VFD – *Variable Frequency Drive*

Add to an existing pump

- 7.5HP – 1,000 HP
- VFD being added to an agriculture pump
- Retrofit existing pump with new VFD
- Centrifugal or Turbine both qualify

- ☐ Copy of the invoice.
- ☐ Picture of the name plate on the pump.
- ☐ Copy of the pump curve.
- ☐ Member completes rebate application.
- ☐ Member &/or vendor together complete the questionnaire.
- ☐ Member must work with staking to verify the transformer is sized correctly and that harmonic requirements are met.

- VFD calculator will be completed by Energy Programs and submitted to BPA for approval.
- Rebate is $40 per HP.
- Rebate is sent as a check to the member once all needed paperwork is received and processed, and BPA approves the project.
- Buy local rebate of $50 if qualifies
- This is a BPA rebate.
- Save document before submitting

Please return forms to any OTEC office or email to eprteam@otec.coop with all the necessary documentation

Oregon Trail Electric Cooperative

Agriculture Rebate Application

Project Type Date

Project Address

Member SEP number (if known)

Mailing Address

Phone Email

Members Name

Property Owners Name (if different than above)

OTEC's energy efficiency program budget may be limited and is time sensitive; therefore, pre-approval of all projects is required. Energy efficiency (EE) projects must comply with the current BPA and/or OTEC standards. OTEC reserves the right to withdraw a project if not completed within 90 days of this signed agreement. Any deviation from program standards without written authorization from OTEC may invalidate the project and a member's qualification for the energy efficiency program. The member agrees to release OTEC and hold it harmless from any and all liability associated with the completed work or material installed or applied through an EE project. All energy savings results are assumptions and estimates from acceptable standards of installed material. OTEC is not responsible nor guarantees any stated or estimated energy savings from this program. The selection and use of acceptable and conforming material is the sole responsibility of the member and OTEC assumes no warranty of the service or material.

(qualified OTEC member), I certify that I have read and understand the OTEC program agreement and agree to abide by those requirements. I certify that to the best of my knowledge the information on this application is true and correct.

Authorized Members Signature Date

Here are a list of questions OTEC will need to process the VFD calculator required for BPA projects.

The rebate is estimated at $40 per horsepower. Please contact your local OTEC office with questions.

Irrigator contact: _____

Installer contact: _____

Estimated date of installation: _____

Irrigators address: _____

City: _____ State: _____

Zip: _____ Member Sep # (If known): _____

Meter #: _____ Irrigator Phone #: _____

Irrigator Email: _____

What is the size of the pump after installing the VFD: _____

Did you change the size of the pump - YES OR NO: _____

If yes what was the size of the pump before adding the VFD: _____

Type of Pump – Turbine or Centrifugal: _____

Pump Manufacturer: _____ Model: _____

Rated Head (or TDH) (nameplate or curve): _____ feet

Rated Flow (from nameplate or curve): _____ gpm

Pump Depth: _____ feet Estimated Lift: _____feet

Highest expected lift (or inlet pressure): _____feet

Lowest expected lift: _____feet

Discharge pressure Maximum lift: _____ psi gauge

Discharge pressure minimum lift: _____psi gauge

Highest Expected Flow _____ gpm Lowest Expected Flow _____ gpm

Does the system pressure get to high? _____

If yes, how is it controlled? (PRV, throttling, dumping) _____

Equipment Description

Main Pump – where VFD to be installed: _____ horsepower

Motor load factor: _____

Estimated Hours of operation per season: _____

Centrifugal booster pump – if any: _____ horsepower

Motor load factor: _____

Estimated Hours of operation per season: _____

Pivot 1 – how many towers: _____ How many HP each: _____

Motor load factor: _____

Estimated Hours of operation per season: _____

Pivot 2 – how many towers: _____ How many HP each: _____

Motor load factor: _____

Estimated Hours of operation per season: _____

Is there an end gun booster pump? Yes or No _____

If yes – which pivot: _____

If yes – how many HP: _____

If yes - Motor load factor: _____

Estimated Hours of operation per season: _____

Any other pivots: _____

If yes list out how many towers and how many HP each, motor load factor and estimated hours

(If your vfd is feeding a wheel line – include that information)

_____

_____

Crop data

1-year post installation of VFD if known – what crop(s) where grown: _____

How many acres of each type of crop: _____

What type of irrigation system: _____

Ie: pivot with drops, pivot with LESA/LEPA drop, wheel line, etc

If existing pump, please complete the 3 years pre-install information:

1-year pre installation of VFD – what crop(s) where grown: _____

How many acres of each type of crop: _____

What type of irrigation system: _____

Ie: pivot with drops, pivot with LESA/LEPA drop, wheel line, etc

2-year pre installation of VFD – what crop(s) where grown: _____

How many acres of each type of crop: _____

What type of irrigation system: _____

Ie: pivot with drops, pivot with LESA/LEPA drop, wheel line, etc

3-year pre installation of VFD – what crop(s) where grown: _____

How many acres of each type of crop: _____

What type of irrigation system: _____

Ie: pivot with drops, pivot with LESA/LEPA drop, wheel line, etc

Any other information: _____

_____

- We need rebate application, pump curve and invoice with this information to proceed