The Advanced Pumping Efficiency Program (APEP) is funded through Pacific Gas and Electric Company (PG&E) under the auspices of the California Public Utilities Commission. APEP is intended to encourage energy and water conservation through education and incentives that encourage retrofit of inefficient pumps.

IMPORTANT! - Please read Sections I., II., and III. carefully! Your Potential Incentive is calculated in Section V. These Sections are referenced in the Agreement in Section IV. that you will sign. If you are unclear on any aspect of this Agreement, the Policies and Procedures manual for APEP is available on-line at www.pumpefficiency.org. You may also call APEP directly at 1-800 845-6038.

I. Who is Eligible for APEP?

Owners or users of a PG&E non-residential electric or natural gas utility account that is primarily used for pumping water for production agriculture, landscape or turf irrigation, or municipal purposes, including potable and tertiary-treated (reclaimed) water but excluding pumps used for industrial processes, raw sewage, or secondary-treated sewage, and who are paying the Public Purpose Program Charge are eligible. Other factors may apply. Refer to the APEP Policies and Procedures Manual or contact the APEP Program Office for full eligibility criteria.

II. What Projects are Eligible for APEP?

IMPORTANT! APEP requires a pump efficiency test be performed prior to and after the retrofit project. They do not have to be done by APEP testers but they must be considered accurate by APEP. These tests cannot be more than three (3) years apart. APEP can accept applications for retrofit incentives after the project is completed but the application must be completed within two (2) years after the post-project test. This includes submittal of copies of the pre- and post-project pump tests, invoices, and the completed and signed application form.

Incentives are available ONLY for retrofit or replacement of either or both of the pump bowl and impeller. Work can be contracted or performed wholly or partially in-house if such capability exists. However, in-house labor rates and other costs cannot exceed the average of rates and costs charged by the two closest commercial pump service contractors.

Note these important additional eligibility factors:

- Only one pump, with one discharge point, is eligible per application. Projects involving multiple pumps, at different locations or on different meters, are not eligible. (A well with a booster pump located at the well, and in series with the well, is an eligible pumping system. However, call the APEP Main Office for details regarding these types of projects.)
- Only one incentive per individual pump will be paid in any one six-year period.
- The pump must be operational. APEP will not provide an incentive for an inoperable pump.
- No incentives will be provided if the project is for retrofit of an electric motor only or installation of a variable frequency drive.
- Retrofits intended to change the operating condition or use of the pump are not eligible, e.g., changing a well pump from low pressure flood irrigation to high pressure drip irrigation.
- No incentive will be provided to construct or finish a new water well. However, ask about PG&E’s Savings By Design Program for incentives for new construction projects.
- No incentives will be provided for pump impeller adjustments, well rehabilitation projects, projects intended to reduce air entrainment, or projects intended to reduce total dynamic head.
- Incentives under APEP cannot be combined with other utility grant, rebate, or service programs, or with grants, rebates or services offered by any other state or local government agency for the same measure.
- If this project involves a change in nameplate horsepower then the Applicant must submit a statement as to the purpose and desired outcome of the change in order to verify eligibility.
III. How to Obtain an Incentive

1. Complete and sign the Application Agreement in Section IV. Read all statements in the Agreement carefully. By signing this agreement you are certifying that all statements are true. YOU ARE NOT COMMITTING TO COMPLETING THE RETROFIT BY SIGNING THIS APPLICATION! It is only an agreement regarding the incentive that might be paid to you.

2. Calculate the Potential Incentive in Section V. We will do this for you if you prefer. Note that the actual improvement in pumping performance may be used instead of the calculation seen in Section V.

3. Describe the project as much as possible using Section VI.

4. Make a copy of the entire Application and documentation and mail the following to the APEP Program Office:
   - The original signed and completed Sections IV., V., and VI. of the Application.
   - Copy of a pre-project pump efficiency test.

5. When the accepted project is complete, paid for, and the post-retrofit pump test is completed, mail the following to the APEP Program Office:
   - The completed “Certificate of Project Completion”.
   - Copies of invoices marked PAID by the pump service company or copies of cancelled checks along with the invoices.
   - Copy of the post-retrofit pump efficiency test.

