 percent of the system

⁸ An example of this situation is where the purchaser buys new equipment via the Internet or mail order.

equipment purchase price (generating equipment and inverters) has been paid to the seller(s), AND

- An installation contract from the second company as described above

3. Evidence that Site Electricity Load is Supplied by an Eligible Utility

If the installation location currently has electrical service, the applicant must submit a recent copy of the utility bill showing the service address of the installation site, the name of the applicant, electric energy usage, and the utility name. Submit all pages of a utility bill to ensure that this information is provided. **The utility bill should be no older than six months from the date of application.** If the customer name on the utility bill is not the same as the applicant's, provide an explanation. This or other documentation must show that the annual on-site electrical load justifies the proposed system size before payment will be made (see Appendix 4).

Exception only for new construction - If the installation location is a new facility without electrical service, the applicant must identify on the Reservation Request Form (CEC-1038 R1) the electric utility that will provide electric service to the site. Documentation to show that the annual on-site electrical load justifies the system size will need to be provided before payment will be made. (See Appendix 4 for program requirements for on-site electrical loads. See also Appendix 5, Section A for additional requirements.)

4. Payee Data Record (Form STD-204)

This form must be completed by the person or business entity identified as the rebate payee on the Reservation Request Form (CEC-1038 R1). The payee data record is still required even if the rebate payee chooses to assign the payment to another party. If the designated payee has submitted a complete STD-204 form with a prior application and has already received a rebate payment within the last two years from the Energy Commission, a new STD-204 is not needed again. In these cases the Energy Commission will use data from the previously submitted STD-204 form. If the data provided in a previously submitted STD-204 has changed, the payee must notify the Energy Commission and submit a new STD-204 form.

5. Submitting Your Complete Reservation Application

The complete reservation request application must be delivered by FAX to (916) 653-2543 or by mail to:

ERP Reservation Request
California Energy Commission
1516 - 9th Street, MS-45
Sacramento, CA 95814-5512

If the application is mailed close to a scheduled rebate level decline, it must be postmarked no later than the last day before the decline to be considered for the higher rebate level. No funding will be reserved if an application is incomplete or illegible, has conflicting information or does not otherwise comply with the program requirements. The application will be approved for a reservation based on the date it is deemed complete and not the date it was first submitted. The rebate level and other program criteria applicable on the date the application is deemed complete will apply.

As described earlier in this chapter, if the reservation request application is missing required forms or has other omissions or discrepancies, the purchaser will be notified that the application will not be approved. Any new application will be subject to the program requirements and funding availability. **Applicants are strongly encouraged to keep copies of all applications and supporting documentation submitted to the Energy Commission.**

The Energy Commission posts information on the Internet so that applicants can check the status of their applications. To check the status of your application(s) on-line, go to: [\[www.consumerenergycenter.org/erprebate\]](http://www.consumerenergycenter.org/erprebate).

The available rebate amount changes during the term of the program. Therefore, the Energy Commission recommends that applicants wait to install system equipment until after they receive a confirmation indicating the amount of funding that has been reserved for their rebate.

V. Payment Process

A. Claiming a Rebate Payment

To receive payment of your rebate, you must comply with all program requirements and make a complete claim for payment before the expiration of your reservation.

1. Payment Claim Form

The Energy Commission will send a copy of the Payment Claim Form (CEC-1038 R2) to the purchaser and designated payee to confirm the amount of funding reserved on the purchaser's behalf. In most cases, the parties entering into the purchase and installation agreement(s) (purchaser and equipment seller and/or installer) must read, sign, and date the Payment Claim Form. If the purchaser alone applied for and is to receive the rebate, only the purchaser needs to sign the Payment Claim Form. This form must be returned to the Energy Commission by mail, as original signatures are required to process a payment. Please sign the form so that it is clear the signatures are original. Signing in black ink can make it difficult to distinguish whether the signature is original or a copy. In some cases, a new form with clearly original signatures may be requested. Stamped signatures are not acceptable.

Any changes to the information provided on the previously submitted Reservation Request Form (CEC-1038 R1) must be noted in the space provided on the Payment Claim Form (CEC-1038 R2). Changes from the previously submitted Reservation Request Form, such as changes in equipment, installer or equipment seller must be identified on the Payment Claim Form. If additional space is required to note such changes, additional pages may be attached to the Payment Claim Form. Changes in equipment from that identified in the previously submitted Reservation Request Form or other changes may affect the eligibility and amount of the rebate.

2. Documentation Confirming Final Payment and System Installation

Applicants must submit final system cost documentation clearly identifying the final amount paid or legally incurred to purchase the system and the final amount paid to install the system. The cost documentation must provide proof of the final amount paid or legally incurred by the applicant to the equipment seller and/or installer and provide sufficient information to clearly identify the equipment purchased and the labor paid. The final amount paid or legally incurred to the equipment seller and/or the final amount paid to the installer must match the cost information identified in the Payment Claim Form. To meet this requirement, the applicant must submit final invoices or a copy of

the final agreement. The actual amount paid or legally incurred by the purchaser to the equipment seller and/or the actual amount paid to the installer must be clearly indicated. If there is no direct proof of actual payment from the applicant to an appropriately licensed installer, the rebate will be reduced to the owner-installed rebate level.

In addition, the final invoices or agreements should clearly indicate the extent to which the Energy Commission's rebate lowered the cost of the system to the applicant. If the applicant has entered into an agreement to pay the equipment seller over time rather than in lump sum, the final agreement must indicate the terms of payment and the amount of any deposits or payments paid by applicant to the equipment seller to date. The cost of any system installation must be paid by the applicant prior to submitting a payment request to the Energy Commission.

The Energy Commission will conduct spot checks to verify that payments were made as identified in the final invoices or agreements provided by equipment sellers and/or installers. As part of these spot checks, the Energy Commission will require applicants to submit copies of cancelled checks, credit card statements, or equivalent documentation to substantiate payments made to the equipment seller and/or installer. (When submitting this documentation, applicants are encouraged to remove their personal account numbers or other sensitive information identified in the documentation.) Applicants must explain the difference if the final amount paid by the applicant is different from the amount of the purchase or installation shown in any agreement or invoice or in the previously submitted Reservation Request Form (CEC-1038 R1).

3. Final Building Permit and Final Inspection Sign Off

Submit a copy of the building permit and the final inspection signoff for the system installation. The name and address on the final building permit and final inspection signoff must match the name and address shown on the Payment Claim Form (CEC-1038 R2) as well as the previously submitted Reservation Request Form.⁹

4. Five-year Warranty

A standard full five-year warranty form (CEC-1038 R3) must be completed and signed by the appropriate party(ies) and given to the purchaser. Submit a copy of this form with the Payment Claim Form to claim the maximum incentive. If the applicant is unable to

⁹ Instead of a building permit and final inspection signoff, public schools, community colleges and public buildings subject to the jurisdiction of the Department of General Services, Division of the State of Architect (DSA), must submit documentation from DSA confirming either compliance with DSA standards, or an exemption from DSA standards.

obtain warranty coverage for labor, the application will be treated as an owner installed system and will receive a rebate amount fifteen percent lower.

Exception for owner installed systems - Submit copies of the manufacturer's five-year warranties for the inverters and generating equipment.

