

## VARIABLE FREQUENCY DRIVE (VFD)

### ***PROGRAM DESCRIPTION***

Eligibility: This Bonneville Power Administration (BPA) program is offered to Central Electric Cooperative (CEC) irrigation accounts that have an existing, electrically powered turbine style irrigation pump with substantial variation in flow rates (20% or more) and/or discharge pressure requirements (10% or more). Installations must meet IEEE 519 standards. The account must have at least two full years of “typical” energy use history prior to installation for evaluation purposes.

1. Determine that your irrigation system is eligible for the program.
2. Send a copy of the VFD bid proposal from your contractor, and this application, to CEC Irrigation Program, P.O. Box 846, Redmond, OR 97756 (fax 548-0366).
- 3. DO NOT BEGIN WORK, OR ORDER EQUIPMENT, UNTIL YOU HAVE RECEIVED A WRITTEN APPROVED APPLICATION FROM CEC.**
4. Once the application and proposal has been reviewed & approved, the application will be signed by a CEC representative and returned to you. You will schedule with your contractor when work will begin.
5. Your contractor will notify CEC when the work is complete. Once the job has been verified as correct and complete CEC will send the rebate check to the customer listed on the approved application.
6. You are responsible for making payment arrangements for any job costs not covered by the rebate amount.

**Rebate Amount:** \$80 per installed nameplate pump horsepower controlled by the VFD and approved by CEC. Note: BPA programs are subject to change without notice.

PO Box 846 2098 N. Hwy 97 Redmond, Oregon 97756-0187  
Tel: 541.548.2144 Fax: 541.548.0366  
[www.cec.coop](http://www.cec.coop)



# CENTRAL ELECTRIC COOPERATIVE, INC.

## VARIABLE FREQUENCY DRIVE (VFD) PROGRAM REBATE APPLICATION

1. Send a copy of the VFD proposal from your contractor and this application, to CEC Irrigation Program, P.O. Box 846, Redmond, OR 97756 (fax 548-0366).
2. DO NOT BEGIN WORK UNTIL YOU HAVE RECEIVED A WRITTEN APPROVAL FROM CEC.
3. Once the application and proposal have been reviewed and approved, the application will be signed by a CEC representative and returned to you. You will schedule with your contractor when work will begin.
4. Your contractor will notify CEC when the work is complete. Once the job has been verified as correct and complete, CEC will send the rebate to the applicant listed below. The maximum BPA rebate is \$80 per horsepower.

Owner Name (Please Print) \_\_\_\_\_ Date \_\_\_\_\_

Contact \_\_\_\_\_ Phone \_\_\_\_\_

Mailing Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Cell \_\_\_\_\_ email \_\_\_\_\_ Fax \_\_\_\_\_

### Project Information:

Irrigation account number: \_\_\_\_\_ Operational hours per year \_\_\_\_\_

Project site address, if different: Address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Type of crops grown \_\_\_\_\_ What is the pump hp? \_\_\_\_\_

How many acres are irrigated by this pump? \_\_\_\_\_

Reason for VFD:  Pump is oversized  Pump runs at a range of flow & pressure conditions

How is the pump controlled now:  Throttling valve/pressure regulators  Flow bypass

Type of turbine pump (e.g., well, booster) \_\_\_\_\_

Actual or rated pump total dynamic head (TDH) \_\_\_\_\_ and flow (GPM) \_\_\_\_\_

Maximum evaluation difference across the field in feet \_\_\_\_\_ Maximum flow changes in GPM \_\_\_\_\_

Estimated site savings in kWh from VFD software program \_\_\_\_\_ kWh/yr

Name and version of VFD spreadsheet software used to estimate kW savings:

Name \_\_\_\_\_ Version \_\_\_\_\_

- I, the undersigned, as the owner of the property at the above address, certify the information on this application is true and correct.
- I have read the CEC IRRIGATION PUMP VARIABLE FREQUENCY DRIVE (VFD) PROGRAM DESCRIPTION and I understand and agree to the provisions for the program. I understand that if these instructions are not followed, CEC is under no obligation to grant or disburse program funds.
- By executing this agreement, I waive any and all claims against CEC that may arise from the installation of said improvements.

Owner Signature \_\_\_\_\_ Date \_\_\_\_\_

**Note: This program is funded by the Bonneville Power Administration and is subject to change without notice.**

CEC Representative \_\_\_\_\_ Date \_\_\_\_\_