IMPORTANT! The invoices must clearly state all work that was performed, including replacement of parts, labor, and diagnostics.

All material should be mailed to:

Advanced Pumping Efficiency Program
6014 N. Cedar
Fresno, CA 93710

If you have any questions or need help in completing this form, please contact the APEP Program Office at (800) 845-6038

The Advanced Pumping Efficiency Program (APEP) may be terminated or modified without notice. APEP has a limited budget and all incentives are subject to availability of APEP funding. Applications are accepted on a first-come, first-served basis until available funds are exhausted or the end of APEP, whichever comes first. Check APEP’s Policies and Procedures Manual posted on the web site at www.pumpefficiency.org or call (800) 845-6038 for up-to-date information. You may be eligible for other Public Purpose Program Charge efficiency programs. Log on to web site www.californiaenergyefficiency.com or web site www.pge.com for more information.

IV. Agreement

IV.1 Applicant Information (required) -the Application must be in the name of the PG&E Customer of Record

PG&E Meter Number: ___________________________ Account Number: _______________ Service Agreement ID: ______________________

Name as it appears on PG&E bill: ______________________________________________ Contact Name: ______________________________________

Service Address as it appears on PG&E bill: ____________________________________________ Phone: __________________

________________________________________ Fax: __________________________

Mailing Address: ____________________________________________ E-Mail: ______________________

IV.2 Tax Liability Information for Applicant (required)

Tax Status:  □ Individual/Sole Proprietor  □ Corporation  □ Partnership  □ Exempt (tax exempt, non-profit)
Tax ID Number:  □ EIN  □ Federal Tax ID  □ SSN __________________________

Tax Liability: Incentives are taxable if greater than $600 and will be reported to the IRS unless you are exempt. PG&E will report the incentive as income to the Applicant on IRS form 1099 unless “Exempt” is marked as Tax Status. PG&E recommends that the Applicant consult a tax adviser concerning the taxability of incentives. PG&E is not responsible for any taxes that may be imposed due to incentive payments. Please note that a 1099 will be issued for the Applicant, regardless of who the Payee is, because the Applicant receives the benefits of the Incentives.
I am authorizing the payment of my incentive to the party named below and I understand that I will not be receiving the incentive check from PG&E. I also understand that my release of the payment to such party does not exempt me from the incentive requirements outlined in this Application.

Authorized by PG&E Customer of Record (PRINT): __________________________________________

Signature of Authorized: __________________________________________ Date: __________

Incentive check should be made payable to:

Payee Name: __________________________________________

Mailing Address: __________________________________________

City: __________________________ State: ____ Zip: __________

Telephone: __________ Fax: __________ E-Mail: __________

I, the Applicant, agree to the following terms and conditions:

1. I have read and understand Sections I., II., and III. of this Application. I have read and understand the Policies and Procedures Manual of the Advanced Pumping Efficiency Program (“Program”) operating in the PG&E territory, especially those parts pertaining to the application for, and calculation of, the incentive for a pump retrofit/replacement. I am an eligible Applicant, and this is an eligible pump retrofit/replacement project under the terms of the Program. I plan to purchase and install the equipment indicated in Section VI. of this Application. This will be for use at my place of business and not for resale.

2. If a tenant, Applicant is responsible for obtaining the property owner’s permission to install the Measure(s) for which Applicant is applying for an Incentive payment. Applicant’s signature on this Application indicates Applicant has obtained this permission.

3. The information I have supplied and included with this Application is true, correct, and complete.

4. If my application is deemed to be incomplete or incorrect by the Program, I agree to supply additional information or application corrections within three (3) months from the date of application. I understand that if I do not supply the information or corrections within this time period, the application shall be deemed expired and PG&E shall not have an obligation to the Applicant.

5. I agree that an approved Application shall expire and no incentive paid if; a) the Application is not completed, including submittal of the Certificate of Project Completion and all supporting documentation to the Program within two (2) years of the post-project pump test or b) the Program ends or c) California Public Utility Commission funds for the Program are unavailable or otherwise inaccessible to the Program and PG&E.