5. Evidence that Site Electricity Load is Supplied by an Eligible Utility

If the site of installation was a new facility without electrical service when the reservation request was submitted, a copy of the applicant's utility statement or other proof from the utility must be submitted before payment can be made. Other proof may include written confirmation from the utility that a meter has been installed at the site and verifying that the site had electrical service prior to the expiration of the reservation. In addition, if an electric utility bill is not provided, the applicant must provide a separate letter from a qualified architect, engineer, or electrical contractor (C-10 licensed) that identifies the expected electricity consumption at the site and verifies that the consumption will satisfy program requirements for system size.

6. System Interconnection with Utility Grid

The applicant must demonstrate that the system is interconnected to the utility distribution grid and that the utility has approved this interconnection for the system's operation at the site of installation. The applicant must demonstrate this by submitting from the utility a letter of authorization to interconnect the system. The rebate payment may be made prior to obtaining the utility letter of authorization if the applicant provides written authorization to the Energy Commission authorizing the applicant's utility to exchange applicant information with the Energy Commission to verify compliance with the interconnection requirements. Forms for this purpose may be obtained directly from the applicant's utility. The authorization may be provided by submitting a completed California Public Utilities Commission form "Authorization to Receive Customer Information or Act on a Customer's Behalf." A customer's authorization must remain in effect for the lesser of three years or the term of the ERP.

By applying for program funding, purchasers authorize the Energy Commission during the term of the ERP to exchange purchaser information with the purchaser's utility in order to verify compliance with program requirements, including requirements for system interconnection to the utility grid.

7. Payee Data Record (Form STD-204)

If the data provided in a previously submitted STD-204 has changed, the payee must notify the Energy Commission and submit a new STD-204. If the payee originally identified has changed, a STD-204 form must be submitted (if the new payee was not previously paid by the Energy Commission). The STD-204 form may be found in Appendix 1 of this guidebook.

B. Submitting a Payment Claim

Once a system is installed, grid-connected¹⁰ and operating satisfactorily, the following documents must be submitted to claim a rebate payment:

- Rebate Payment Claim Form (CEC-1038 R2)
- Documentation confirming what equipment and labor was purchased including the final amount(s) paid to purchase and install the system
- Final building permit and final signoff
- Five-year warranty for the system and labor, if applicable (CEC-1038 R3 form)
- If not already provided, a copy of a recent utility bill (or in the case of a new home or facility, other proof of utility service and expected electricity consumption at the site).
- A copy of the utility letter authorizing interconnection to utility grid (or if letter not available at time of Payment Claim, written authorization allowing the applicant's utility to share applicant information with the Energy Commission to verify compliance with the interconnection requirements).
- Payee data record (STD-204), if not provided with the initial application or the payee was not previously paid by the Energy Commission within the last two years
- Payment Assignment Form (CEC-1038 R5) with wet signature, if the designated payee is assigning payment to another individual or entity

Mail the complete Payment Claim Form (CEC-1038 R2) and supporting documentation to the Energy Commission at the address shown below on or before the expiration date specified on the Payment Claim Form. The Payment Claim Form cannot be submitted by FAX as original signatures are required on the Payment Claim Form to process rebate payments. The request for payment must be received or postmarked on or before the reservation expiration date. Be sure to keep a copy of the Payment Claim Form together with the purchase and installation agreements, contracts, receipts, evidence of payment, building permit and final signoff, utility bill, etc. for your records. If the payment is being assigned to a third party, an original signature of the payee is also required on the Payment Assignment Form (CEC-1038 R5).

¹⁰ Systems must be permanently interconnected to the electrical distribution grid of the utility serving the customer's electrical load unless the system uses an Energy Commission approved device on the customer side of the meter instead of an inverter.

Payment Claim Forms should not be submitted unless a complete application can be provided and all eligibility requirements can be met. The application must document that utility service existed at the site and that the system's installation was signed off by the building department prior to the expiration date of the applicant's reservation, otherwise the system clearly does not meet the conditions of the reservation and the applicant will be required to reapply under the program rules and funding availability in effect at the time of reapplication.

If the payment request application is incomplete, the Energy Commission may request the provision of all missing or unclear information from the appropriate party (purchaser, equipment seller, or installer) to process the request. In that event, the Energy Commission will allow the submitting party up to 60 days to respond with all the required information to approve payment.

The request for payment will be denied if all the requested information is not received within the time period specified by the Energy Commission. Participants submitting a claim that is not received by the expiration date of the applicant's reservation or is otherwise ineligible will be sent a written notice stating the reasons why the claim was rejected. If the claim is made after the expiration date of the reservation or is otherwise ineligible, the applicant may reapply for a rebate reservation, but will be subject to the eligibility requirements, incentives, and funding available at that time of reapplication.

All required forms and supporting documentation required to claim payment shall be mailed to:

ERP Payment Claim
California Energy Commission
1516 9th Street, MS-45
Sacramento, CA 95814- 5512

The Energy Commission intends to make incentive payments within 6 to 8 weeks of receipt of a complete rebate payment claim application. Payment will be made to the seller or purchaser, as designated on the Reservation Request Form (CEC-1038 R1), unless the payee has assigned the payment to a third party, and will be mailed to the address provided by the recipient on the Payee Data Record (Form STD-204), previously submitted to the Energy Commission.

C. Claiming a Rebate Payment Without a Prior Reservation

If a rebate payment is claimed for a system not previously approved for a rebate reservation, the Payment Claim Form (CEC-1038 R2) and required documentation must also be accompanied by a completed and signed Reservation Request Form (CEC-1038 R1). The submittal should meet all requirements needed for approval and payment as described herein. Applicants without a prior reservation should be aware

that program eligibility requirements and rebate levels may have changed since installation and may require the applicant to make significant and costly changes to the system in order for it to qualify for an incentive.

D. Assignment of Rebate Payment

The designated payee of the rebate payment may assign his or her right to receive the payment to a third party by completing the Reservation Payment Assignment Form (CEC-1038 R5) and submitting it with the Payment Claim Form (CEC-1038 R2). The Reservation Payment Assignment Form may not be submitted by FAX as original signatures are required to process the assignment. Payees that assign their rebate payment to a third party will still be reported as the recipients of said payments for tax purposes.

VI. Modifications or Changes to Reservations

A. Can My Installed System Be Different Than My Reservation?

The Energy Commission expects a system to be installed as described in the Reservation Request Form (CEC-1038 R1), but recognizes that minor changes may result during installation. Minor changes do not require prior approval, but must be documented on the Payment Claim Form (CEC-1038 R2) and may change the rebate amount. Minor changes include decreases in the system size (while staying within the Energy Commission size categories), changes in the equipment seller and/or installer, and changes from one make or model of a certified system component to another. Any changed rebate amount that occurs is subject to availability of funding.

1. How Do Changes Affect the Rebate Amount?

Modifications to an approved reservation may be made prior to a payment claim or when the complete payment claim is submitted. When a modification includes parameters that affect incentive amounts, a new incentive amount will be calculated and the calculation will be based on the program parameters at the time a modification request, with supporting documentation, is deemed complete. Parameters affecting the incentive include the installation type, system size, and technology. If any change results in the installed system differing in its rated electrical output or other parameters from the system originally specified in the Reservation Request Form (CEC-1038 R1), a new rebate payment amount will be calculated.

If any change occurs that would have decreased the original rebate calculation, the amount reserved will also be decreased by the same factor. For example, if the installed system is smaller in output than originally specified in the Reservation Request Form, the new rebate amount will be determined by prorating the amount reserved downward (using the same rebate level that was used to calculate the original rebate amount).

