# GRANT APPLICATION MANUAL

# ENERGY INNOVATIONS SMALL GRANT PROGRAM

**March 2001**

**PIER**

Public Interest Energy Research

CALIFORNIA ENERGY COMMISSION

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# LIST OF ATTACHMENTS

Mail completed grant applications to the address below.
Commission and EISG Program Administrator staff welcome your comments
and suggestions for improving this manual at any time.  Please contact us if
you have any questions or comments about these materials.

**EISG Program Administrator**
**San Diego State University Foundation**
**5250 Campanile Drive, MC1934 (3rd Floor)**
**San Diego, CA 92182-1934**

| | |
|---|---|
| **Phone:** | **(619) 594-1049** |
| **Fax:** | **(619) 594-0996** |
| **Email:** | **eisgp@energy.state.ca.us** |

**Note:**  Proposals should not be mailed or delivered to the Energy Commission offices in Sacramento, California.

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### Applicant Notification List

We recommend that all individuals or organizations that intend to submit a proposal against the current solicitation register their contact information with the EISG Program Administrator in order to receive notification of any late changes to the application process.  Primary means of notification will be by email unless no email address is provided.  To be placed on the Applicant Notification List please transmit your request with your name, email address and phone number by email (eisgp@energy.state.ca.us), fax (619-594-0996) or US Mail.  Contact information will only be retained for the current solicitation and must be renewed for each solicitation you intend to apply.  Applicants that do not register risk having their proposal rejected at initial screening for failure to comply with new requirements communicated through the Applicant Notification List.

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### Solicitation Notification List

Individuals and organizations that desire to receive a notification of all future EISG solicitations may register their contact information with the EISG Program Administrator.  Primary means of notification will be by email unless no email address is provided.  To be placed on the Solicitation Notification List please provide the following information:
- Organization Name (if applicable)
- Name (primary point of contact)
- Address
- Email Address and Phone Number

Transmit your request to the Program Administrator via email (eisgp@energy.state.ca.us), fax (619-594-0996) or US Mail.

The California Energy Commission, through its program administrator, is offering grant funding to projects **that determine the feasibility of energy research and development concepts relating to the Public Interest Energy Research (PIER) Program.** This manual provides the information needed to establish applicant eligibility and to complete the application package. In addition, this manual describes key program features related to proposal evaluation, approval, grant contracting, as well as assistance available to applicants during the application process and to grantees during the performance of grant projects.

This manual is revised periodically to address changes to the grant application process. Applicants must use the current version of the Grant Application Manual that is posted with the EISG solicitation on the EISG Solicitation web page (www.energy.ca.gov/contracts/smallgrant) where it is available for viewing and downloading in both PDF and Word 7.0 format. A paper copy of this manual is available upon request to the EISG Program Administrator. Requests may be submitted via email, fax or US mail (see page ii for contact information).

Part 1 answers the commonly asked questions about the program; Part 2 contains additional information regarding program features and requirements; Part 3 includes the application forms, and instructions for applying for grant funding; and Part 4 contains information pertinent to the Grant Agreement.


## Part 1.  COMMONLY ASKED QUESTIONS ABOUT THE ENERGY INNOVATIONS SMALL GRANT (EISG) PROGRAM

This part answers commonly asked questions about the Energy Innovations Small Grant Program to help you determine whether or not to apply for funding.

### *What is the difference between the Energy Innovations Small Grant (EISG) Program and the Public Interest Energy Research (PIER) Program?*

The EISG Program is a component of the Public Interest Energy Research (PIER) Program that is managed by the California Energy Commission (Commission). The purpose of the PIER Program is to provide benefit to California electric ratepayers by funding energy research, development and demonstration (RD&D) projects that are not adequately provided for by competitive and regulated energy markets. Approximately $62 million per year is collected from electricity ratepayers for the PIER Program.

The Commission recognizes the need for a program to support the early development of promising new energy technology concepts, a niche not covered by PIER general solicitations that focus primarily on development of established concepts. The Commission established the EISG program to meet this need. In addition, to encourage participation in the program, the process for soliciting, evaluating and awarding grants has been simplified and streamlined.

### *Who can apply for grants?*

Participation in the EISG program is restricted to the following groups:

1. **Individuals:** Must be acting independently. If employed or affiliated with an organization, applicant has authority from the organization to pursue project development exclusively as an individual with no rights reserved to the organization. The individual, not the organization, retains all intellectual property rights accrued from the grant project.

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2. **Small businesses:** EISG Program uses the Federal definition of small as specified in Title 13, Code of Federal Regulations, Part 121 (13 CFR § 121), Small Business Size Regulations (http://www.sba.gov/regulations/siccodes/). Size requirement varies based on type of business with the average requirement being either prior year gross receipts of $5 million or total employees cannot exceed 500.

3. **Non-profit organizations:** Possess IRS tax exemption. Non-profit organizations that are already under contract to the Energy Commission to perform PIER related work outside of the EISG Program are prohibited from applying to the EISG Program.

4. **Academic institutions:** Public or private postsecondary institution.

Federal agencies, federal laboratories or Federally Funded Research and Development Centers (FFRDCs) are not eligible.

The Energy Commission reserves the right to limit participation in a particular solicitation to one or more of the four applicant groups and/or to limit the subject area to one or more of the six PIER program areas in order to meet overall program objectives. If a solicitation is restricted by applicant type or subject area it will be clearly identified in the solicitation notice published on the EISG Solicitation web page (www.energy.ca.gov/contracts/smallgrant/index.html).

## *How much funding is available for each grant and the program?*

The maximum amount of any individual grant award will be $75,000, including required research facilities or technical expertise assistance. Approximately $2.0 million per year of PIER funds are allocated to EISG grants.

## *Are matching funds and repayment of the grant required?*

There are no matching funds or repayment requirements associated with the EISG Program.

## *What projects are eligible for funding?*

Proposals must meet **all** of the following criteria to be eligible for consideration under the EISG program: (a) propose an original innovative solution to a significant energy problem; (b) propose work that is still in the proof-of-concept phase; (c) address a California market need; (d) provide a clear potential benefit to California electricity ratepayers and (e) target one of the six PIER program areas listed below.
1. Industrial/Agriculture/Water End-use Efficiency
2. Building End-use Efficiency
3. Environmentally Preferred Advanced Generation
4. Renewable Generation
5. Energy-Related Environmental Research
6. Strategic Energy Research

A detailed description of the program areas, issues of interest, and research targets can be found on the Commission web site at www.energy.ca.gov/research/documents under the section titled "Draft Documents for PIER". While the documents are still in draft form, they are being used to define the acceptable subject areas provided the proposed work does not include any of the ineligible activities listed in the next section. Please note that citing a reference in the PIER Research Plans is not sufficient evidence by itself of a market need for a specific energy concept.

## What projects are not eligible for funding?

The following types of research and activities are not eligible for EISG funding:
1. Advanced development of concepts already proven feasible
2. Full scale demonstrations when subscale or bench testing would be more appropriate
3. Transportation related energy projects
4. Planning and policy studies
5. Data gathering and reporting activities
6. Marketing and promotion activities
7. Literature surveys
8. Market or technology assessments/surveys
9. Product commercialization or certifications (e.g., UL Listing)
10. Pure science research with no clear relevance to PIER and no clear market connection
11. Meta-analysis studies
12. Electric distribution or transmission research normally funded by the electric utilities.
13. Gas research with little or no connection to electric generation/end use (innovations capable of shifting significant peak electric load to natural gas will be considered)
14. Research that does not propose a clear solution to an existing energy problem
15. Research that seeks to identify a new energy problem or further define an existing energy problem with no focus on proving feasibility of a specific solution
16. Software development with no research or validation component

Applicants that are in doubt about the suitability of a particular subject area or type of research are encouraged to submit an informal 1-2 page pre-proposal abstract to the EISG Program Administrator for evaluation prior to submitting a full application. See Part 2. A. for additional details.

## How and when can I apply and how are grant applications processed?

Proposals will be accepted by the EISG Program Administrator any time an active EISG Solicitation Notice is posted on the program's solicitation web page. Grant applications received by the Program Administrator before 5 PM on the cutoff date will proceed to initial screening as shown in Diagram 1. Please review the grant application process and proposal evaluation criteria contained in Part 2.B. when preparing applications. Multiple projects cannot be proposed in a single application but more than one application can be submitted against a solicitation. Applicants must use the forms provided in this manual and assemble the package as specified in Part 3.A.

