

**Central Valley Electric Cooperative, Inc.**  
**POLICY NO. 510**

**Variable Frequency Drives**  
**ENERGY EFFICIENCY PROGRAM**

**I. OBJECTIVE**

To promote energy efficient methods for motor and pump based systems using variable frequency drives (VFD).

**II. POLICY CONTENT**

Central Valley Electric Cooperative will offer members rebates for installing VFD's to control end-use pump and motor equipment/systems up to 200 horsepower (HP).

**III. PROVISIONS**

All installed VFD's, regardless of the HP, must meet or exceed the Institute of Electrical and Electronics Engineers standard on Harmonic Control & Limitations (IEEE 519) for electric power systems. A minimum of a 12 pulse variable frequency drive is required; filters may also be required to prevent harmonic issues. Motors other than irrigation must have assumed annual load factors of at least 50 percent. Should the use of a VFD create unacceptable levels of harmonic distortion, the member will be responsible for resolving the issue to a level acceptable by CVE.

Rebate equals \$100 per HP (up to 200 HP).

Rebates will be capped at \$75,000.00 annually for any one member. Members must apply for rebates within 60 days of VFD installation. Rebates will be issued within 30 days of approved application.

**IV. RULES & GUIDELINES**

- A signed application and detailed invoice(s) must be submitted to CVE within 90 days of the invoice date. Invoices(s) submitted must include itemized quantity, price, manufacturers' make and model number, equipment nameplate information of old equipment (retrofits), nameplate information of new VFD equipment, nameplate information of the motor and/or pump the VFD will be controlling, and VFD equipment specification sheets.
- VFDs must be installed and fully operational before a rebate can be issued.
- VFDs must be installed in accordance with all applicable local, state and national codes and ordinances.
- CVE is not liable for any damages caused by the operation or malfunction of the installed equipment.
- CVE will not rebate replacement VFD's for the same location in the event of failure of the VFD.
- CVE does not guarantee a specific level of energy or cost savings will result from the implementation of or use of products funded under this program.
- Rebates will be issued in the form of a check, not a utility bill credit.
- All VFD equipment must be new equipment. CVE will not rebate used equipment or duplicate a rebate for the same location.
- VFD's must be permanently installed. Temporary VFD's do not qualify.

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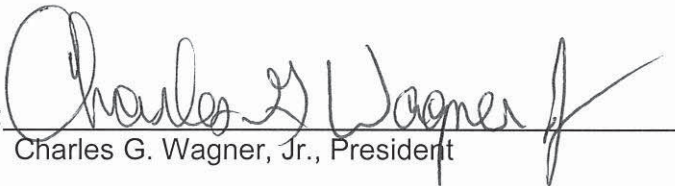
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**V. PROGRAM FUNDING**

Funding for this program will be from the Renewable Energy and Energy Conservation Fund. Should the Renewable Energy and Energy Conservation Fund become deficient in funds; the Variable Frequency Drive program will become inactive until such time funds are available.

**VI. RESPONSIBILITY**

The general manager is responsible for the administration of this policy.

Approved:   
Charles G. Wagner, Jr., President

Effective Date: 07/22/2015

Revision Date: 08/24/2016