Any change that may result in a higher incentive will be recalculated and either reserved or paid without requiring a new application to be submitted. If a system's total calculated capacity is increased in size, the incremental increase in capacity will be calculated at the rebate level available at the time the modification request was made. Similarly, if the installation type changes from a professional install to an owner-install, the incentive is reduced by fifteen percent.

The amount reserved will be increased if the incentive calculated for the entire proposed project is higher than the amount already reserved, provided there is adequate ERP funding for the increased rebate amount. The Energy Commission may not be able to

increase the rebate amount reserved if no additional funds are available. See Appendix 5 for additions to existing systems.

<i>Description of application information and resulting rebate calculations after changes are made</i>	<i>Rebate Calculation</i>	<i>Total Rebate</i>
Base Case – Funding reserved for a 10,000 watt wind system installed by contractor with a \$2.50/watt and \$1.50/watt rebate level	$(7500 \times \$2.50) + (2500 \times \$1.50) =$	\$ 22,500
Change to owner install during \$2.50/watt and \$1.50/watt rebate level with no other changes to base case (owner-installed systems receive 85% of full rebate)	$(7500 \times \$2.50) + (2500 \times \$1.50) \times .85 =$	\$ 19,125
Add 1,000 watts during \$2.30 and \$1.30 rebate level with no other changes from base case	$(7500 \times \$2.50) + (2500 \times \$1.50) + (1000 \times \$1.30/\text{watt}) =$	\$ 23,800
Add 1,000 watts and change to owner install at \$2.30 and \$1.30 rebate level	$(7500 \times \$2.30) + (3500 \times \$1.30) \times .85 =$	\$ 18,530
Reduce size by 500 watts during \$2.30 and \$1.30 rebate level	$(7500 \times \$2.50) + (2000 \times \$1.50) =$	\$ 21,750

VII. Eligible System Costs

In most cases, the system cost will not affect the eligible incentive amount, but is needed for a variety of reasons. First, the Energy Commission is interested in having information about system prices to evaluate future rebate levels and monitor whether the program goals are being achieved. Second, total costs are needed to assure the incentive does not exceed the net purchase price of the system.

A. What System Costs Are Eligible?

In addition to the cost of permits issued by local building departments or appropriate government entities, the labor to install the electricity generation system and sales tax, the program covers only the following specific eligible components and equipment:

Small Wind: The wind turbine, tower, wire, inverter, foundation (for free standing systems), kWh system performance meters, and utility required interconnection equipment.

Fuel Cells: The renewable gas pre-treatment equipment (but not the gas collection or production equipment), fuel processor, cell stacks, inverter and power conditioning equipment, cooling equipment, foundation (for free-standing systems), simple kWh system performance meters, and utility required interconnection equipment.

B. What Costs Are Not Eligible?

Many of the system costs included in the purchase or installation contracts may not be eligible. The purchaser or equipment seller must provide details to separate these costs from eligible costs. The cost of any equipment used to store the electricity produced is not eligible (e.g., batteries, charge controllers, battery cables, etc.). The cost of tools is not eligible.

Other ineligible costs include items that are not typically required for the installation of an eligible system. These ineligible costs include, but are not limited to, tree trimming, fencing, re-roofing, roof repairs or reinforcement, landscaping, relocating vent pipes, and moving HVAC or other equipment. Additionally, financing fees or costs incurred by either the purchaser or the equipment seller are ineligible.

VIII. Special Funding

A. Special Funding for Affordable Housing Projects

Pursuant to Assembly Bill 58 (Keeley, Statutes Of 2002, Chapter 836), the Energy Commission has established a higher rebate level for qualifying systems installed on affordable housing projects. Qualifying systems include systems connected to and serving the energy needs of: 1) residential units subject to affordability requirements, 2) the office and residential unit of the project manager, provided all other residential units in the project are subject to affordability requirements, and 3) the common areas of the project, such as laundry rooms and parking structures, provided all residential units in the project (except the manager's unit) are subject to affordability requirements.

Qualifying systems installed on affordable housing projects will receive a rebate 25 percent higher than the standard rebate level, not to exceed 75 percent of the system cost, if the following additional criteria are met:

- The affordable housing project was undertaken pursuant to section 50052.5, 50053 or 50199.4 of the Health and Safety Code or other affordable housing law. Applicants must demonstrate this by providing documentation that identifies the statutory basis under which the project was undertaken. In addition, the applicant must provide a copy of the regulatory agreement or approval for the project's development that identifies 1) the project, 2) the number of residential units in the project subject to affordability requirements, and 3) the applicable affordability requirements for these residential units. The regulatory agreement or approval must expressly limit residency in the affordable residential units to persons with extremely low, very low, lower or moderate income persons as defined by the Health and Safety Code section 50052.5, 50053, 50199.4, or regulations adopted by the California Department of Housing and Community Development for a period of 45 years.
- Each residential unit (apartments, multifamily homes, etc.) for which a system is being installed has an individual electric utility meter. Applicants must provide documentation from the electric utility confirming service and meter number.
- Each residential unit for which a system is being installed is at least 15 percent more energy efficient than the current standards specified in Title 24 of the California Code of Regulations or has already taken or will take measures to reduce the unit's energy use by at least 15 percent as calculated pursuant to Title 24 compliance models (usually C2R model runs). When systems are installed to serve the energy needs of a project's common areas, the entire affordable housing project must be at least 15 percent more energy efficient than the current standards specified in Title 24 of the California Code of Regulations or must have already taken or will take measures to reduce the entire project's energy use by at least 15 percent as

calculated pursuant to Title 24 compliance models. Applicants must provide the energy efficiency calculations performed by an individual certified by the California Association of Building Energy Consultants (CABEC). For a list of Certified Energy Plans Examiners, visit the Energy Commission's website at: [www.energy.ca.gov/efficiency/cabec_roster.html].

Appendix 1 - Forms and Worksheets

CEC-1038 R1- Reservation Request Form (All technologies)

STD 204 - Payee Data Record

CEC-1038 R2 - Payment Claim Form

CEC-1038 R3 - Minimum Warranty Form

CEC-1038 R4 - Equipment Seller Information Form

CEC-1038 R5 - Reservation Payment Assignment Form

R1

RESERVATION APPLICATION FORM EMERGING RENEWABLES PROGRAM

- Modify Existing Record # _____
- Affordable Housing Project
- New Construction

1. Physical Site of System Installation

Street Address: _____

City: _____ State: _____ Zip: _____

2. Purchaser Name and Mailing Address

Phone: () _____ Fax: () _____

3. Equipment Seller (Must be registered)

Company: _____

City: _____ CEC ID (if known): _____

Phone: () _____ Fax: () _____

4. System Installation (Write "Owner" if not hiring contractor)

Company: _____

City: _____ License No.: _____

Phone: _____ Fax: _____

5. Electric Utility (Attach all pages of monthly statement)

PG&E SCE SDG&E BVE Service ID: _____

Billing Period: _____ KWh Used: _____

Note: If new construction attach building permit. Permit No. _____

8. Declaration

The undersigned parties declare under penalty of perjury that the information in this form and the supporting documentation submitted herewith is true and correct to the best of their knowledge and that the following is true:

- All system equipment is new and unused and has been purchased within the last 18 months,
- The generating system is intended primarily to offset Purchaser's electrical needs at the site of installation
- The Purchaser's intent is to operate the system at the above site of installation for its useful life or the duration of the lease agreement and
- The generating system will be interconnected with the distribution system of the electric utility identified above.