## How can I obtain technical assistance with a project?

Applicants may request assistance from the Program Administrator in locating laboratory facilities or technical experts that would serve as team members or subcontractors on the project. The Program Administrator may provide recommendations but it is the responsibility of the applicant to negotiate the financial arrangement with the individuals/business or laboratory facilities and to reflect that cost in the proposed project budget. It is recommended that all key arrangements with team members, contractors and facilities be made prior to submitting a proposal for evaluation since that will accelerate the award process if selected for funding. However, applicants that need assistance in locating technical experts, subcontractors or laboratory facilities may submit a proposal in which those elements are left unidentified with appropriate funds allocated to the missing elements in the budget. If the proposal passes initial screening and it is determined that the missing elements are such that an adequate technical evaluation could still be performed, the Program Administrator will send the proposal out for technical review. If the proposal is eventually recommended for funding the award will be delayed until the missing elements are identified and negotiated and all revisions submitted and approved by the Program Administrator.

## How long does it take to receive project funding?

It takes approximately five to six months after the cutoff date to complete the proposal evaluation, approval and agreement execution process. Grant agreements may be in place with Awardees within four weeks of the Commission final approval of project funding if no delays are encountered. Project research may begin as soon as the grant agreement is fully executed by the Program Administrator.

## How long do I have to complete a project?

The period of performance on a grant project is negotiable but may not exceed 12 months unless the nature of the research clearly requires additional time in which case applicants may request up to 18 months. All deliverables, including the Final Report, must be received during the stated term of the grant agreement.

## Who do I contact for more information?

If you have any questions regarding the EISG Program, please contact the EISG Program Administrator:

**EISG Program Administrator**
**San Diego State University Foundation**
5250 Campanile Drive, MC 1934
San Diego, CA 92182-1934
Phone:    (619) 594-1049
Fax:    (619) 594-0996
Email:    eisgp@energy.state.ca.us

In addition, questions addressed to the EISG Program Administrator that have broad applicability to applicants will be posted. Please look at the "Frequently Asked Questions" section in the EISG Program area of the Commission web site located at www.energy.ca.gov/research/innovations. Please review this section periodically for updates.

## Part 2.    ADDITIONAL INFORMATION REGARDING PROGRAM FEATURES AND REQUIREMENTS

### A. Pre-proposal Abstract

Applicants may email, fax or send through regular mail a pre-proposal abstract (no specified length or format - typically 1-3 pages) to the EISG Program Administrator for an evaluation of the project's subject area and research objectives to determine if it is suitable for the EISG Program. The preferred method of transmission is by email as an attached file (Word, WordPerfect, PDF, HTML, ASCII) or embedded in the body of the email. Assistance provided to the applicant as part of this pre-proposal process serves two purposes: (1) to help the applicant avoid the effort of preparing a full application on a topic that would fail initial screening; and (2) to provide suggestions that would strengthen the proposal in the technical evaluation process. The benefits of number 1 can be achieved with a fairly short abstract whereas the benefits of number 2 increase directly in proportion to the number of project details provided. Assistance and advice provided during this process is no guarantee that the proposal will be funded. Funding decisions are based only on the review of complete final proposals, not on pre-proposal abstracts. Pre-proposals may be submitted at any time up to four weeks prior to the proposal cutoff date for the cycle in

which you intend to submit an application.  All pre-proposals received will be reviewed in the order received and will receive a response usually within one week but no later than two weeks prior to the proposal cutoff date.  Primary method of response to a pre-proposal abstract is by email.

## B.  Grant Application Processing

Grant applications will be processed in the following phases (as outlined in Diagram 1):

**Diagram 1: Grant Project Selection Process**
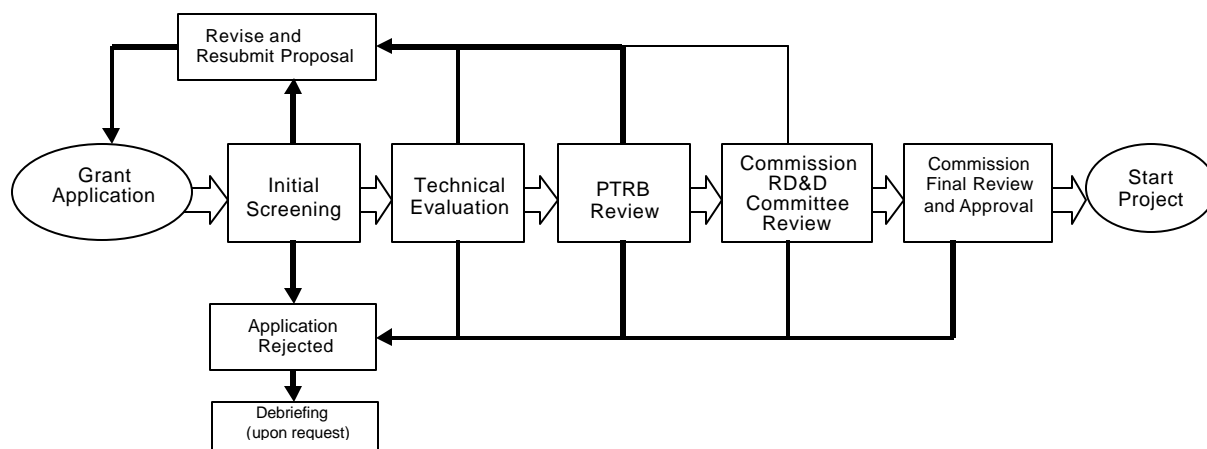


1.  <u>Grant Application.</u>

Grant applications received by the EISG Program Administrator before 5 PM on the published cutoff date will enter the screening/evaluation process.

2.  <u>Initial Screening.</u>

EISG Program Administrator staff will perform an administrative pass/fail review based on the criteria listed in Table 1 below.

**Table 1:  INITIAL SCREENING CRITERIA**

| CRITERIA | SCORE |
|---|---|
| 1.  Proposed research targets one or more of the six PIER program areas | PASS / FAIL |
| 2.  Proposed research clearly identifies potential benefit to California grid-connected electric consumers | PASS / FAIL |
| 3.  Proposal provides sufficient information to assess technical merit and the potential impact the proposed innovation would have on the targeted energy problem | PASS / FAIL |
| 4.  Does not propose research or activities listed as ineligible in Part 1 of this manual | PASS / FAIL |
| 5.  Originality of proposed research is supported by comparison to the current state of the art to include: existing products, processes, services and prior research findings | PASS / FAIL |
| 6.  Proposes research that does not violate the known laws of science | PASS / FAIL |
| 7.  Proposed research is designed to explicitly prove concept feasibility | PASS / FAIL |
| 8.  Proposed research is not adequately covered by competitive markets | PASS / FAIL |
| 9.  Certifications satisfy financial, legal and other requirements | PASS / FAIL |
| 10. Resubmitted proposals adequately address deficiencies noted in prior evaluation | PASS / FAIL |
| 11. Application package is complete (all required forms are completed correctly) | PASS / FAIL |

Applications are placed in one of the following four categories after the initial screening:

- Satisfies criteria and proceeds to Technical Evaluation.
- Satisfies criteria pending receipt of minor clarifications or missing data requested from the applicant by the EISG Program Administrator (if clarifications are received in timely manner, the proposal will proceed to technical review).
- Fails criteria, eligible for resubmission in a future cycle if revised to address noted deficiencies (notification letter will include the deficiencies identified).
- Fails criteria, not eligible for resubmission for reasons that cannot be corrected by revision (notification letter will include the deficiencies identified).

3.  Technical Review (TR).

Technical reviewers may be from academia, industry or government.  The applicant may recommend qualified technical reviewers that are independent from the project team and who are capable of conducting an unbiased evaluation.  Recommendations are advisory in nature with final reviewer selection resting with the EISG Program Administrator.