6. I agree that the maximum incentive that I can receive is the Potential Incentive calculated in Section V. of this Application as of the date of Application approval.

7. I certify that this pumping system, pump and power source was operational at the time of the retrofit/replacement. I further certify that this is solely to improve the operating efficiency of the pumping system and not for the purposes of substantially changing the intended operating condition of the pumping system, (e.g., from low pressure to high pressure operation).

8. I have read and understand the terms and conditions on this Application and agree to abide by the rules, requirements, and terms set forth on this Application.
9. If this Agreement is terminated for any reason, PG&E shall not be liable to the Applicant for damages or compensation of any kind.

10. I will supply documentation establishing paid proof-of-purchase. This will be done by attaching copies of all invoices marked “PAID” by the repair company to the Certificate of Project Completion and submitting the Certificate to the Program. I have attached documentation, or will supply documentation, establishing electricity use and pump performance as required by the terms of the Program.

11. PG&E reserves the right to determine the Applicant's eligibility for the Incentive program.

12. NEITHER PG&E NOR THE CALIFORNIA STATE UNIVERSITY, FRESNO FOUNDATION (“FOUNDATION”) MAKES ANY REPRESENTATION OR WARRANTY, NOR ASSUMES ANY LIABILITY WITH RESPECT TO QUALITY, SAFETY, PERFORMANCE, OR OTHER ASPECT OF ANY DESIGN, SYSTEM OR EQUIPMENT INSTALLED OR REPAIRED PURSUANT TO THIS AGREEMENT, AND THEY EXPRESSLY DISCLAIM ANY SUCH REPRESENTATION, WARRANTY OR LIABILITY. APPLICANT AGREES TO INDEMNIFY PG&E, THE TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY, THE FOUNDATION, CALIFORNIA STATE UNIVERSITY, FRESNO, AND ANY OF SAID ENTITIES’ AFFILIATES, SUBSIDIARIES, PARENT COMPANY, OFFICERS, DIRECTORS, AGENTS, AND EMPLOYEES AGAINST ALL LOSS, DAMAGE, EXPENSE, FEES, COSTS, AND LIABILITY ARISING FROM ANY DESIGN OF SYSTEM OR EQUIPMENT INSTALLED.

13. Both funding and the conditions of the Incentive are subject to the jurisdiction of the California Public Utilities Commission (CPUC) and shall be subject to such changes or modifications as the CPUC may, from time to time, direct in the exercise of its regulatory authority. If there are changes in the Incentive, PG&E will endeavor, but cannot guarantee, to provide a reasonable period of time before changes go into effect.

14. I understand that if the Program is modified in any way or terminated by order of any government entity, then this Agreement shall be revised or terminated consistent with that order.

15. PG&E may assign this Agreement, in whole or in part, or its rights and obligations hereunder, directly or indirectly, by operation of law or otherwise, without the Applicant’s prior written consent, provided PG&E remains obligated for payments incurred prior to the assignment. The Applicant may not assign this Application, in whole or in part, or its rights and obligations hereunder, directly or indirectly, by operation of law or otherwise without the prior written consent of PG&E.

16. I understand the Incentive requires inspections and measurements of the improved performance of the efficiency project. Therefore, I agree to provide access to the Project Site for these purposes to PG&E and/or its agents or assigns and the CPUC and/or its agents or assigns.

17. Funding approved for this Program is limited and will be paid on a first-come, first-served basis to qualified applicants. Funds will only be reserved upon Applicant’s acceptance into the Program. This Incentive offer is subject to the availability of authorized funds.

18. I agree to release PG&E, the Trustees of the California State University, the Foundation, California State University, Fresno, and all of said entities’ affiliates, subsidiaries, parent company, officers, managers, directors, agents, and employees from all claims, demands, losses, damages, costs, expenses, and liability (legal, contractual, or otherwise), which arise from or are in any way connected with any: (1) injury to or death of persons, including but not limited to employees of PG&E, Foundation, Applicant, or any third party; (2) injury to property or other interests of PG&E, Foundation, Applicant or any third party; (3) violation of local, state, or federal common law, statute, or regulation, including but not limited to environmental laws or regulations; (4) energy savings shortfall; so long as such injury, violation, or shortfall (as set forth in (1) - (4) above) arises from or is in any way connected with the Project, including any third party’s performance of or failure to perform the Project, however caused, regardless of any strict liability or negligence of PG&E, Foundation, or said entities’ officers, managers, or employees.