The undersigned parties further acknowledge that they are 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. The undersigned Purchaser authorizes the Energy Commission during the term of the ERP to exchange information on this form with the Purchaser's electric utility to verify compliance with the requirements of the ERP.

Submit complete application by fax at (916) 653-2543 or by mail to:

California Energy Commission
Emerging Renewables Program (MS-45)
1516 Ninth Street
Sacramento, CA 95814-5512

6. Equipment (Turbines, inverters, meters)

	Quantity	Manufacturer, Model (see CEC lists)
Generating Equipment		
Inverters, Meters		

Estimated annual energy production _____ kWh/Year

7. Rebate and Other Incentives

System Rated Output _____ watts

Total System Cost: \$ _____

Expected Rebate: \$ _____

Pay Rebate to: Purchaser Seller

Other Incentives: \$ _____

Source/Record No.: _____

Purchaser Signature

Print Name: _____

Signature: _____ Date: _____

Equipment Seller Signature

Print Name: _____

Signature: _____ Date: _____

Necessary Supporting Documentation.

- All pages of a monthly electric utility bill.
- Agreements to purchase and install equipment.
- Payee Data Record (Form STD-204) if payee identified has not previously been paid by the Energy Commission.
- If not a standard rebate application, attach other required documentation as specified in the ERP Guidebook.

INSTRUCTIONS FOR THE RESERVATION REQUEST FORM (CEC-1038 R1)

Title Box: Indicate if the request is to modify an existing reservation application, is for affordable housing, or new construction.

Section 1. Physical Site of System Installation

Provide the complete address for the site (parcel) of installation. Note that the site is the legal parcel of land on which the system is installed.

Section 2. Purchaser

Provide the purchaser name, company name if appropriate, and complete mailing address (as it would be written on a letter to be mailed). Enter the site address information even if it is the same as the site of installation address. Also enter the phone number and fax number of the purchaser.

Section 3. Equipment Seller Information

Provide the name of the equipment seller's company and city where located. If known also enter the CEC ID number for the seller available from the list of eligible equipment sellers [www.consumerenergycenter.org/erprebate] for most companies. Also enter the phone number and fax number. The equipment seller must register with the Energy Commission each year for the application to be considered. If not already registered provide a filled out Seller Registration Form (CEC-1038 R4) with the application. The seller must also sign and date the application form if the seller is the designated payee of the rebate. Enclose a copy of the purchase agreement with the application form.

Section 4. System Installation

Identify the name of the company hired to install the system or write in "owner install" (if a contractor is not hired and paid by the purchaser to install the system, the application will qualify for a 15% lower rebate). If installed by a licensed contractor, provide the contractor's license number, phone and fax number. All contractors must have an active "A", "B" or "C-10". A standard five year warranty form (Form CEC-1038 R3) must be submitted when payment is requested for systems installed by a contractor to qualify for the full rebate amount. Enclose a copy of the signed contract with the application form.

Section 5. Utility Bill

Identify the Purchaser's electric utility provider at the site where the system will be installed. Also identify from a monthly billing statement the service ID number, billing start and end period, and the energy usage in kWh for that monthly period. Provide all pages of the monthly billing statement with the application.

Section 6. System Equipment (Turbines, inverters, performance meters and other)

Provide the quantity, name of the manufacturer and exact model number for the eligible equipment as identified at [www.consumerenergycenter.org/erprebate]. Clearly identify the generating equipment such as wind turbines in the upper section. Also identify the inverters and system performance (kWh) meters (some inverters contain eligible performance meters). Eligible generating equipment, inverters and rating information is located on the Commission's website [www.consumerenergycenter.org/erprebate]. Calculate and include the system output by multiplying the inverter efficiency rating by the quantity and rating of the generating equipment used.

Section 7. Rebate and Other Incentive Information

Calculate and include the system output by multiplying the inverter efficiency rating, the quantity of generating equipment, and the generating equipment rating in watts.

$$\text{Quantity} \times \text{Equipment Rating} \times \text{Inverter Efficiency Rating} = \text{System Output (watts)}$$

If the sum of the inverter rated output is less than the system output (watts), the inverter rated output will be used to calculate the rebate. Where more than one type of inverter is used the average inverter efficiency will be weighted based on inverter rated capacity. The sum of the inverters' continuous rated output capacities will specify the maximum system output for determining the rebate.

Provide the system installed cost (before the ERP rebate). The ERP requires that incentives from other sources be accounted for before determining the rebate from the ERP. Five percent of any incentive received or expected from a utility incentive program, a State of California or federal government sponsored incentive program, other than tax credits, must be subtracted from the ERP rebate amount requested. The "Total Request" should therefore be based on the ERP rebate level in place at the time the application is received by the Commission and the system cost after subtracting other incentives.

Check the box indicating whether the incentive is to be paid to the purchaser or seller. If any, identify incentives expected or received from other sources. If an incentive from the ERP was received previously for this site, include the incentive amount and, if known, the reservation number, for the prior application.

Signatures:

The purchaser must always print and sign his or her name on the form. If the seller is designated as the payee, the seller must also sign his or her name on the form.

Submit your request by fax (916) 653-2543 or by mail to:

ERP, Reservation Request
California Energy Commission
1516 9th Street, MS-45
Sacramento, CA 95814-5512

PAYEE DATA RECORD

STD. 204 (Rev. 6-2003) (REVERSE)