Applications that pass the initial screening and are deemed complete will be scored by two or more technical reviewers with recognized expertise in the proposed subject area.  The technical review will focus primarily on the proposal's technical merit.  Technical reviewers will score each proposal on the degree to which it meets each of the criteria listed in items 1-9 in Table 2.  Scores from multiple technical reviewers will be combined to form a single composite score with a maximum of 50 points.  Proposals that receive a composite score of 25 or less from the technical reviewers will not be eligible for funding in the current cycle.

**Table 2: TECHNICAL REVIEWER (TR) SCORING CRITERIA AND ALLOCATED POINTS**

| CRITERIA | TR |
|---|---|
| 1.  Does the proposed research target an important energy problem? | 3 |
| 2.  Will the proposed innovation significantly impact the targeted energy problem? | 4 |
| 3.  Is the scientific approach sound and sufficient to determine concept feasibility? | 3 |
| 4.  Is the proposed research original and innovative and adequately supported by comparison to the current state of the art to include: existing products, processes, services and prior research findings? | 3 |
| 5.  Is the proposed concept practical? | 3 |
| 6.  Are the project team members qualified to perform the proposed work? | 3 |
| 7.  Are the amount and use of funds requested appropriate for the work proposed? | 3 |
| 8.  Does a viable market connection exist for the proposed innovation? | 3 |
| 9.  Overall technical merit (taking all factors into consideration) | 25 |
| **Maximum Technical Reviewer Points:** | **50** |

4.  Program Administrator (PA) Evaluation.

Following the technical review, the Program Administrator (PA) will score all the proposals that received a TR composite score of 26-50.  The PA is allocated a maximum of 20 points based on the criteria shown in Table 3.  The PA will consider all available information when scoring.  The PA's score will be added to the TR composite score to create a new composite score (max. 70 points).  The new composite score will be used to establish the proposal's preliminary rank order that is presented to the PTRB.

5. Program and Technical Review Board (PTRB)

Approximately 12 weeks after the proposal cutoff date and following the PA scoring, the PTRB meets to score all the proposals that received a TR composite score of 26-50. The PTRB is allocated a maximum of 30 points based on the criteria shown in Table 3.

The PTRB is also tasked with reviewing the EISG Program policies, procedures and documents and making recommendations for changes to the Energy Commission's RD&D Committee.

**Table 3: PA AND PTRB SCORING CRITERIA AND ALLOCATED POINTS**

| CRITERIA | PA | PTRB |
|---|---|---|
| **Technical Merit Criteria** | **5** | **5** |
| 1.  Is the scientific approach sound and sufficient to determine concept feasibility? | | |
| 2.  Is the proposed research original and innovative and adequately supported by comparison to the current state of the art to include: existing products, processes, services and prior research findings? | | |
| 3.  Is the proposed concept practical? | | |
| 4.  Are the amount and use of funds requested appropriate for the work proposed? | | |
| 5.  Are the project team members qualified to perform the proposed work? | | |
| **Programmatic / Policy Criteria** | **5** | **5** |
| 1.  Does the proposed research target an important energy problem? | | |
| 2.  Will the proposed innovation significantly impact the targeted energy problem? | | |
| 3.  Does the proposed research provide a potential benefit to CA electric consumers? | | |
| 4.  Does a viable market connection exist for the proposed innovation? | | |
| 5.  To what extent is the proposed research already covered by competitive markets? | | |
| **Overall Merit** (taking all factors into consideration) | **10** | **20** |
| **Maximum PA and PTRB Points:** | **20** | **30** |

6. Final Rank Order and Funding Recommendations.

The PTRB scores are then added to each proposal's prior composite score to establish each proposal's final composite score (max. 100 points). The final composite score is used to create the final rank ordered list of proposals. Based on available funding and the quality of the top ranked proposals the PTRB will recommend one or more funding cutoff lines. The funding recommendations are forwarded to the Energy Commission's RD&D Committee.

7. Research, Development and Demonstration Committee (RD&D Committee)

The RD&D Committee will review the PTRB grant recommendation process to ensure it is based on fair and unbiased procedures. Based on the PTRB recommendations and overall program considerations the RD&D Committee will make a funding recommendation to the full Commission. The RD&D Committee may disapprove any grant project recommendation for any or all of the following reasons:

- The project is counter to the development and implementation of a robust public interest RD&D portfolio of projects that address California's energy needs by focussing on the RD&D plans covering the PIER subject areas;
- The project is counter to the objective of balancing risks, timeframes and public benefits in a manner consistent with California's energy policies;

- The project is counter to the objective of creating a public interest RD&D knowledge base and disseminating information that will allow citizens, businesses, government and other entities to make informed decisions concerning energy technologies and services;
- The project is counter to the objective that the public interest RD&D program is connected to the market;
- The project is counter to the energy policies of the State of California[1].

Any project disapproval will not affect the score of any other project. The final ranked list of projects will be forwarded with a funding recommendation to the full Energy Commission.

8. Energy Commission Business Meeting

The list of grant projects will be considered for approval at a regularly scheduled business meeting. The Commission reserves the right to reject any or all of the grant project recommendations.

The Energy Commission, based on recommendations of the Energy Commission's RD&D Committee, will approve funding for a specified list of grant projects. It is anticipated that grant proposals will be approved by the Energy Commission within 20 weeks of a particular solicitation cutoff date. Another two to four weeks is required to execute grant agreements on projects that received funding approval.

Projects that receive full Commission approval for funding will be posted on the EISG Program area of the Commission web site within five business days after the business meeting action.

## C. Unfunded Proposals

Applicants whose proposals were not funded will receive a letter from the Program Administrator that summarizes the proposal's current status and whether or not the proposal is eligible for resubmission. If the proposal had advanced to technical review, the letter would include the proposal's relative standing and any noted weaknesses documented by the Program Administrator, technical reviewers and PTRB members. Proposals that are classified as ineligible for resubmission may be contested by the applicant by presenting their case in writing to the Program Administrator. Proposals that fail to be funded after being considered in two cycles will not be eligible for resubmission unless specifically invited by the Program Administrator. Proposals that advanced to technical review twice are considered to have had two opportunities regardless of whether or not they advanced to the PTRB.

## D. Grant Applicant Feedback and Disputes

An applicant may request a debriefing regarding an unfunded proposal by submitting a written request to the Program Administrator within 30 days of the date of notification. The Program Administrator will address questions or disputes raised by the applicant generally within 30 days of a written request for debriefing.

## E. Resubmitted Proposals

Applicants who desire to resubmit a proposal that was not funded in an earlier solicitation must satisfy the following requirements:

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[1] Policies for PIER and for energy in California are expressed in legislation. AB 1890 (Chapter 854, September, 1996), SB 90 (Chapter 905, October, 1997), Warren-Alquist Act (CEC Publication No. P160-98-001), and in CEC policy reports (e.g., June, 1997 "Strategic Plan Report on Implementing the RD&D Provisions of AB 1890; P500-97-007," 1997 California Biennial Energy Plan (P105-97-001).

(a) Receive a status letter from the Program Administrator that states that the proposal is eligible for resubmission.
(b) Submit 9 copies of revised proposal and indicate on Form A, Item h, of grant application, the proposal number(s) assigned to prior submission(s) related to the same concept.
(c) Provide a resubmission summary (5 pages max.) in table or outline format that identifies and responds to the concerns noted in the previous evaluation of the proposal (see sample table format below).

**Sample**
**RESUBMISSION SUMMARY**

| Concerns | Response | Page |
|---|---|---|
| 1) Project team lacks experience in fuel cells. | Added Dr. Smith to team. | Form E |
| 2) Test plan for prototype lacks sufficient detail to evaluate. | Expanded on test plan details. | Pg 4-5 |
| 3) The material to be tested was already evaluated by Dr. Smith. | *Rebuttal*: Dr. Smith only tested for properties A & B whereas this project will look at properties C& D. | N/A |

A resubmission summary that fails to adequately address all significant concerns noted in the prior evaluation will be sufficient grounds to **fail initial screening**. The resubmission summary pages do not count against the allowed page count for the narrative or appendices. In most cases, resubmitted proposals that had advanced to technical review are sent back to the original technical reviewers for rescoring based on the additional information.

## F. Policy Regarding Follow On Funding

The EISG Program was designed to serve as a one time funding source for projects seeking to establish initial concept feasibility. We are currently not accepting proposals for follow on funding, however, policy in this area is still under review. Should the policy in this area change it will be documented in future versions of the grant application manual.

