



# T.I.P. Rural Electric Cooperative

Your Touchstone Energy® Partner 

"Exhibit C"

## CT METERING FOR CHECKING ELECTRIC USAGE OF HEAT PUMPS

Direct or CT metering is a requirement to be able to receive a rebate on a Ground Water Source Heat Pump or Air to Air Heat Pump. T.I.P. will provide the junction box, CT, meter base and meter - if needed.

### For interior of house:

This could be rigid, PVC conduit, Greenfield or Metal

### Exterior of house:

-This must be  $1\frac{1}{2}$  -  $\frac{3}{4}$  inch conduit. We recommend rigid metal conduit, however a minimum of Schedule 40 plastic is acceptable. (we recommend  $\frac{3}{4}$  " conduit)

-Use one 8 ft. ground rod and #8 copper.

-Use #12 wire for meter base.

Meter height is  $5\frac{1}{2}$  feet.

Meter can be placed anywhere on exterior of the house as long as we can access it.

Use the Coop's 200:5 CT's for the metering which needs to be installed in the junction box that T.I.P. provides, but electrician installs.

Normal 5 terminal 100 amp base (Use color coded wires)

Blue and Black are voltage wires

Red and Green are CT wires

### Instructions:

-The red wire goes to the positive side of CT which is marked with a white mark or white square with X-1 printed inside the box.

-The green wire goes to opposite terminal and the ground strap must be open so the kWh's record properly.

-All wires that pass through the CT in the same direction must be the same 120 volts to register correctly.

-On a 240 volt system - each leg of 120 volts go through the CT from different sides.