1	<p><u>Requirement to Complete Payee Data Record, STD. 204</u></p> <p>A completed Payee Data Record, STD. 204, is required for payments to all non-governmental entities and will be kept on file at each State agency. Since each State agency with which you do business must have a separate STD. 204 on file, it is possible for a payee to receive this form from various State agencies.</p> <p>Payees who do not wish to complete the STD. 204 may elect to not do business with the State. If the payee does not complete the STD. 204 and the required payee data is not otherwise provided, payment may be reduced for federal backup withholding and nonresident State income tax withholding. Amounts reported on Information Returns (1099) are in accordance with the Internal Revenue Code and the California Revenue and Taxation Code.</p>								
2	<p>Enter the payee's legal business name. Sole proprietorships must also include the owner's full name. An individual must list his/her full name. The mailing address should be the address at which the payee chooses to receive correspondence. Do not enter payment address or lock box information here.</p>								
3	<p>Check the box that corresponds to the payee business type. Check only one box. Corporations must check the box that identifies the type of corporation. The State of California requires that all parties entering into business transactions that may lead to payment(s) from the State provide their Taxpayer Identification Number (TIN). The TIN is required by the California Revenue and Taxation Code Section 18646 to facilitate tax compliance enforcement activities and the preparation of Form 1099 and other information returns as required by the Internal Revenue Code Section 6109(a).</p> <p>The TIN for individuals and sole proprietorships is the Social Security Number (SSN). Only partnerships, estates, trusts, and corporations will enter their Federal Employer Identification Number (FEIN).</p>								
4	<p><u>Are you a California resident or nonresident?</u></p> <p>A corporation will be defined as a "resident" if it has a permanent place of business in California or is qualified through the Secretary of State to do business in California.</p> <p>A partnership is considered a resident partnership if it has a permanent place of business in California. An estate is a resident if the decedent was a California resident at time of death. A trust is a resident if at least one trustee is a California resident.</p> <p>For individuals and sole proprietors, the term "resident" includes every individual who is in California for other than a temporary or transitory purpose and any individual domiciled in California who is absent for a temporary or transitory purpose. Generally, an individual who comes to California for a purpose that will extend over a long or indefinite period will be considered a resident. However, an individual who comes to perform a particular contract of short duration will be considered a nonresident.</p> <p>Payments to all nonresidents may be subject to withholding. Nonresident payees performing services in California or receiving rent, lease, or royalty payments from property (real or personal) located in California will have 7% of their total payments withheld for State income taxes. However, no withholding is required if total payments to the payee are \$1,500 or less for the calendar year.</p> <p>For information on Nonresident Withholding, contact the Franchise Tax Board at the numbers listed below:</p> <table border="0"> <tr> <td>Withholding Services and Compliance Section:</td> <td>1-888-792-4900</td> <td>E-mail address:</td> <td>wscs.gen@ftb.ca.gov</td> </tr> <tr> <td>For hearing impaired with TDD, call:</td> <td>1-800-822-6268</td> <td>Website:</td> <td>www.ftb.ca.gov</td> </tr> </table>	Withholding Services and Compliance Section:	1-888-792-4900	E-mail address:	wscs.gen@ftb.ca.gov	For hearing impaired with TDD, call:	1-800-822-6268	Website:	www.ftb.ca.gov
Withholding Services and Compliance Section:	1-888-792-4900	E-mail address:	wscs.gen@ftb.ca.gov						
For hearing impaired with TDD, call:	1-800-822-6268	Website:	www.ftb.ca.gov						
5	<p>Provide the name, title, signature, and telephone number of the individual completing this form. Provide the date the form was completed.</p>								
6	<p>This section must be completed by the State agency requesting the STD. 204.</p>								
	<p><u>Privacy Statement</u></p> <p>Section 7(b) of the Privacy Act of 1974 (Public Law 93-579) requires that any federal, State, or local governmental agency, which requests an individual to disclose their social security account number, shall inform that individual whether that disclosure is mandatory or voluntary, by which statutory or other authority such number is solicited, and what uses will be made of it.</p> <p>It is mandatory to furnish the information requested. Federal law requires that payment for which the requested information is not provided is subject to federal backup withholding and State law imposes noncompliance penalties of up to \$20,000.</p> <p>You have the right to access records containing your personal information, such as your SSN. To exercise that right, please contact the business services unit or the accounts payable unit of the State agency(ies) with which you transact that business.</p> <p>All questions should be referred to the requesting State agency listed on the bottom front of this form.</p>								

R2

REBATE PAYMENT CLAIM FORM EMERGING RENEWABLES PROGRAM



Mail complete payment claim to:
California Energy Commission
ERP, Payment Claim
1516 Ninth Street (MS-45)
Sacramento, CA 95814-5512

Record Number _____

Payee Number _____

[CEC use only]

[CEC use only]

Total Eligible Cost: \$ _____ Date CFA: _____

SRO watts: _____ Rebate @ _____ = \$ _____

1. Confirmation of Reservation Amount

_____ has been granted a reservation of \$ _____ for a _____ kW renewable energy generating system. 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.

2. System Equipment (Wind Turbines, Inverters, kWh Meters)

Number	Manufacturer	Model
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Total System Price \$ _____
Amount paid by purchaser to date: \$ _____
Orientation: _____
Height: _____
Wind Class: _____

3. Modifications

Has any of the information in section 1 or 2 above changed? Yes No
If yes note the changes before claiming payment.

The undersigned parties declare under penalty of perjury that the information in this form and the supporting documentation submitted herewith is true and correct to the best of their knowledge. The parties further declare under penalty of perjury that the following statements are true and correct to the best of their knowledge:

- (1) The electrical generating system described above and in any attached documents meets the terms and conditions of the Energy Commission's Emerging Renewables Program and has been installed and is operating satisfactorily as of the date stated below.
- (2) The electrical generating system described above and in any attached documents is properly interconnected to the utility distribution grid and has or will be issued utility approval to operate the system as interconnected to the distribution grid.
- (3) The rated electrical output of the generating system, the physical location of the system, and the equipment identified were installed as stated above.
- (4) Except as noted above, there were no changes in the information regarding the seller, installer, purchaser, generating system specifications, installation location, or price from that information provided in the Reservation Request Form originally submitted by the undersigned.

The undersigned parties further acknowledge that they are 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. As specified in the ERP Guidebook, the undersigned Purchaser authorizes the Energy Commission during the term of the ERP to exchange purchaser information on this form with the Purchaser's electric utility in order to verify compliance with the ERP requirements. If a copy of the utility "letter of authorization to operate" the system is not submitted with this payment claim form, the undersigned Purchaser understands that he/she is obligated to submit a copy of this letter to the Energy Commission once it is received.

Purchaser	Seller	Is payment assigned to another party? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, attach the payment assignment form (CEC-1038 R5) with original signatures.
Print Name: _____	Print Name: _____	
Signature: _____	Signature: _____	
Date: _____	Date: _____	

IMPORTANT - Necessary Supporting Documentation

1. Final building permit and final inspection signoff;
2. Final invoice(s) confirming the total amount paid for the system equipment and installation;
3. Five-year warranty (CEC-1038 R3 form);
4. Utility letter of authorization to interconnect the system or the "Authorization to Receive Customer Information or Act on a Customers Behalf" form to access the Purchaser's utility data;
5. Utility bill or other proof of electrical service and consumption at the site of installation if not previously provided;
6. Payee Data Record (STD-204)

INSTRUCTIONS FOR THE REBATE PAYMENT CLAIM FORM (CEC-1038 R2)

The CEC-1038 R2 form is used to request payment for a completely installed and operational renewable energy system. The form specifies information about the renewable energy system that was to be installed at the time the reservation request was initiated. It also serves as a means of documenting what changes occurred from the time the reservation request was processed until the time the system was installed. The payment claim form must be submitted before the reservation expires.

Section 1. Confirmation of Reservation Amount

Self explanatory.

Section 2. System Equipment Installed

Fill in the equipment information requested including the number of units, the make, complete model number, and voltage (if applicable). Enter the total system price and the amount paid by purchaser to date. If the system is a wind system, identify the system's orientation, height, and site wind class.

Section 3. Modifications

Check the "yes" box if changes were made to the system and note any changes in the information from the previously submitted Reservation Request Form. If more space is required to note changes, additional pages may be added to the form. Changes in equipment from the original application may affect its eligibility and the amount of the rebate. If no changes were made, check the "no" box.

Signatures:

The purchaser must always print and sign their name on the form. If the seller is the rebate payee, the seller must also print and sign their name on the form. Enter the date of each signature. Original signatures are required on the form.

Please indicate whether the rebate payment is to be assigned to a third party. A third party is an entity other than the purchaser or seller. If yes, please fill in the name and address in the space provided and attach the original of the assignment form (CEC-1038 R5). The assignment form must contain original signatures. Payees that assign the rebate payment to a third party will still be reported as the recipient of the payment(s) for tax purposes.

Attachments:

Several attachments to the form must also be submitted before the claim will be processed. These include:

- A copy of the final building permit and final signoff
- A copy of the final invoices confirming the total amount paid for the system equipment and installation
- A copy of the completed and signed CEC-1038 R3 form (attach equipment warranty forms, if required)
- Letter of authorization from the utility to interconnect the system or purchaser's authorization to access utility data.
- A copy of the utility bill or other proof of electrical service and consumption at the site of installation if not previously provided.