## G. Modifications

To make a project acceptable, the Commission or Program Administrator retains the right to negotiate minor changes to a proposal's work statement and/or budget at any time during the evaluation, approval and agreement execution process. Such modifications would be made to:

- Adjust the project scope to produce the information needed to assess concept feasibility,
- Adjust project budget to comply with guidelines related to authorized expenses;
- Avoid duplication of work;
- Reduce administrative requirements; and/or
- Include tasks necessary for project success.

Projects that require major changes will be sent back to the applicant for revision with the option to resubmit in a future cycle.

## H. Intellectual Property Rights

Copyrightable material and all patent rights for inventions conceived or first actually reduced to practice in the course of the grant project will be the property of the Awardee subject to the State retaining certain limited use rights. The Awardee must disclose to the EISG Program Administrator, on a confidential

basis, all such inventions.  All materials submitted in response to an EISG solicitation and in the performance of the grant will become the property of the State of California for disposition purposes.  The EISG Program Administrator will take reasonable precautions to protect the intellectual property rights of the applicants and Awardees by requiring all personnel who handle, screen or review proposals and deliverables containing proprietary/confidential information to sign a non-disclosure agreement (see attachment containing sample non-disclosure agreement).


## Part 3.      GRANT APPLICATION INSTRUCTIONS

### A.  Grant Application Package Checklist

The full application will serve as the official submittal to the EISG Program Administrator that will be formally evaluated and scored.  Include all information necessary to adequately review the proposal, including all information requested in this Manual.  Do not incorporate by reference information contained in the pre-proposal or in other materials.  The evaluation of the final application will be the basis for approving or denying funds for the proposed project.

The application package should be assembled in the order shown in the checklist below.  Additional instructions for filling out the forms are provided on the back of each form.

Mail nine (9) full copies (original plus 8 copies) including any supporting documents.  Submit one paper copy of the optional briefing slides.  (see Part 3.E.).

Original copy should be bound only with a spring clip.  Remaining copies should be bound only with a staple in the upper left corner.  **No covers or other types of bindings are allowed**.

- ☐ Form A: Grant Application Cover Page *(signed and dated)*
- ☐ Project Summary *(1 page max.)*
- ☐ Statement of Work (bullet format 1-2 pages)
- ☐ Project Narrative *(10 page max.)*
- ☐ Appendices to Narrative *(optional - 10 page max.)*
- ☐ Form B: Certifications
- ☐ Form C: Project Schedule / Deliverables
- ☐ Form D: Proposed Budget Summary *(attach short budget narrative if required)*
- ☐ Form E: Project Personnel
- ☐ Key Personnel Resumes *(A maximum of two pages per person/organization.  Required for PI and Project Manager if they are separate individuals, optional for other team members.)*

The following items should be loose or clipped to cover letter and not bound with the proposal copies

- ☐ Cover Letter *(optional)(one copy)*
- ☐ Form F: Recommended Reviewers *(optional)(one copy)*
- ☐ Form G: Recommended Reviewer Disqualification *(optional)(one copy)*
- ☐ Resubmission Summary *(5-page max.) (Resubmits only - see Part 2.E. for details)(6 copies)*
- ☐ Briefing slides for PTRB *(optional) (3 slides max.)(1 paper copy)*

Final applications that do not include at least one (1) signed original and eight (8) copies or have not been received by the EISG Program Administrator office by 5:00 PM on the advertised cutoff date will not be included in the current evaluation cycle. No faxed or emailed copies will be accepted.

## B. Project Summary

Provide a one-page **non-proprietary** summary description of the grant project. Format requirements include: margins no less than 1", font size no smaller than12 pt. and single or double spaced. Title the page with "Project Summary" followed by the project title and name of the principal investigator. There is no word count restriction for the single page summary. The project summary should summarize the key items requested in the recommended narrative format specified in Part 3.C.

The project summary will be authorized unrestricted public distribution and will be listed on the Web and in public databases. The description should be written at a level that could be understood by the general public with sufficient information to stand on its own. Although the technical review will be performed on the entire proposal, the project summary may be all that some board and committee members see when exercising their review functions at the later stages of the review process.

## C. Statement of Work

Provide a 1-2 page, **non-proprietary,** Statement of Work in bullet form that identifies the project objectives, subobjectives, primary tasks and subtasks. Use the project narrative to expand on the objectives and tasks. References to project tasks should be consistent between the Narrative, Statement of Work and Schedule. Project objectives and subobjectives must to be clearly identified and need to be measurable or knowable as a result of the research proposed. For example, your primary objective may be to increase engine efficiency by 20% which is supported by two subobjectives (1) reduce friction by 25% with magnetic bearings and (2) improve combustion efficiency by 20% with new fuel additive.

The Statement of Work will be authorized unrestricted public distribution and will be listed on the Web and in public databases.

The following is a recommended format for the Statement of Work:

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<div align="center">

Statement of Work
*Project Title*
*PI Name*

</div>

Project Objectives
       Objective 1: *(e.g., improve device efficiency by 20%)*
       Objective 2: *(e.g., achieve NOx emissions of 3ppm)*
Project Tasks
       Task 1:
              Subtask 1.1:
              Subtask 1.2:
       Task 2:
              Subtask 2.1:
              Subtask 2.2:

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## D.   Project Narrative

Provide a project narrative that is no more than 10 pages in length (not counting reference list) that describes the project plan in detail.  Key supporting documents referenced in the narrative such as photos, charts, drawings, blueprints, graphics, letters of support and excerpts from key articles may be included as appendices to the project narrative.  Appendices are restricted to a maximum of 10 pages.  Layout requirements for the narrative include:  margins no smaller than 1", font size no smaller than 12 pt, single or double-spaced and pages must be printed single-sided.  The project narrative must address the content items identified in the following recommended format, however the sequence in which the information is presented may be determined by the applicant.  Project narratives that contain acronyms should include a list of acronyms and their meaning after the reference list.

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Project Narrative

1) Project Objective(s)
   (a) Identify specific objectives that are measurable or knowable from the research.
2) Energy Problem Targeted
   (a) Must address a known energy problem.
3) Impact on Energy Problem
   (a) Quantify the potential impact to the electric consumer in terms of reduced cost per kWh, reduced kW consumption, emissions reduction, increased reliability, improved product features etc.
4) State-of-the-Art
   (a) Summarize the relevant results of a current literature/Internet search.
   (b) Compare existing products, processes, and/or services that perform the same or similar functions as the proposed concept.  Clearly show the relevant differences (i.e. cost, reliability, efficiency, functions etc.).  Recommend comparison data be placed in table format when practical.
5) Concept Feasibility Issues
   (a) Identify the technical obstacles that this project seeks to overcome.
6) Proposed Innovations
   (a) The more creative and innovative the proposed solutions the more competitive the proposal.
   (b) Provide sufficient technical details to assess the concept's technical merit.
7) Primary Tasks
   (a) Provide a description of the work required to accomplish the primary tasks.
8) Market Connection
   (a) Identify who would adopt, benefit, manufacture, sell or buy the results of the innovation if proven feasible.

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Applicants should take into consideration the evaluation criteria listed in Part 2.B. when writing the narrative.  Applicants are encouraged to obtain letters of support from industry that express interest in the technology being proposed since such letters hold significant weight when evaluating the concept's market potential, particularly when the proposed concept targets a narrow market niche or proposes an unconventional alternative to existing technologies.  Market connection can also be supported by trade

journal articles, market surveys or letters of support from members in the target market (architects, home owners, building contractors, HVAC contractors, manufacturers, etc.) who are familiar with the concept being proposed.

## E.  Briefing Slides

Proposals that pass initial screening and score above 25 in technical review will be briefed to the PTRB members prior to their scoring.  Grant applicants have the option to provide up to 3 paper slides (B&W or color) that can serve as a visual aid to assist the PA staff in briefing the project to the board members. Pictures, drawings or graphical representations of complex designs or processes are most useful.  Word slides are of little value and may not be used.  Since the technical reviewers will not see the slides they should not be referenced in the proposal unless the slides came from the proposal.  This is the applicant's opportunity to provide information that would help the board members to quickly visualize the work being proposed.  A color camera overhead projector will be used to project the paper slides which cannot exceed 8.5" x 11" in size.  They can be in either landscape or portrait orientation.