19. I certify that no other grant, incentive, rebate, or service from a utility, state, or local government-sponsored program has been, or will be, received in connection with the equipment purchased and installed under this contract. I authorize you to receive any and all information about me, or related to me, that you deem sufficient from any other energy efficiency program in order to verify this.
20. PG&E may suspend or terminate my Application, without cause, upon written notice to me.

21. I understand and agree the implementation of this Project shall comply with all applicable federal, state, and local laws, rules and regulations, and all applicable licenses and permits must be obtained. If permits or licenses are required, Applicant must provide certification of this before incentives or rebates are paid.

Applicant Name (PRINT): ______________________________

Applicant Signature: ___________________________ Date: ______________

IV.5 On-Bill Financing

[ ] Check here if this is an OBF project

TIF Number: ___________ PG&E Account Representative: __________________________

IV.6 Application Assistance Incentive

Applicant - Please complete and sign this section only if you were materially helped in completing the application form by an individual or company:

I certify that I was materially helped in completing this application and an Application Assistance Incentive should be paid by APEP to the Assistor named below.

Applicant Name (print): __________________________

Applicant Signature: ____________________________ Date: ______________

Name of person/company providing assistance: __________________________________________________________

Mailing address of the assistor:

City: __________________________ State: ____ Zip: __________ Phone: ______________

Assistor’s Tax Status: ☐ Individual/Sole Proprietor ☐ Corporation ☐ Partnership ☐ Exempt (tax exempt, non-profit)

Assistor’s Tax ID Number: ☐ EIN ☐ Federal Tax ID ☐ SSN ______________________

Tax Liability: Incentives are taxable if greater than $600 and will be reported to the IRS unless the Assistor is exempt. PG&E will report the incentive as income to the Assistor on IRS form 1099 unless “Exempt” is marked as Tax Status. PG&E recommends that the Assistor consult a tax adviser concerning the taxability of incentives. PG&E is not responsible for any taxes that may be imposed due to Assistance Incentives.
V. Calculation of Potential Incentive

IMPORTANT NOTES!
1. APEP may use the change in kilowatt hours required to pump an acre-foot of water as the basis for calculating the potential incentive if the Overall Pumping Efficiency (OPE) cannot be measured.

2. You are calculating a Potential Incentive below. Your Actual incentive may differ from this!

3. If your pre-project pump efficiency test shows an Overall Pumping Efficiency greater than 50% (40% if a submersible pump) we will use the actual performance improvement as the basis for your incentive calculations, not the equation shown below.

4. In consultation with you, APEP will perform all calculations. There is also a spreadsheet available on the web site www.pumpefficiency.org that will perform the calculations. An example calculation is seen at the bottom of the Certificate of Completion section.

Instructions for calculating your Potential Incentive:
1. Calculate a Potential Incentive based on energy and demand savings, section V.1.

2. Calculate a Potential Incentive based on 50% of the estimated project cost (it is not critical to know the project cost exactly if preparing the application before the project is completed) in section V.2.

3. Your Potential Incentive will be the lower of the two estimates. Enter this in section V.3.

V.1 Potential Incentive Calculated from Energy and Demand Savings

In the equation below:

\[ \text{Potential Incentive} = (0.25 \times \text{kWh RATE} \times \text{Annual kWh}) + (\text{kW SAVE RATE} \times \text{kW RATE} \times \text{PUMP HP}) = \$_________ \]

Annual kWh = Generally this is the kWh usage in the calendar year prior to the start of the project. However, APEP at its full discretion, may use the kWh usage in a different calendar year or years, or other twelve-month cycle if such usage is a more representative figure. In the event that the Applicant has cogeneration or self-generation facilities note that PG&E shall not pay Incentives for energy savings that exceed Applicant’s annual energy usage from PG&E. kW and kWh savings are limited to the Annual kW and kWh purchased from or delivered by the utility on the meter(s) serving the equipment to be installed, for which the utility collects the Public Purpose Programs (PPP) charge. The Annual kW and kWh include usage from Standby Service and less savings associated with pending energy efficiency applications.