Building Permit and Final Signoff:

The name and address on the building permit must match the installation address on the payment claim form.

Invoices:

The invoices must clearly identify the work that was done and the amount paid. This includes identifying the quantity, make and model numbers of major equipment installed and the labor charge for installation. To meet this requirement you may submit a copy of the final invoice(s) or a copy of the final contract(s) showing a zero balance or the amount paid by the purchaser. The invoice or contract should also indicate the extent to which the Commission's rebate lowered the cost of the system. Copies of bank statements, cancelled checks, or credit card statements may also be requested by Energy Commission staff. The final system price paid by the purchaser should match the price shown on any contract or invoice previously submitted. Any differences must be explained.

Warranty:

Complete and attach the CEC-1038 R3 form. See instructions on form for details.

Proof of Utility Interconnection:

Utility letter of authorization to interconnect the system or the "Authorization to Receive Customer Information or Act on a Customers Behalf" form to access Purchaser's utility data (Three year duration required). The address in document must match the address of the installed system.

Claiming a Rebate Without a Prior Reservation

To claim a rebate without a previously approved reservation, you must also submit a completed and signed Reservation Request Form (CEC-1038 R1).

Submit your request only by mail to:

ERP, Payment Claim
California Energy Commission
1516 9th Street, MS-45
Sacramento, CA 95814-5512

Allow at least 6 to 8 weeks from receipt of a complete payment claim application for payment. Payment will be mailed to the retailer or purchaser as indicated on the Reservation Request Form at the address indicated on the Payee Data Record form (STD-204), unless you have assigned payment to a third party.

R3**MINIMUM WARRANTY FORM
EMERGING RENEWABLES PROGRAM****System Information**

This warranty applies to the following _____ kW renewable energy electric generating system

Description: _____

Located at: _____

What is Covered

This five year warranty is subject to the terms below (check one of the boxes):

- All components of the generating system AND the system's installation.** Said warrantor shall bear the full cost of diagnosis, repair and replacement of any system or system component, at no cost to the customer. This warranty also covers the generating equipment against breakdown or degradation in electrical output of more than ten percent from the originally rated output (Manufacturers rating for wind turbines); or
- System's installation only.** Said warrantor shall bear the full cost of diagnosis, repair and replacement of any system or system component, exclusive of the manufacturer's coverage. (Copies of five-year warranty certificates for the major system components (i.e. wind turbines, etc. and inverter- MUST be provided with this form.)

General Terms

This warranty extends to the original purchaser and to any subsequent purchasers or owners at the same location during the warranty period. For the purpose of this warranty, the terms "purchaser," "subsequent owner," and "purchase" include a lessee, assignee of a lease, and a lease transaction. This warranty is effective from _____ (date of completion of the system installation).

Exclusions

This warranty does not apply to:

- Damage, malfunction, or degradation of electrical output caused by failure to properly operate or maintain the system in accordance with the printed instructions provided with the system.
- Damage, malfunction, or degradation of electrical output caused by any repair or replacement using a part or service not provided or authorized in writing by the warrantor.
- Damage malfunction, or degradation of electrical output resulting from purchaser or third party abuse, accident, alteration, improper use, negligence or vandalism, or from earthquake, fire, flood, or other acts of God.

Obtaining Warranty Service

Contact the following warrantor for service or instructions:

Name: _____

Phone: ()

Company: _____

Fax: ()

Address: _____

Signature: _____

Date: _____

R4**EQUIPMENT SELLER INFORMATION FORM
EMERGING RENEWABLES PROGRAM**

This information must be submitted before a company can become eligible to participate in the ERP. To remain eligible, a company must resubmit this form annually, by March 31. This annual submittal is required even if the information identified in the company's prior R4 submittal has not changed. In addition, a company must submit an updated R4 form any time its reported information has changed. The updated R4 form must be submitted to the Energy Commission within 30 days of the change of any reported information. Registered companies are listed at [www.consumerenergycenter.org/erprebate/database].

Business name:

Phone: ()

Address:

Fax : ()

Email:

Website:

Owner or principal, Title:

Select one of the following:

Business license number and jurisdiction:
 Corporate, LLC, LLP or other that is registered with the California Secretary of State (or appropriate state attached)
Reseller's license number:
 Not a corporation, LLC or LLP
Contractor license number (if applicable):

The above information applies solely to the business identified above:

Print Name: _____

Title: _____

Signature: _____


Date: _____

Send this completed form by telefax to (916) 653-2543 or by mail to:

ERP Seller Registration
California Energy Commission
1516 9th Street, MS-45
Sacramento, CA 95814-5512

Reminder:

This form must be on file with the Energy Commission for a rebate application with the above company to be considered. It must be resubmitted annually by March 31 for sellers to remain eligible from year to year.

<h1>R5</h1>	RESERVATION PAYMENT ASSIGNMENT FORM EMERGING RENEWABLES PROGRAM
 <small>RENEWABLE ENERGY PROGRAM</small> <small>CALIFORNIA ENERGY COMMISSION</small>	Record Number _____ Payee ID Number _____
<p>Reservation Information</p> Payee Name: _____ Payee Address: _____ _____ Payee Contact: _____ Payee Phone #: _____	
<p>Assignment Request</p> <p>I, _____, the designated payee or authorized representative of the payee, hereby assign the right to receive payment for the above noted reservation under the Emerging Renewables Program to the following individual or entity:</p> Name: _____ Address: _____ _____ Phone #: _____	
<p>I request that payment be forwarded to this individual or entity at the address noted. Upon request proof of payment will be forwarded to me.</p>	
<p>Acknowledgement</p> <p>As the designated payee or authorized representative, I understand that I remain responsible for complying with the requirements of the Emerging Renewables Program and will remain liable for any tax consequences associated with the reservation payment, despite the payment's assignment. I further understand that I may revoke this payment assignment at any time prior to the Energy Commission's processing of the payment by providing written notice to the Energy Commission's Renewable Energy Office. Such notice shall be provided to: Emerging Renewables Program, California Energy Commission, 1516 9th Street, MS-45, Sacramento, CA 95814-5512.</p>	
Executed on: _____	Signature: _____ Name: _____ Title: _____

This completed form may be submitted with either the Reservation Request Form (CEC-1038 R1) or the Payment Claim Form (CEC-1038 R2) for standard rebates. This form may not be submitted by telefax, as original signatures are needed to process assignment requests.

Appendix 2 - Tips for Consumers

This Appendix provides some basic guidelines for those who are not familiar with renewable energy systems and may be interested in learning more. The Energy Commission has a variety of sources of additional information about choosing a renewable energy system, finding retailers or estimating a system's energy output. This information can be obtained by visiting the Energy Commission's Web site at [www.consumerenergycenter.org].

A. Choosing a Contractor

Make sure you hire a contractor licensed by the Contractors State License Board. State law specifies that any job that costs \$500 or more (labor and materials) requires the services of a licensed contractor. As with any large purchase decision, the Energy Commission recommends that you obtain at least 2 or 3 bids before selecting an installer or agreeing to purchase a renewable energy system. Your final selection should be based on various factors including company reputation, warranty service, and installed system price. The Contractors State License Board [www.cslb.ca.gov] provides helpful consumer information, has a process to address complaints against contractors, and maintains information about the status of contractor licenses. The Energy Commission recommends that you check the status of the installer's contractor license for your own protection.