## F.  Proprietary Information

If the proposal contains proprietary information, as indicated on Form A, Item g., then the applicant must clearly mark those sections in the application that are proprietary (all nine copies).  This could be in the form of a classification stamp at the top and bottom of classified pages or boxes placed around specific paragraphs or annotations in the margin that clearly identify those sections that are proprietary. Applicants are encouraged to limit the proprietary information to only that which is necessary to adequately assess the technical merits of the proposed concept.  Classifying an entire project narrative and appendices as proprietary is not acceptable unless there is clear evidence to support the classification.

Appropriate procedures to safeguard proprietary or confidential information will be employed by the EISG Program Administrator, the Commission, its subcontractors and technical reviewers.

## G.  Budget Narrative

Attach a short budget narrative to Form D (Proposed Budget) to breakout travel expenses and material/misc. expenses if not already itemized on the budget.  If an indirect expense is charged, indicate how it was calculated.  Explain any large or unusual budget items that are not typical in small grant projects.

## H.  Unauthorized Expenses

The following costs will generally NOT be allowed in EISG projects:

- Costs incurred by applicants in preparing proposals (including travel and personal expenses), project debts or costs incurred before Commission approval and the effective date of the grant agreement.
- Costs for lobbying or attempting to influence any public official.
- Costs associated with protecting intellectual property.
- Cost to offset obligations of individuals or work not associated with the approved project.
- Procurement of general-purpose equipment (e.g. general-purpose computers, software, fax machines, copiers, office furniture and tools) that could be leased or rented at lower cost.

- Cost of news releases announcing the results of an EISG project.
- Relocation costs of employees or staff members.
- Financial aid, scholarships, or fellowships, except when paid under established campus policy as part of the compensation for research performed in the EISG project during the term of the contract.

## I. Allowed Direct Expenses

1. Salaries, Wages and Fringe Benefits

Labor expenses accrued by the Awardee and team members during the term of the grant agreement are allowable to the extent that they meet the following criteria:

(a) The compensation is reasonable for each individual's skill level and experience and conforms to consistently applied compensation policies of the individual's organization.
(b) Fringe benefits are allowable as a direct cost (if not included as an indirect cost) in proportion to the salary charged to the grant and provided the expense is based on formally established and consistently applied compensation policies of the individual's organization.

2. Consultant Services

Payments to consultants are allowed provided the costs are reasonable and commensurate with the services provided and are included and itemized in the approved budget for the grant. There are no restrictions on who an applicant can subcontract with or how much work may be subcontracted out provided the subcontracts include the carry through clauses specified in the grant agreement (drug free workplace, debarment, intellectual property, etc.).

3. Travel Costs

Travel costs of Awardees are allowable if they are required to conduct the research and are reasonable for a small grant effort. Conference travel is allowable if it occurs towards the end of a project for the purpose of presenting a paper on the results of the research. Applicants should consider cost sharing conference travel in excess of $1500 or risk having the travel deleted from the budget. For travel to be reimbursed it must occur within the term of the project as specified on the grant agreement. The purpose of each travel trip must be specified in the budget narrative that is attached to Form D. Reimbursement of travel expenses will be in accordance with the guidelines contained in the grant agreement.

4. Facility Lease/Modification

The cost of leasing or renting commercial work space is acceptable, however, individuals cannot charge rent for any portion of their private residence. EISG Program grants will not fund construction or facility improvements. However, rearrangement and alteration costs that do not constitute construction, and aggregate to less than $10,000 may be allowable under EISG Program grants to adapt space or utilities within a completed structure to accomplish the objective of the grant-supported activity, provided that the requirement is clearly set forth in the project proposal and included in the approved budget.

5. Equipment Rental or Lease

The cost of renting or leasing equipment is allowable provided the charges are reasonable.

6.  Equipment Purchase and Disposition (unit cost of $5,000 or more)

Within the EISG Program, equipment is defined as non-expendable, tangible property which has an acquisition cost of $5,000 or more per unit.  All equipment that applicants intend to purchase with grant funds must be included in the budget and itemized in the budget narrative that is attached to Form D (Proposed Budget Summary).  All equipment will be purchased exclusively by the EISG Program Administrator and be made subject to the following terms and conditions:

(a) Title to all non-expendable equipment purchased with EISG Program funds shall remain with the State of California (California Energy Commission).
(b) The Awardee shall assume all responsibility for maintenance, repair, destruction and damage to equipment while in the possession of or subject to the control of the Awardee (costs for maintenance and insurance may be borne by the grant).

Equipment purchases will be considered allowable as direct costs provided the equipment is:

(a) Necessary for completing the primary objectives of the grant research.
(b) Renting or leasing the equipment at lower cost was not an option.

Upon completion of the project or termination of the grant contract, the Commission may:

(a) Request that such equipment be returned to the Commission with any costs incurred for such return to be borne by the Commission.
(b) By mutual agreement, permit the EISG Program Administrator or Awardee to purchase such equipment for an amount not to exceed the residual value of the equipment as of the date of termination of the grant agreement.
(c) Transfer ownership of equipment to the EISG Program Administrator, an academic institution or the Awardee.  If an Awardee desires to obtain ownership of the equipment a request must be submitted at the end of the project that includes a description of how the equipment in question would be used to further energy research.

7.  Materials, Supplies and Miscellaneous Expenses

Standard material, supply and miscellaneous expenses are allowed that are typical for a grant research project.  This budget line is used to identify all remaining expenses that are not covered by the other budget lines.

General purpose equipment (i.e., computers, printers, furniture, test equipment, tools, software) may be rented but not purchased unless renting is more expensive or not practical.  In those instances where a case can be made for purchasing general purpose equipment, provide the rationale in the budget narrative.  General purpose equipment that is purchased must be listed as a deliverable on Form C.  Disposition of general purpose equipment at the end of the project will be determined by the Program Administrator.  General purpose equipment such as computers that are needed for performing experimental functions such as data logging may be purchased and need not be listed as a deliverable.

**J.  Indirect Costs**

Small businesses, non-profits and academic institutions that choose to recover indirect costs may use an established rate based on the following priority: (1st) the rate used when doing similar research for the State of California or other state government, (2nd) the rate used when doing similar research for the Federal Government, (3rd) the rate used and consistently applied to similar research contracts performed in the civilian sector.  If no indirect rate has been established then a maximum indirect rate of 15% will be

allowed on this grant. Excessive indirect rates that are deemed to adversely impact the quantity or quality of the research will be an evaluation consideration when scoring proposals. Organizations that have indirect rates higher than 50% can improve their competitive standing by cost sharing a portion of their indirect rate or by providing a justification in the budget narrative based on the value of the organizational resources covered by the indirect rate that directly support the project. Individuals will not be reimbursed for indirect costs. Organizations that do not claim an indirect rate and individuals may charge as a direct expense the incremental cost of obtaining the insurance coverage specified in the Model Grant Agreement.

For the purpose of this program, general and administrative (G&A) is included as an indirect cost. Organizations claiming an indirect rate must submit a budget narrative that is attached to Form D (Proposed Budget) that explains how the indirect cost was calculated.

## Part 4.     GRANT AWARD AGREEMENT

### A. Grant Agreement

Once a grant is approved for funding by the Commission, the EISG Program Administrator will send an award notification letter to the applicant containing the following: (a) a list of any outstanding issues that need to be resolved prior to executing the agreement; (b) request for name and address of the individual with signature authority, (c) request for insurance certificates, and (d) guidelines for obtaining vendor bids on project equipment, if applicable. The agreement will be mailed under separate cover once all outstanding issues have been resolved and incorporated into the agreement. The agreement must be signed by both parties before work may begin or expenses reimbursed. Any requests for modifications, changes, additions, or deletions from the terms and conditions in the Model Grant Agreement must be included as part of the grant application and require written approval from the Program Administrator prior to being incorporated into the final agreement. Grant applicants are required to certify on Form B of the application that they have reviewed the standard terms and conditions contained in the Model Grant Agreement that is available for viewing and downloading from the EISG Solicitation web page. Requests for significant modifications to the grant contract may be grounds for application rejection. The grant agreement will incorporate by reference the grant application manual, the grant application and any addenda to the application (including correspondence to or from the Program Administrator that specify modifications or restrictions). Failure to agree to the terms, conditions and requirements of the grant agreement would be grounds for withdrawing the award.