kWh RATE = .12 for applications signed between May 15, 2014 and December 31, 2014, otherwise kWh RATE = .09

kW SAVE RATE = If the project was started or application signed before 1/1/2011 then kW SAVE RATE is 0. Otherwise kW SAVE RATE is .07159 for ag or turf pumps and .05966 for all other types (e.g., Agency, District, Municipal)

kW RATE = $150/kW for applications signed after July 1, 2014, otherwise kW RATE = $100/kW

APEP will round numbers during calculations for CPUC-reporting purposes. Your estimated incentive may not exactly match ours. Please call if you need further clarification.

\[ \text{Potential Incentive} = (0.25 \times \text{kWh RATE} \times \text{Annual kWh}) + (\text{kW SAVE RATE} \times \text{kW RATE} \times \text{PUMP HP}) = \$_________ \]

V.2 Potential Incentive Calculated from Project Cost

Enter the estimated, or actual, Project Cost: ____________ Project Costs include all Time (labor or engineering) and Materials related solely to the retrofit or repair of either or both of the pump bowl and impeller

\[ \text{Potential Incentive} = 0.50 \times \text{Project Cost} = \$_________ \]

\[ \text{Potential Incentive} = 0.50 \times \$_________ = \$_________ \]
V.3 Potential Incentive - Your Potential Incentive is the LESSER of the Potential Incentives calculated in Sections V.1 and V.2

Enter the lower of the numbers calculated in sections V.1 and V.2 - $ __________________________

VI. Please Describe the Project as Much as Possible

1. Motor: Horsepower ________ Speed (rpm) ________ Voltage ________
3. Has this motor been rewound? ☐ Yes ☐ No
   - If “Yes”, how many years ago? ___ how many times? ______
4. Is this motor controlled by a variable frequency drive (also known as an Adjustable Speed Drive)? ☐ Yes ☐ No
5. Pump Type: ☐ Well Vertical Turbine ☐ Horizontal Centrifugal ☐ Submersible ☐ Short-coupled Vertical/Slant Turbine
6. Impeller Type: ☐ Unknown ☐ Axial/Open ☐ Semi-Open ☐ Closed
7. Pump Use: ☐ Irrigation well ☐ Livestock well ☐ Ag Pressure boost ☐ Low-lift canal/ditch
   ☐ Tailwater return ☐ Tertiary water ☐ Municipal Well ☐ Municipal Pressure Boost
   ☐ Other: __________________________
8. Current Overall Pumping Efficiency (OPE) (if known): ________
9. Estimated, or actual if known, post-retrofit Overall Pumping Efficiency (OPE): ________
10. Current kilowatt-hours per acre-foot pumped (kWh/AF) : ________
11. Estimated, or actual, kilowatt-hours per acre-foot (kWh/AF) after retrofit: ________
12. Retrofit Actions (check all that apply):
   - Motor replacement (describe type, efficiency rating) __________________________
   - Motor rewind __________________________
   - Packing replacement __________________________
   - Impeller Trimming __________________________
   - Impeller replacement (describe type, model) __________________________
   - Bowl/Volute retrofit __________________________
   - Bowl/Volute replacement (describe type, model) __________________________
   - Adding stage(s) (if a turbine) __________________________
   - Removing stage(s) __________________________
   - Modification of the immediate pump discharge piping or valving to reduce pressure requirements.
   - Well clean/modification to reduce drawdown (describe fully on a separate sheet)
   - Installation of Variable Frequency Drive (also termed an Adjustable Speed Drive)
   - Other: __________________________
13. Have you attended an APEP educational seminar? ☐ YES ☐ NO – If “Yes”, approximately when? ________
14. Did you retrofit this pump because of the results from a pump efficiency test? ☐ YES ☐ NO
   - If “Yes”, was the test performed by:
     ☐ A Participating Pump Test Company of the Program ☐ Another pump tester
   - If “Yes”, how long after the test did you retrofit the pump? ________ months
15. Estimated completion date of retrofit: ________
16. Farm Type: ☐ General row crops ☐ Vegetable ☐ Citrus ☐ Fruit ☐ Nuts ☐ Golf Irri.
     ☐ Dairy ☐ Nursery ☐ Cut Flowers ☐ Sod ☐ Vineyard ☐ Apiary ☐ Livestock
     ☐ Other: __________________________
18. Is there a flowmeter on this pumping system? ☐ YES ☐ NO
   - If “Yes”, what type is the flowmeter? ☐ Std. Propeller ☐ Digital Propeller ☐ Velocity
     ☐ Paddle Wheel ☐ Acoustic ☐ Doppler Radar
Certificate of Project Completion (Keep this page until project is complete)

