

**SAN JOAQUIN VALLEY  
AIR POLLUTION CONTROL DISTRICT**

Off-Road Engine Component

# **AG PUMP ENGINE REPOWER PROGRAM**

**DIESEL/NG/PROPANE ENGINE TO ELECTRIC MOTOR  
REPOWER OPTION**

## **ELIGIBILITY CRITERIA AND APPLICATION GUIDELINES**

The San Joaquin Valley Air Pollution Control District (SJVAPCD) is currently accepting applications requesting monetary incentives to replace existing diesel, natural gas, or propane agricultural irrigation pump engine with new electric motor, according to the terms and conditions described in these guidelines. For additional information, assistance, or to receive application materials, please contact:

**San Joaquin Valley Air Pollution Control District  
Strategies and Incentives Department  
1990 East Gettysburg Avenue  
Fresno, CA 93726-0244**

You may also contact us by phone, email, or visit our website:

**(559) 230-5800**  
[grants@valleyair.org](mailto:grants@valleyair.org)  
[www.valleyair.org](http://www.valleyair.org)

## PROGRAM REQUIREMENTS

Replacement of an existing diesel, natural gas, or propane agricultural irrigation pump engine with a new electric motor.

❖ **General Information and Eligibility Criteria:**

- The SJVAPCD Agricultural Pump Engine Component is **not** a co-funding program. You are not eligible to participate in the SJVAPCD’s program if you are currently under contract to receive funding from any other local, state, or federal agencies for the diesel/NG/propane engine you intend to submit application.
- Projects will be funded based on the total eligible cost of the new motor, **funding is not to exceed 85% of eligible costs**.
- There are two (2) options available for funding. SJVAPCD staff will help the applicant determine which option is preferred prior to contract.

**Option A: Diesel/Natural Gas/Propane to Electric Repower**

**Option A** will pay 85 percent of the cost of the new electric motor when no line extension fees are charged by the electric service provider.

Horsepower Rating (converted kilowatt)	SJVAPCD Incentive*
25 Horsepower or greater	85% of eligible costs

**\*Incentive cannot exceed 85% of eligible costs**

**Option B: Diesel/Natural Gas/Propane to Electric Repower with Line Extension**

**Option B** will pay 85 percent of the eligible cost, plus 50 percent of the line extension fees charged by the electric service provider (up to the cost-effectiveness limit).

Horsepower Rating (converted kilowatt)	SJVAPCD Incentive*
25 Horsepower or greater	85% of eligible costs + 50% of eligible line extension fees

**\*Incentive cannot exceed 85% of eligible costs**

- The maximum eligible incentive amount is calculated up to the cost-effectiveness limit and may not necessarily reflect the maximum funding amount based on the aforementioned funding table.
- Eligible incentive amounts may be reduced after the claim for payment has been finalized, depending on all eligible items invoiced.

- Submission of a program application **does not** guarantee funding.

❖ The **existing engine** must:

- Be emission certified to a **Tier 3** level.