### B. Grant Performance

1. <u>Reimbursement Invoices</u>

EISG grant funds are distributed only for reimbursement of project expenses. Invoices for reimbursement should be submitted on a regular basis to the EISG Program Administrator at intervals not less than one month and not greater than every three months. Advances on grant funds will not be allowed. Reimbursement invoices submitted to the Program Administrator will be paid within 30 days of receipt, unless contested. The Program Administrator retains the right to withhold payment for the following reasons: (a) progress reports are not current; (b) the progress reports contain insufficient detail to assess Awardee's progress or (c) there is evidence of lack of performance. The last 10% of the grant award will be withheld pending receipt of all deliverables.

2. <u>Deliverables</u>

Awardee must submit all deliverables to the EISG Program Administrator as specified in Form C and the grant agreement.  The minimum required deliverables include:
    (a) Progress Reports (minimum frequency depends on project term)
        -   Every two months for projects with a term of 10 months or less
        -   Every three months for projects with a term of 11-18 months
    (b) Final Report  (includes abstract, executive summary, project report, feasibility analysis)

3. <u>Tax and Legal Issues</u>

If in doubt, Awardees should consult with legal and tax advisors (at the Awardee's expense) to fully understand the legal and tax obligations incurred when entering into a grant contract.

| California Energy Commission<br>**Energy Innovations Small Grant (EISG) Program**<br># GRANT APPLICATION COVER PAGE | # FORM A |
|---|---|

**a. Project Title:** _____

**b. Project Subject Area:** (*Indicate the one that most applies*)

☐ Industrial/Agriculture/Water End-Use Efficiency ☐ Environmentally Preferred Advanced Generation

☐ Building End-Use Efficiency ☐ Energy-Related Environmental Research

☐ Renewable Energy Technologies ☐ Strategic Energy Research

**c. Applicant Category:**

☐ Individual ☐ Academic Institution

☐ Small Business ☐ Non-Profit

**d. Grant Funding Requested: $**_____ (*maximum allowed $75K*)

**e. Proposed Project Duration:** _____ (*maximum duration 18 months*)

**f. Principal Investigator/Project Manager:** (*serves as single point of contact for all communications*)

| Name: _____ | Address: |
|---|---|
| Phone: _____ Fax: _____ | |
| Email: _____ | |
| Organization: _____ | |
| Position/Title: _____ | |

**g. Proprietary/Confidential Information:**

☐ NO – Proposal does not contain proprietary information, unrestricted distribution authorized.

☐ YES - Proposal contains proprietary information, restrict distribution and disclosure.
    (*clearly mark and label those sections that are proprietary on all copies*)

**h. Application Status** (*include only prior submissions on same concept*)

☐ First Submission ☐ Second Submission ☐ Third Submission

Provide the proposal number(s) assigned to prior submission(s):_____

**i. Indicate Version of Grant Application Manual Used:** (*date on manual cover*) _____
*Applicants must use the current version of the application manual posted with the solicitation notice.*

**j. Principal Investigator/Project Manager Certification:** To the best of my knowledge, I certify that the information contained in this grant application package is true, and discloses all requested information.

**Principal Investigator/Project Manager Signature**:_____ **Date**:_____

| Reserved for EISG Program Administrator Use | |
|---|---|
| Date Received | Proposal Number Assigned |
| | |

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FORM A
INSTRUCTIONS

Grant Application Cover Page

</div>

**Item a:    Project Title**
Provide a title for the project that is descriptive of the proposed work.

**Item b:    Project Subject Area**
Check the one box that corresponds to the PIER Program area that is most representative of the proposed work.

**Item c:    Applicant Category**
Check the one box that represents the category you are applying for a grant under. The applicant categories are defined in Part I of this manual. The category marked in Item c must match the information certified on Form B.

**Item d:    Grant Funds Requested**
Specify the amount of grant funds needed to complete the project, not to exceed $75K. All project costs must be covered by this amount (including research facilities and expertise that are requested through the EISG Program Administrator) unless the applicant or other sources are contributing funds to this project.

**Item e:    Proposed Project Duration**
Specify how many months you need to complete the project, cannot exceed 12 months unless the nature of the research clearly justifies a longer term in which case up to 18 months may be requested. Include the time it takes to complete the final report after all data collection and analysis functions have been performed.

**Item f:    Principal Investigator/Project Manager**
In most cases the PI also serves as the Project Manager. If this is not the case then list the Project Manager in item f and identify the PI on Form E (Project Personnel).

**Item g:    Proprietary/Confidential Information**
Indicate if the proposal contains any proprietary information that requires protection. Clearly mark and label those sections that are proprietary on all copies.

**Item h:    Application Status**
Indicate if this is your $1^{st}$, $2^{nd}$ or 3rd submission of the same or similar energy concept. If this is a second or third submission provide the proposal number(s) that were assigned in the earlier solicitations (proposal number was annotated on postcard notifications). Failure to identify prior submissions and provide a resubmission summary are ground for failing initial screening.

**Item i:    Version of Grant Application Manual**
Enter the month and year that is printed on the cover page of the Application Manual. Applicants must use the version that was posted with the current solicitation notice.

**Item j:    PI/PM Certification:** Signature and date of Principal Investigator/Project Manager.

| California Energy Commission<br>**Energy Innovations Small Grant (EISG) Program**<br># CERTIFICATIONS | # FORM B |
|---|---|

**a.   APPLICANT ELIGIBILITY CERTIFICATION**

☐   **Individual**  Must be acting independently. If employed or affiliated with an organization, applicant has authorization from the organization to pursue grant research exclusively as an individual with no rights reserved to the organization.  The individual, not the organization, retains all intellectual property rights accrued from the grant project.  *(if employed or affiliated with an organization or business, specify in the space below  any financial interest the organization or business has in the proposed project)*

☐   **Small Business**  EISG Program uses the Federal definition of small as specified in Title 13, Code of Federal Regulations, Part 121 (13 CFR § 121), Small Business Size Regulations (http://www.sba.gov/regulations/siccodes/).  Size requirement varies based on type of business with the average requirement being either prior year gross receipts of $5 million or total employees cannot exceed 500.  *(in the space provided below specify your SIC Code and either the number of employees or  gross revenues for prior year that qualify your organization as a small business)*

☐   **Non-Profit Organization**  Possess IRS tax exemption.  Non-profit organizations that are already under contract to the Energy Commission to perform PIER related work outside of the EISG Program are prohibited from applying to the EISG Program.

☐   **Academic Institution**  Public or private postsecondary institutions.

Item (a) Information:


**b.   FINANCIAL AND LEGAL CERTIFICATIONS**

☐   Checking this box certifies that the Principal Investigator and any team members, organization or business participating in this proposal have reviewed the terms and conditions contained in the model agreement.  If there are any terms or conditions that you cannot agree to then you must submit with the application a written request for changes to the standard terms and conditions.

☐   Checking this box certifies that the Principal Investigator/Project Manager and any organization /business participating in this proposal, have not declared bankruptcy in the last seven years.

☐   Checking this box certifies that the grant applicant acknowledges that all costs associated with proposal preparation are borne by the applicant, and that receipt of a proposal by the EISG Program Administrator does not constitute a contractual relationship with the grant applicant.

**c.   MULTIPLE AWARDS FOR THE SAME OR SIMILAR RESEARCH**

☐   Checking this box certifies that the grant applicant acknowledges that in the event they receive an EISG grant they agree to notify the EISG Program Administrator if they enter into a concurrent contract that requires the same or similar research as proposed in this application and in this event further agrees to limit reimbursement from the EISG Program to costs that are not covered by other awards.  If the applicant has previously received State or Federal funds (such as SBIR awards) to develop the proposed concept **attach a short description of the work completed and provide contact information (phone and/or email address) for the project managers at the funding agencies.**

**d.   CONCEPT ORIGINALITY**

☐   Checking this box certifies that the grant applicant has already performed a thorough search of the existing published literature and patents and determined that the proposed concept is original.