1. When the project is complete and the post-retrofit pump test done, fill out the Certificate of Project Completion below with the same information as on the Application. Refer to your Notice of Application Approval from APEP for the Application number.

2. Attach all invoices marked “PAID” by the repair company, or copies of cancelled checks along with the invoices, and a copy of the post-retrofit pump test results to this Certificate. IMPORTANT! The invoices must clearly show all work that was performed including:
   - Retrofit/replacement of pump with before (if identifiable) and after pump model and number of stages.
   - Retrofit/replacement of other parts (bearings, column, shaft, etc.) and reason.
   - Labor on-site and in-shop.

3. Mail the invoices, copy of the post-retrofit pump test, and Certificate to the APEP Program Office at:
   
   Advanced Pumping Efficiency Program
   6014 N. Cedar
   Fresno, CA 93710

4. Please call the Program at (800) 845-6038 if you have any questions as to what you need to do to receive your incentive.

CERTIFICATION OF PROJECT COMPLETION AND AUTHENTICITY AND ACCURACY OF SUBMITTED INVOICES

By signing below, the Applicant certifies:

1. That the pump retrofit/replacement project has been completed and the pump is operational.

2. That all invoices submitted for the Incentive are original invoices (or copies of original invoices) that are authentic and accurately reflect costs that were incurred by the Applicant solely in direct connection with the Applicant’s submitted pump retrofit project.

3. That the improvement or installation complies with any applicable permitting requirements and, if a contractor performed the installation or improvement, that the contractor holds the appropriate license for the work performed.

Applicant Name (print): ______________________________________ Application Number: _____________________
Applicant Signature: _________________________________________ Application Date: ______________________
PG&E Meter Number: ________________________ Account Number: ______________________
Service Agreement ID: ________________________
Name appearing on PG&E bill: ________________________
Company Name: _____________________________________________
Contact Person Name: ________________________ Phone: ________________________ Fax: ______________________
Start Date of Retrofit/Replacement: ______________ Completion Date of Retrofit/Replacement: ______________

Example Calculation of Potential Incentive (pre-project OPE is 50% or less, 40% or less if a submersible pump- if the pre-project OPE is greater than these levels please call the APEP office for assistance). Assume:

- Project Cost of $8,500
- ANNUAL kWh = 80,000 kWh in the 12 months prior to the pump retrofit
- PUMP HP = nameplate motor horsepower before the retrofit project = 75 HP
- Project started 2/10/2011 and is the retrofit of an agricultural water well and the pre-project pump efficiency test showed an Overall Pumping Efficiency of 38%. Thus,
  - kW RATE = $.09/kWh (project started after 1/1/2009)
  - kW RATE = .07159 (agricultural pump project started after 1/1/2011)

Potential Incentive (energy) = (.25 X kWh RATE X ANNUAL kWh) + ($100/kW X kW RATE X PUMP HP)
Potential Incentive (energy) = (.25 X $.09/kWh X 80,000 kWh) + ($100/kW X .07159 X 75)
Potential Incentive (energy) = ($1,800) + ($536.93) = $2,336.93

Potential Incentive (project cost) = .50 X Project Cost
Potential Incentive (project cost) = .50 X $8,500 = $4,250

The lower of the two Potential Incentives is $2,336.93 and that is the final Potential Incentive. The Actual Incentive may be recalculated when the project is completed and all documentation has been submitted.