B. Choosing a Retailer

The Energy Commission maintains a list of renewable energy system retailers to make it easier to find products in your area. The list is available on the Energy Commission's web page at: [www.consumerenergycenter.org/erprebate/database/index.html].

C. How Much Energy Does a System Produce?

The annual amount of energy from an eligible renewable energy system can be estimated and in most cases can be guaranteed by the system retailer or installer. The annual amount of wind energy at a given location can be estimated, but is somewhat difficult to predict accurately without sufficient site wind speed data. It is important to note that wind turbines are rated at a wind speed of 28 miles per hour and some wind turbines do not produce any energy until the wind speed exceeds 12 miles per hour.

Battery backup systems are an option when purchasing renewable energy system and have the advantage of providing power during a utility outage. However, adding battery back-up significantly increases the cost of the generating system, requires additional

maintenance, and reduces the useful energy output of the system by about ten to twenty percent (10-20%) compared to a similar system without batteries.

Be sure to compare the energy output that contractors prepare before choosing a contractor. The energy output from a system is a much better indicator of the system performance than is the systems rated output. Also, be sure to verify that your installed system has an easy to read meter installed that measures the energy produced in kilowatt hours. A meter is required by the ERP so that you will be able to determine if your system is operating properly. The utility meter only provides the net energy used at your home but does not tell you how much energy your system produces.

You may wish to consider purchasing a pre-designed packaged system to reduce the chance of safety or performance problems with mismatched equipment. Of course, all systems are not the same and may not suit your particular situation. Also, be sure that your system warranty clearly identifies the responsible party for repairing your system in the event of a malfunction or break down. Although you may be able to obtain lower prices by purchasing system components and equipment separately, keep in mind that the money you save may be more than offset by increased installation costs and lower energy output because of mismatched equipment. This, in turn, could affect your warranty coverage.

System prices vary depending on the technology, equipment type, local labor rates, site conditions, and other factors. The following table lists a range of system prices and annual energy production that are typical for wind energy system installations.

Table 2 - Typical Wind Energy System Prices and Energy Production

Technology Type	Typical Energy Production (kWh/year)	Typical Installed System Prices¹
Wind Energy Systems ²		
3 kW	4,990 to 8,500	\$12,000-18,000
10 kW	8,400 to 16,440	\$30,000-50,000

1. Price examples are for 2002. The incentives will decrease to promote similar reduction in price.
2. Wind calculations based on manufacturer's predicted monthly energy production for a site with average wind speeds of 11 mph and 14 mph.

Appendix 3 - Criteria for Listing Components as Eligible

This Appendix summarizes the criteria used for listing which components can be used to create a renewable energy system that is eligible for a rebate from the Emerging Renewables Program.

The equipment must meet national or internationally recognized electrical standards or other appropriate criteria. Until the equipment is listed it is not eligible and no funding will be reserved or paid. Equipment that has not met the aforementioned requirements will not be placed on the lists.

If a component becomes decertified according to the testing requirements described below, and is removed from the Energy Commission's lists of eligible components before a reservation is granted, applicants may be required to modify their systems by replacing the decertified component with a certified component before a payment is issued.

Generating equipment (e.g. wind turbines), inverters, and performance meters are periodically added and removed from the lists of eligible equipment.

A. Small Wind

There are two options to achieve ERP eligibility for small wind systems:

1. Small wind turbines must be certified as meeting the requirements of a small wind turbine-specific safety and/or performance standard adopted by a national or international standards setting body, including, but not limited to IEC (International Electrical Code) 61400-2. The Energy Commission will monitor, review, and may participate in the Interstate Renewable Energy Council's efforts to create a national certification program.

OR

2. Manufacturers of small wind systems must provide monthly data of average energy produced (kWh) and average wind speed for one consecutive year for each model of system they wish to be considered eligible for this program to demonstrate reliable operation of that model of equipment at a site with average annual wind speeds of at least 12 mph.

B. Fuel Cells

All fuel cells must be certified as meeting the requirements of ANSI/CSA America FC 1-2004 for fuel cell power plants.

C. Inverters

All inverters must be certified as meeting the requirements of UL 1741. In addition, for each model of inverter further testing is required to be done by a qualified Nationally Recognized Test Laboratory¹³ to remain eligible for this program. Beginning April 1, 2005, only inverters that have completed the testing will be listed as eligible equipment. Inverter ratings for each model will be determined according to sections of the test protocol entitled, *Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems*, prepared by Sandia National Laboratories, Endecon Engineering, BEW Engineering, and Institute for Sustainable Technology, October 14, 2004 version¹⁴ and the “Guidelines for the use of the Performance Test Protocol for Evaluating Inverters Used in Grid-Connected Photovoltaic Systems.” This version of the test protocol and guidelines are available on the Energy Commission website at [www.consumerenergycenter.org/erprebate/equipment.html]. The tests must be performed in accordance with sections 3, 4, 5.1 and 5.2 of the test protocol, as further clarified in the guidelines. The following tests are required:

- **Maximum Continuous Output Power.** Section 5.4 shall be performed in its entirety for test condition A of Table 5-2 with the following exceptions: 1) the test shall be performed at an ambient temperature of 40 °C, rather than 45 °C, and 2) the dc Vnom may be selected by the manufacturer at any point between Vmin +0.25*(Vmax-Vmin) and Vmin+0.75*(Vmax-Vmin). It is not necessary to perform Section 5.4 for test conditions B through E of Table 5-2.
- **Conversion Efficiency.** Section 5.5 shall be performed for test conditions A, B and C of Table 5.3, subject to the following: 1) the tests shall be performed with dc Vnom equaling the same voltage as selected above for the Maximum Continuous Power Output test, 2) steps 1 through 8 of the test procedure (Section 5.5.1) shall be performed at 25 °C, and not at 45 °C, and 3) to reduce time for each test condition, begin at the highest power level and go to the lower power levels. If done in this

¹³ Nationally Recognized Testing Laboratories shall be those laboratories that have been recognized by the U.S. Department of Labor, Occupational Safety & Health Administration (OSHA), in accordance with Title 29 of the Code of Federal Regulations, section 1910.7, and are approved to conduct test UL 1741 under the scope of their OSHA recognition. A list of all current Nationally Recognized Testing Laboratories is available on OSHA’s web page at [www.osha.gov/dts/otpca/nrtl/index.html]. Please note, not all of the Nationally Recognized Testing Laboratories identified on OSHA’s list are approved to conduct test UL 1741.

¹⁴ This version of the test protocol is identified by the file name “InvertrTestProto_041014.doc” as shown in the left-hand side of the footer on each page of the protocol.

order it will only be necessary to wait for temperature stabilization at the 100 percent power level. In addition, the unit only needs to be operated at full output power for one hour, rather than 2.5 hours, and no preheating is necessary if the Conversion Efficiency test is performed within 1 hour of full operation under test 5.4, provided the unit has not been exposed to ambient temperature of less than 22 °C.

- **Tare Losses.** Section 5.7.1 shall be performed in its entirety. It is not necessary to perform the tests under Section 5.7.2 or Section 5.7.3.

Please note that the tests for Power Foldback (Section 5.8) and Inverter Performance Factor/Inverter Yield (Section 5.9) are NOT required.