# FORM B
## INSTRUCTIONS

## Certifications

**Item a:** **Applicant Eligibility Certification**
You must check one of the four boxes to indicate the applicant eligibility criteria under which you are applying. Even if you qualify under more than one criteria (i.e., sole proprietor vs. individual), indicate the one that best fits your situation. Different categories have different restrictions (i.e., ability to invoice indirect expenses and ownership of intellectual property) to which the applicant will be held to. Provide the additional information requested (SIC codes, number employees, gross revenues etc.) in the space provided. Fraudulent misrepresentation of eligibility is grounds for immediate termination of award.

**Item b:** **Financial and legal Certifications**
If all three certifications are not checked you must indicate in the box provided or on a separate page the reason you cannot provide the certification. Not being able to provide the first two certifications (agree to all terms and conditions in model agreement and no bankruptcy in last 7 years) does not result in automatic disqualification. Proposed modifications to the terms and conditions will be considered within narrow limits as well as information that indicates proven financial responsibility since bankruptcy (references on other contractual work successfully completed). Any proposed modifications to the agreement's terms and conditions must be submitted with the grant application for review and requires written approval from the Program Administrator. Changes to the terms and conditions after the proposal is selected for funding will not be allowed. The model grant agreement is available for viewing and downloading from the EISG solicitation web page www.energy.ca.gov/contracts/smallgrant/index.html.

The third certification regarding proposal preparation costs and contractual relationship is not negotiable and must be certified in order to qualify.

**Item c:** **Multiple Awards for Same or Similar Research**
This certification prohibits applicants from seeking reimbursement from more than one funding source for the same work and must be certified in order to qualify. Applicants must disclose if they have previously received State or Federal funding for work related to the EISG proposal. Prior performance will be an evaluation consideration.

**Item d:** **Certification of Concept Originality**
This certification is to ensure the grant applicant has performed a reasonable search of the published literature and patents to determine that the proposed concept is original. University and public libraries can assist in performing searches of relevant research databases of journals and trade publications. Some databases, such as the one maintained by the U.S. Patent Office (www.uspto.gov) can be researched on-line through the Internet. The EISG program page on the web provides a link titled "Applicant Internet Resources" that provides links to many Internet sites that may be of value in establishing a concept's originality.

Note: The EISG Office is in the process of expanding its list of web resources that would be of value to the typical grant applicant and would welcome any suggested sites. Send your suggestions via email to the EISG Program Administrator.

| California Energy Commission<br>Energy Innovations Small Grant (EISG) Program<br>**PROJECT SCHEDULE / DELIVERABLES** | **FORM C** |
|---|---|

## SCHEDULE / MILESTONE CHART

| TASKS AND MILESTONES | MONTHS AFTER AWARD | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| Progress Reports | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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*List all primary tasks, subtasks and milestones in the order of accomplishment to include Progress Reports and Final Report.*
*Block out timeframe allocated for completion of each task.*

## CONTRACT DELIVERABLES CHART

| DELIVERABLES | MAA* | DESCRIPTION |
|---|---|---|
| **1.** Progress Reports (required) | ** | In accordance with Exhibit C in model grant agreement. |
| **2.** Final Report (required) | | In accordance with Exhibit D in model grant agreement. |
| **3.** | | |
| **4.** | | |

*\* MAA = Months After Award*
*\*\* Since more than one progress report will be delivered, use the schedule to indicate when they will be delivered..*

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FORM C
INSTRUCTIONS

Project Schedule/Milestone Chart

</div>

**Schedule**

- Use the first line of the schedule to show when the progress reports will be submitted. The maximum interval between reports is determined by the term of the project.
  - ♦ Every two months for projects with a term of 4-10 months
  - ♦ Every three months for projects with a term of 11-18 months

  For example, if you have a 12-month project and plan on 3-month reporting intervals you would show in line one of the schedule progress reports being submitted in months 4, 7 and 10.  Progress reports not received within 30 calendar days from the end of a reporting period interval will be considered in default.
- List the major tasks, subtasks and milestones in the order in which they occur.
- Block out the timeframe allocated for each task.
- Use an asterisk ✱ or     to represent milestones such as decision points and deliverables.
- Use the last line of the schedule to show when the Final Report will be submitted.  The Final Report must be submitted within the term of the grant agreement.  Build into the schedule a 4-week period for the EISG Program Administrator to review a draft of the Final Report prior to formal submission.  PI needs to allocate sufficient time within the requested project term to write the Final Report.

**Deliverables**

- Progress reports are a required deliverable and must be projected on line 1 of the schedule.
- The Draft Final Report and Final Report are required deliverables and must be projected on the schedule.
- Other deliverables may include prototypes, software modules, or general use equipment (such as office computers and application software) that you plan to purchase with grant funds.  General use equipment is generally not authorized for purchase unless purchasing is more cost effective than renting or leasing.  Prototypes that have concept demonstration value and are of reasonable size and weight (can be mailed through postal system) should be listed as deliverables and annotated as either a permanent transfer or for inspection and return.

## California Energy Commission
### Energy Innovations Small Grant (EISG) Program
# PROPOSED BUDGET SUMMARY

# FORM D

**PROJECT TITLE:**

| 1. PERSONNEL SALARIES/WAGES (list job titles) | Hours/ % Time | Hr. Rate/ Salary | Total Salary or Wages | EISG Funds Requested | Applicant Contributions | Other Contributions |
|---|---|---|---|---|---|---|
| Principal Investigator/Project Manager | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| Total Salaries/Wages: | | | | | | |
| Total Fringe Benefits: | | | | | | |
| Total Salaries/Wages and Fringe Benefits: | | | | | | |

**2. CONSULTANT/CONTRACTUAL SERVICES** (*itemize contracted services*)

| | | | |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| Subtotal Consultant/Contractual Services: | | | |

**3. OTHER DIRECT EXPENSES** (see instructions**)**

| | | | |
|---|---|---|---|
| a. Travel (combine all travel expenses on this line) | | | |
| b. Facilities Lease/modification Expenses | | | |
| c. Equipment Rental/Use Fees | | | |
| d. Equipment Purchases (total for items with unit cost over $5000) | | | |
| e. Materials/Supplies/Misc. (total lines e.1.– e.8.) | | | |
| (1) Total for material items with unit value less than $100 | | | |
| (2) | | | |
| (3) | | | |
| (4) | | | |
| (5) | | | |
| (6) | | | |
| (7) | | | |
| (8) | | | |
| Subtotal Other Direct Expenses: | | | |

| 4. TOTAL DIRECT COSTS (1 - 3) | | | |
|---|---|---|---|

| 5. INDIRECT COSTS (see instructions) | | | |
|---|---|---|---|

| 6. TOTAL PROPOSAL COSTS (4 + 5) | | | |
|---|---|---|---|

# FORM D
# INSTRUCTIONS

## Proposed Budget Summary

**General Information:**
- Reference Part 3.I. of the manual for general guidelines on allowable direct expenses.
- This form is available as a separate Excel file on the EISG Solicitation web page (www.energy.ca.gov/contracts/smallgrant/index.html) and is also incorporated into the PDF and Word versions of the application manual.
- The proposed budget form provides columns that allow the applicant to show the project funds coming from three sources (a) grant funds, (b) applicant's contribution (i.e., cash, in kind contribution or waived indirect) and (c) any other sources from which the applicant has received a financial commitment.
- Attach a budget narrative to this form that includes: itemized travel trips, itemized equipment purchases (unit cost greater than $5,000), justification for any unusual expenses that are not typical in a small grant project and an explanation of the indirect cost calculations if applicable.

1. **Personnel Salaries/Wages:**
   - List the functional job title for each investigator.
   - Fringe benefits may be added as long as they are not already included in the listed hourly rate or included in the indirect costs (if applicable).

2. **Consultant/Contractual Services**
   - There are no restrictions on who an applicant can subcontract with or how much work may be subcontracted out provided the subs satisfy the applicable clauses in the grant agreement.

3. **Other Direct Expenses**
   - For travel, facilities lease, equipment rental and equipment purchase enter a single total amount for each line on Form D and provide an itemized breakdown in the budget narrative.
   - The material/supply/misc. line includes all remaining expenses. Total all material expenses with a unit cost less than $100 and enter on line 3.e.(1). Break out the remaining material/misc. expenses with a unit cost greater than $100 on lines 3.e.(2) – 3.e.(8). Total lines 3.e.(1) – 3.e.(8) on line 3.e.
   - If you are an organization that is not claiming an indirect rate or are an individual you may itemize the added cost of obtaining the insurance coverage mandated in the Model Grant Agreement as a direct expense under the material line.