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- (Uncontrolled) Tier 0 engines are only eligible from 25hp – 50hp range.
  - Be rated at least twenty-five (25) horsepower or greater.
  - Must have an engine serial number stamped into the block or listed on an engine data tag affixed to the engine.
  - Be a stationary or transportable off-road industrial engine.
  - Be permitted or registered with the SJVAPCD if the engine is greater than fifty (50) horsepower.
  - Have been located and operated within the SJVAPCD boundaries (see page 12) for a period of at least twelve (12) months prior to the application submission date.
  - Be situated at its operating location (on the wellhead or booster trailer) and be in operating condition at the time of application submission **and** SJVAPCD inspection.
    - Operating condition is determined through an inspection process conducted by SJVAPCD staff prior to the agreement execution.
- ❖ The **new electric motor** must:
- Be rated equal to or greater than twenty-five (25) horsepower, which is equivalent to nineteen (19) kilowatts.
  - Have a horsepower rating no greater than 125 percent of the existing engine.
    - If the replacement motor is not available in the old engine horsepower range or the higher horsepower, engine will result in equal or less annual emissions, the SJVAPCD may approve a greater than 125 percent increase in horsepower on a case-by-case basis.
    - In such cases, the eligible funding amount will be based on a horsepower rating not to exceed 125 percent of the baseline horsepower, or the cost of an engine whose horsepower is no higher than 125 percent of the existing engine horsepower.
  - Equipment manufactured under the “Flexibility Provision for Equipment Manufacturers” as detailed in California Code of Regulation, title 13, section 2423(d), are ineligible for Carl Moyer Program funding as a replacement motor.
- ❖ The **participant** must:
- **Not purchase or install the electric motor under funding consideration prior to agreement execution.**
  - Operate the new electric motor 75% of the time within SJVAPCD boundaries (see page 12). Operational time is determined by the electric motor’s annual hours of operation.
  - Install and maintain a functioning hour meter to measure the hours of equipment operation through the full term of the agreement. If the equipment does not have a functioning hour meter at the time of the project, the meter must be installed, repaired, or replaced. If during the agreement term the hour meter fails for any reason, the hour meter must be repaired or replaced as soon as possible at the owner’s cost.
    - The cost of an hour meter is eligible for incentive funding and should be included in the quoted price of the new electric motor if there is not an existing functioning hour meter at the time of the project.

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- Keep the new electric motor at the specified well/pump site through the full term of the agreement.
    - If the new electric motor is moved from the specified well/pump site during the agreement term, the SJVAPCD must approve the location change before the motor is relocated.
    - The participant is allowed to remove engine from the pump site for reasons such as maintenance or safety reasons.
  - Remain the owner of the new electric motor through the full term of the agreement. Agreement terms range up to ten (10) years.
    - If the new electric motor or the property where the motor is located is sold during the agreement term, then the new owner must assume the agreement obligations with the SJVAPCD and comply with the terms and conditions outlined in the original agreement. The SJVAPCD must approve the electric motor ownership change **prior** to its sale.
  - Maintain replacement value insurance for the new electric motor through the full term of the agreement.
  - Submit documentation of payment to the local utility company for power installation when reimbursement request is made to the SJVAPCD.
  - Submit annual reports to the SJVAPCD through the full term of the agreement.
  - Destroy or render useless the existing engine, consistent with the requirements of the SJVAPCD.
    - If the new reduced-emission engine or the property where the engine is located is sold during the agreement term, then the new owner must assume the agreement obligations with the SJVAPCD and comply with the terms and conditions outlined in the original agreement. The SJVAPCD must approve the engine ownership change **prior** to its sale.
  - Submit annual reports to the SJVAPCD through the full term of the agreement.
  - Have an **approved** Authority to Construct (ATC) from the SJVAPCD **prior** to project approval, if a permit is required.
  - Destroy or render useless the replaced engine, consistent with the requirements of the SJVAPCD.
- ❖ Engines/equipment **ineligible** for funding:
- Engine <25HP.
  - Any engine with an unknown engine serial number.
  - Any farm or construction vehicle, or any on-road vehicle powering an irrigation gear head or pump.
  - Any engines owned by rental companies.

## COMPLIANCE CRITERIA

Projects that may be eligible for funding provide emission reductions that are surplus to any regulatory requirements. However, due to varying compliance timelines, opportunities for funding may be limited.

### ❖ SJVAPCD Rule 4702 (Internal Combustion Engines – Phase 2)

The June 2005 amendments to Rule 4702 removed the exemption for engines used in agricultural operations. Based on rule requirements, engines greater than 50 horsepower may need to be replaced with certified engines or install pollution control equipment in order to meet outlined emission limits. The requirements of Rule 4702 impact the funding structure of the Emission Reduction Incentive Program, and could have an impact on your submitted project. To obtain a copy of the rule, visit the SJVAPCD website at [www.valleyair.org](http://www.valleyair.org) or call (559) 230-5800.