The data and reports resulting from the tests for Maximum Continuous Output Power (Section 5.4), Conversion Efficiency (Section 5.5) and Tare Losses (Section 5.7.1) must be provided to the Energy Commission and will be made public. The inverter tested must utilize the same hardware and software configuration evaluated during the UL 1741 certification test.

The methodology for rating inverters on the Energy Commission list is based on the weighted inverter efficiency measured at various load points. Weighting inverter efficiency will be determined with the following weighting factors:

DC Input Power Level	Weighting Factor
10%	0.04
20%	0.05
30%	0.12
50%	0.21
75%	0.53
100%	0.05

The Energy Commission also plans to consider if changes should include adjusting the ratings for inverters with battery-backup to account for losses inherent in battery back-up systems or for wind specific applications.

D. Metering Criteria

Meters must retain the kilowatt-hour production data in the event of a power outage and must be easy to read for the customer's benefit. The meter must measure the total energy produced by the system in kilowatt-hours (or watt hours) and have a manufacturer's uncertainty specification of plus or minus five percent.

E. Other Technologies

New technologies may be added by petitioning the Energy Commission, through the appropriate Committee. Applicants must submit the proper documentation satisfying all of the following criteria:

- 1) Financial assistance is required for these technologies to become commercially viable.
- 2) The technology must be commercially available with at least one vendor available for the sale of the system.
- 3) Vendors of any generating systems employing the technology must offer at least a five-year full warranty on the entire generating system.
- 4) The technology must show at least one year of demonstrated reliable, predictable, and safe performance by a full-scale facility using this technology under field conditions.
- 5) The available data must show that generating systems using the technology have a useful design life of at least 20 years.
- 6) The technology must be designed so that it can produce grid-connected electricity.
- 7) The technology represents a new electricity generating process not well represented among existing grid-connected renewable generating facilities, rather than some evolutionary or incremental improvements to renewable technologies used in existing renewable resource technology generating facilities (examples of such evolutionary or incremental improvements will be: a) an improved blade design for wind turbines, b) less expensive well drilling techniques for geothermal, or c) a more efficient burner design for a biomass plant).
- 8) The project must be designed exclusively for the purpose of producing electricity for on-site use or sale (excluding demonstration projects that may sell to one specific customer), in contrast to a research or demonstration facility, which is designed primarily for collecting additional research data.

Appendix 4 - Maximum System Size Calculations

This Appendix describes the method used to determine the maximum system size eligible for incentives from the program. Because the average annual residential electricity consumption in California is about 7000 kWh/yr system, 5 kW and under are exempt from the maximum size limitation.

In cases where the proposed system size is greater than 5 kW, the system must be sized that the expected production of the system is no greater than 100 percent of the building's on-site estimated annual electricity consumption. The customer may submit either a recent utility bill, the estimated annual electricity consumption of the building based on a detailed energy use calculation signed by a professional energy rater or a letter from a qualified architect, engineer, or electrical contractor (C-10 licensed) detailing expected energy consumption. In cases where the expected electricity production is greater than 100 percent of the estimated annual consumption, the rebate reserved will be reduced by an amount equal to the ratio between the estimated annual consumption and the expected system production.

If the Energy Commission calculates a reduced rebate amount, the applicant may submit subsequent utility bills within the following three months to receive their full reservation amount, provided there are sufficient program funds available at that time to make an additional payment.

Appendix 5 - Atypical Incentive Applications

A. New Construction (Building Permit)

For sites that currently do not have electrical service, a copy of the building permit for the new home or major site improvement must be included with the reservation application (not remodeling projects). All approved applications for new construction will receive 18 month reservations.

B. Systems Installed by Sellers or Contractors for Their Own Personal or Business Use

Renewable energy system sellers (e.g., retailers, wholesalers, manufacturers) or contractors who arrange to have a system installed by a separate company on their own home or place of business may qualify for the full rebate. To receive a reservation, the applicant must submit documentation consistent with that of an individual independently buying a system. When an equipment seller purchases equipment for the seller's own use, the purchase agreement (or proof of purchase) must be between the purchaser and the generating equipment supplier, in most cases the wholesaler.

The supplier must be identified as the seller on the application form and must be registered with the Energy Commission. If the labor installation is done by a contractor on his own home or place of business, the application will be treated as an owner installed system unless the contractor hires an independent company to do the system installation and is able to document payments to the independent company. The purchase and installation agreements must be between two independent entities. Documentation of a purchase between two principals or owners within the same entity or between spouses is not acceptable, nor is a purchase agreement if signed by the same individual.

C. Adding to Existing Systems

Additions to existing systems will only be allowed for systems that met past program requirements and were partially funded by participating in the Energy Commission's program. For these projects, the Energy Commission has the records and documentation identifying the equipment that was installed previously, the program warranty, and system equipment standards and warranties that were met by the originally installed equipment. The newly added generating equipment must be selected from the current lists of eligible equipment and meet the current guidebook requirements. All of the current program eligibility criteria and documentation requirements apply to the added equipment.

The rebate calculation will be based on the incremental rated capacity of the added equipment. Under no circumstances will the rebate for the added equipment exceed the current rebate for the incremental watts added.

Because the rebate for wind decreases with the system size, the incremental calculation will be based on the incremental system size above the pre-existing system.

Sample Calculation – Incremental Calculation for Wind Systems

Existing System paid \$12,500 @ 2.50 per watt (5,000 watts)
Adding 6000W for total of 11,000 watts (no inverter capacity limitation)
Current rebate level is \$2.50/W for first 7.5 kW and \$1.50 per watt for increments above 7.5kW

The rebate available for the new addition is:
 $2,500 \text{ W} \times \$2.50/\text{watt} + 3,500 \times \$1.50/\text{watt}$ (for contractor installation) = \$11,500

D. Special Requirements for Leased Systems

To ensure that leased systems are not prematurely removed from the site of installation, leased systems must remain at the original site of installation for a period not less than five years. The lease agreement must specify a lease term of no less than five years and must limit the lessor's remedies in the event of breach to monetary damages. The lease agreement may not permit the lessor to remove the system from the original site of installation because of the lessee's default or breach of the lease agreement. In addition, the lease agreement must clearly demonstrate that the program rebate or incentive benefits the lessee by directly and exclusively reducing the lease payments for the eligible system.

In determining the total cost of leased systems, the Energy Commission will not consider any finance, interest, insurance, maintenance costs, or any lease processing fees. The rebate or incentives for leased systems will be paid to the retailer of the system or to the lessor as the system purchaser. The rebate will not be paid to the lessee.

The proof of agreement to lease must contain two sections. It must contain the proof of agreement by the lessor to purchase the system from the seller as described above. It must also contain the lease agreement between lessor and lessee and identify the physical address of the system, the quantity, make, and model of major system components, the lease term or duration, terms of payment, the total cost of the lease itemized so as to identify the capital cost and any financing, interest, insurance or maintenance cost and any fees, the total amount to be paid by the lessee over the term of the lease, indication that the rebate benefits the lessee by directly and exclusively

reducing the lease payments for the eligible system, and the signatures of both the lessor and lessee.

E. Time Extension Requests

Time extensions to a reservation are not available under any circumstances. Applicants failing to install their systems and submit a complete reservation payment claim within the reservation period must reapply for funding at the rebate level and under the terms and conditions applicable at the time of reapplication.