4. **Total Direct Costs** *(Total subtotals from items 1-3)*

5. **Indirect Costs**
   - Not applicable for Individuals.
   - Small businesses, non-profits and academic institutions that choose to recover indirect costs may use an established rate based on the following priority: (1st) the rate used when doing similar research for the State of California or other states, (2nd) the rate used when doing similar research for the Federal Government, (3rd) the rate used and consistently applied to similar research contracts performed in the civilian sector. If no indirect rate has been established then a maximum indirect rate of 15% will be allowed on this grant. Indicate in the budget narrative how the indirect cost was calculated. Excessive indirect rates that are deemed to adversely impact the quantity or quality of the research will be an evaluation consideration when scoring proposals. Organizations that have indirect rates higher than 50% can improve their competitive standing by cost sharing a portion of their indirect rate.
   - For the purpose of this program, G&A is considered an indirect cost.

6. **Total Proposal Costs**
   - First column total represents the requested grant amount and cannot exceed $75,000.

**Note: Bold blocks** represent budget amounts tracked for accounting purposes if the grant is awarded.

<table>
<tr><td><b>California Energy Commission</b><br><b>Energy Innovations Small Grant (EISG) Program</b><br><b>PROJECT PERSONNEL</b></td><td><b>FORM E</b></td></tr>
</table>

▸ Provide a brief summary of qualifications for each member of the project team for which a resume is not provided (resume required for Principal Investigator/Project Manager).

▸ Describe what contribution each team member will make to the proposed project.

**1)** Principal Investigator/Project Manager Name:

**2)** Investigator/Team Member Name:                          Position:

**3)** Investigator/Team Member Name:                          Position:

**4)** Investigator/Team Member Name:                          Position:

**\*** *If more than four investigators, use additional pages and attach to this form*

<div align="center">

FORM E
INSTRUCTIONS

Project Personnel

</div>

**General Information**
- If there are more investigators than the form can accommodate, use additional pages and attach to the form.

- The Principal Investigator/Project Manager must provide a resume (2-page maximum) which will be used to assess their qualifications (e.g., education, experience, relevant publications, etc.). If the positions of Principal Investigator and Project Manager are being performed by separate individuals then resumes will be required for both positions. Resumes on additional team members are optional but desired. Attach all resumes to this form.

**Item 1:** Specify the name of the Principal Investigator followed by a summary of the primary tasks to be performed by the PI and the percentage of time that will be devoted to the project.

**Items 2 – 4:**
Provide the name and position title of each team member/investigator that will be assisting the PI in the performance of the project. Provide a summary of qualifications for each investigator for which a resume is not provided and indicate the primary tasks they will be responsible for and the percentage of time they will devote to the project.

<table>
<tr><td colspan="2">**California Energy Commission**<br>**Energy Innovations Small Grant (EISG) Program**<br>**RECOMMENDED REVIEWERS**</td><td>**FORM F**</td></tr>
</table>

The grant applicant has the option to recommend technical reviewers that they would like the EISG Program Administrator to consider when deciding which technical reviewers to use for evaluating their proposal.  The Program Administrator retains final decision authority on selecting reviewers.

First Recommendation

| | |
|---|---|
| Name: | Address: |
| Phone:            Fax: | |
| Email: | |
| Organization: | |
| Position/Title: | |

Indicate why you consider this individual qualified in the subject area proposed.

Second Recommendation

| | |
|---|---|
| Name: | Address: |
| Phone:            Fax: | |
| Email: | |
| Organization: | |
| Position/Title: | |

Indicate why you consider this individual qualified in the subject area proposed.

Third Recommendation

| | |
|---|---|
| Name: | Address: |
| Phone:            Fax: | |
| Email: | |
| Organization: | |
| Position/Title: | |

Indicate why you consider this individual qualified in the subject area proposed.

FORM F
INSTRUCTIONS

## Recommended Reviewers

**General Information:**
- This form is optional.

- The intent of this form is to assist the Program Administrator in identifying potential qualified technical reviewers for proposals. Of particular interest are individuals that possess expertise in very narrow and specialized areas of technology that the typical technical reviewer of energy research may not be familiar with.

- Do not recommend individuals that would have a conflict of interest in reviewing your proposal or would even give the appearance of conflict of interest or bias.

- The EISG Program Administrator retains the final authority to select the technical reviewers.

<table>
<tr><td colspan="2"><strong>California Energy Commission</strong><br><strong>Energy Innovations Small Grant (EISG) Program</strong><br><strong>Recommended Reviewer Disqualification</strong></td><td><strong>FORM G</strong></td></tr>
</table>

The grant applicant has the option to recommend that specific individuals or organizations not be used as technical reviewers. If this is a resubmitted proposal you can identify reviewers we used to evaluate your prior submission by providing the proposal number assigned to the proposal and the designation TR1-TR5 that was noted on the technical evaluation form. Must provide justification for disqualification. The Program Administrator retains final decision authority on selecting reviewers.

First Recommendation

| Name: | Address: |
|---|---|
| Phone:          Fax: | |
| Email: | |
| Organization: | |
| Position/Title: | |

Indicate why you believe this individual/organization should not serve as a technical reviewer.

Second Recommendation

| Name: | Address: |
|---|---|
| Phone:          Fax: | |
| Email: | |
| Organization: | |
| Position/Title: | |

Indicate why you believe this individual/organization should not serve as a technical reviewer.

Third Recommendation

| Name: | Address: |
|---|---|
| Phone:          Fax: | |
| Email: | |
| Organization: | |
| Position/Title: | |

Indicate why you believe this individual/organization should not serve as a technical reviewer.

# *ENERGY INNOVATIONS SMALL GRANT (EISG) PROGRAM*
# *NON-DISCLOSURE AGREEMENT*

It is the responsibility of the EISG Program Administrator to safeguard all confidential/ proprietary information contained in documents submitted to the EISG Program. To fulfill this responsibility, the Program Administrator will require all personnel who process, screen, and review EISG Program documents (pre-proposals, proposals, final reports) that contain confidential information, to complete a non-disclosure agreement with the Program Administrator.

By signing this agreement the Program Administrator (hereafter referred to as the PA) and the program support personnel granted access (hereafter referred to as the RECIPIENT) agree to abide by the following terms and conditions.

1. <u>PA's Obligation</u>: The PA agrees to clearly identify those documents containing confidential/proprietary information and to identify those sections within the documents that are considered confidential/proprietary by the grant applicant which may include any or all of the following: data, materials, designs, concepts, processes, samples, specifications and financial or business information.

2. <u>RECIPIENT's Obligations</u>: RECIPIENT agrees to take all such precautions as may be reasonably necessary to prevent the disclosure of all confidential/proprietary information contained in EISG Program documents. In addition, the RECIPIENT agrees to the following:
    (a) Shall not make or retain copies of confidential information contained in EISG Program documents (excluding the EISG Program Administrator).
    (b) Shall not disclose confidential information to any third party unless the disclosure is necessary in the performance of their EISG Program responsibilities, in which case, the new RECIPIENT granted access must also sign a non-disclosure agreement.
    (c) Shall not use the confidential information for personal benefit.

3. <u>Limitation on Obligations</u>: The obligations specified in section 2 above do not apply to information that meets the following conditions:
    (a) Information already known or independently developed by the RECIPIENT (in documented form) prior to this disclosure by the PA.
    (b) Information previously published or in the public domain.
    (c) Information that becomes public knowledge or is legally disclosed by third parties after this agreement is executed.

4. The term of this agreement shall be five (5) years from the date of access to any EISG Program document containing confidential/proprietary information.

5. This agreement shall be governed and construed in accordance with the laws of the State of California.

## AGREED AND ACCEPTED BY

| RECIPIENT | EISG PROGRAM ADMINISTRATOR |
|---|---|
| Signature: | Signature: |
| Printed Name: | Printed Name: |
| Title: | Title: |
| Date: | Date: |
| Document Covered By This Agreement: | |