## APPLICATION GUIDELINES

- ❖ Fill out the application completely and as accurately as possible. Do not leave any required fields blank, as it lengthens the processing timeframe associated with the application and delays funding. All fields are required unless otherwise indicated.
- ❖ A copy of the following items must be submitted in order for the application to be deemed **complete**:
  - Completed Application.
  - Completed Certifications section.
  - Completed Disclosure of Funds section.
  - IRS Form W-9.
  - Dated and itemized dealer quote and specification sheet for the new reduced-emission engine and eligible equipment.
  - If applicable, completed Third Party Information section.
  - For applicants who are municipalities, a copy of the Board Resolution which approves participation in the program.

Located in the **Application** packet (page 6) is a comprehensive detailed checklist of the above mentioned items. For guidance purposes, please refer to the checklist in the Application packet when submitting all required documents.

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## STEP-BY-STEP APPLICATION GUIDANCE

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This section outlines the information requirements for each field of the application. If you need additional assistance, please contact the Emission Reduction Incentive Program and a staff member will assist you.

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### SECTION 1 – APPLICANT INFORMATION

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#### ORGANIZATION INFORMATION

**1. Organization, Company, or Proprietor’s Name**

The legal name of the organization that will enter into agreement with the SJVAPCD. The information entered into Section 1 of the application must be **identical** to the information on Form W-9, as this information will be used to generate all binding documents and be used to report incentive funding to the IRS.

**1 - 5. Address**

The physical address where the organization is located, including: number and street name, city, state, and zip code.

**6 - 9. Mailing Address**

The mailing address used by the organization. If the physical and mailing addresses are the same, write “Same.” All correspondences generated by the SJVAPCD, including the agreement, checks, and annual reports, will be sent to the mailing address.

**10. Have you applied to any other grant programs for any engines in this project?**

Check whether additional grant funding was applied for any engines in this project other than grant funding through this program. If yes, please contact ERIP Staff at (559) 230-5800 before completing this application.

**11. Would you have scrapped your existing vehicle/equipment and purchased a replacement vehicle/equipment without funding from this program?**

Check whether you would you have scrapped your existing vehicle/equipment and purchased a replacement vehicle/equipment without funding from this program.

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### SECTION 2 – CONTACT INFORMATION

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#### PRIMARY CONTACT INFORMATION

**1. First and Last Name**

The first and last name of the person who will serve as the primary contact to the SJVAPCD throughout the full term of the agreement. All questions related to your project will go to this individual.

**2. Title**

The job title of the primary contact.

**3. Phone Number**

The main phone number, including area code, for the primary contact.

**4. Fax Number**

The fax number, including area code, for the primary contact.

**5. Alternate Contact Number**

The alternate phone number, including area code, where the primary contact can be reached.

**6. Email**

The email address of the primary contact.

**CONTRACT SIGNING AUTHORITY INFORMATION** (same as above)

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**SECTION 3 – EXISTING/OLD ENGINE ACTIVITY INFORMATION**

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**1. - 3. Engine Address**

The physical location (street address, city, and zip code; or major cross streets if an address does not exist) where the engine is currently installed.

**4. Well Site/Pump #**

Identify the engine by well site name or pump number if one has been assigned to it by your organization (i.e., Well #16, Southside Well, Pump #32N, etc.). If none has been assigned, write "N/A".

**5. Distance/Direction from Engine to Nearest Business**

Specify the distance from the engine site to the nearest business. Designate the business' location with respect to the engine site.

**6. Distance/Direction from Engine to Nearest Residence or School**

Specify the distance from the engine site to the nearest residence or school, whichever is closer. Designate the residence's or school's location with respect to the engine site.

**7. County of Operation**

Check in which county or counties the engine is being operated.

**8. Primary Function of Engine**

Check the primary function of the engine. If the engine is not used for crop irrigation, provide an explanation of its function.

**9. Engine Type**

Check the type of the engine: stationary deep well, trailer mounted deep well (transportable), stationary booster, trailer mounted booster (transportable), or other. If "Other" is checked, please provide an explanation.

**10. Annual Operation (in hours)**

Provide the annual operation of the engine in hours.

**11. Total Acreage of all Agricultural Operations in the San Joaquin Valley**

Your total acreage includes all acres that you own, lease, rent, and custom harvest.

**12. Percentage Use in SJVAPCD**

Provide the percentage of total annual hours of operation that occur within the SJVAPCD boundaries (see page 14).

**13. Percentage Use in California**

Provide the percentage of total annual hours of operation that occur within California.

**14. Date Engine was Originally Installed or Initially Operated at This Facility (this well/pump site)**

Fill in the month and year in which the current engine was originally installed or initially operated at the facility listed in Section 1 of the application.

**15. Is this engine operational?**

Check whether the engine is currently operational. Non-operational engines are ineligible for funding. The engine must be operational at the time of inspection.

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**SECTION 4 – EXISTING/OLD ENGINE INFORMATION**

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**1. - 2. Engine Make and Model**

Provide the make and model of the current engine. For example, Cummins (make) 6BTA5.9C (model).

**3. Model Year**

The year the current engine model was manufactured.

**4. Advertised Horsepower Rating**

The gross horsepower of the current engine.

**5. Engine Serial Number**

The serial number listed on the current engine. **Engines with unknown serial numbers are ineligible for funding.** If the engine data tag is missing/illegible or an identifiable serial number is not stamped on the engine block, then the engine is ineligible to participate in the program.

**6. US EPA Engine Family Name**

The engine family name assigned by EPA (if available). This information would typically be listed on the engine date plate or can be made available through your engine dealer. You may also visit CARB's website at <http://www.arb.ca.gov/msprog/offroad/cert/cert.php> to obtain the information. If this information is not available, write "N/A".

**7. Engine Tier**

Check the tier emission level of the current engine:

- a) Uncontrolled (Tier 0) **ineligible**
- b) Tier 1 **ineligible**



- c) Tier 2 *eligible on a case-by-case basis*
- d) Tier 3
- e) Tier 4 **ineligible**.

**8. Fuel Type**

Check the fuel type of the existing engine. Diesel, natural gas, and propane are eligible. Gasoline powered engines are ineligible for funding.

**9. SJVAPCD Facility ID / Permit Number**

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## **SECTION 5 – NEW REPLACEMENT MOTOR INFORMATION**

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### **NEW ELECTRIC MOTOR**

**1. - 2. Electric Motor Manufacturer and Model**

Provide the make and model of the electric motor. For example, US Motors (make) BF68 (model).

**3. Model Year**

The year the electric motor model was manufactured.

**4. Advertised Horsepower Rating**

The horsepower of the new electric engine.

**5. Motor Position**

Check the position of the new electric motor, horizontal or vertical.

**6. Total Cost of New Electric Motor Including Installation**

The total cost of the new electric motor and any additional eligible equipment. The total cost includes: new electric motor, additional eligible equipment (including service pole, pump panel, meter service etc), installation labor, and sales tax.

**7. Tax Rate**

Sales tax rate used in the quote for the new electric motor.

**8. Total Line Extension Cost**

Enter the total line extension cost, if applicable.

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## **SECTION 6 – NEW REPLACEMENT DEALER INFORMATION**

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### **DEALER**

**1. Electric Motor Dealership Name**

The name of the business where you will be purchasing the new electric motor associated with this project.

**2. - 5. Address**

The physical address where the electric motor dealer is located, including: number and street name, city, state, and zip code.

**6. Contact Name**

The first and last name of the person the SJVAPCD can contact regarding the purchase of the new electric motor.

**7. Phone Number**

The phone number, including area code, of the contact person.

**8. Fax Number**

The fax number, including area code, of the contact person.

**9. Email**

The email address of the contact person.

**INSTALLER** (complete only if different from electric motor dealer)

**10. Electric Motor Installer Name**

The name of the business that will be installing the new electric motor associated with this project, if different than the electric motor dealer information.

**11. - 14. Address**

The physical address where the electric motor installer is located, including: number and street name, city, state and zip code.

**15. Contact Name**

The first and last name of the person the SJVAPCD can contact regarding the installation of the new electric motor.

**16. Phone Number**

The phone number, including area code, of the contact person.

**17. Fax Number**

The fax number, including area code, of the contact person.

**18. Email**

The email address of the contact person.

**THIRD PARTY INFORMATION**

- ❖ This section must be completed if any part of the application was filled out on your behalf by a third party.

### MAP OF THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT BOUNDARIES

