Errata

Please replace page 53 and 54 with the accompanying pages to reflect the correction to the reimbursement level misprint.

Scientific Irrigation Scheduling

Requirements and Specifications

BPA will provide credits or reimbursements to customers for Scientific Irrigation Scheduling (SIS). SIS projects must be submitted as CPs; a standardized M&V plan is available on the PTR Web site (i.e., SIS calculator).

SIS requires weekly hydro application data collection which includes all water applied, evapotranspiration needs and soil moisture tables. This measure only applies to agricultural systems for which there is pumping capacity above that needed to meet the normal needs of the crops.

A completion report, using the standard completion report tools, is required for the first year and is based on a field-by-field analysis using the standardized M&V algorithm. Subsequent yearly reporting will use a supplemental calculation template for measure claims to be based on the first year completion report.

Documentation Requirements (If any specifically required)

See the general documentation requirements in section 4.1.3.

Reimbursement Levels and Strategies

BPA will credit/reimburse the lesser of 15 cents per kWh or 70 percent of the SIS project cost of $25.50[1] per acre, for a three-year measure life, on a field-by-field basis.

Customer programs are unlikely to have the same crops, fields, farmers, or weather in each year. Therefore, the total reimbursement is based on the average annual energy savings over the three years of the contractual measure life, as opposed to a physical measure life.

Annual and biannual reporting: In each year, SIS CPs can be credited/reimbursed for one-third of the credit/reimbursement total (the lesser of $0.05/year/kWh or 70 percent of $8.50/acre/year). First year savings will be based on actual savings. Subsequent reports calculate an adjustment to the first year figure using an average of the current and previous years.

True-up: Across three years, the total payment is based on the average of annual savings; therefore, true-ups may be required at the end of the third year. True-up can take a few forms:

[1] The RTF determined that SIS is cost-effective with a TRC cost of $13.50/acre first-year cost with a $7.50/acre initial cost and $6/acre service cost, and $6.00 an acre for each of the next two years; and expected savings range from 80 kWh/acre - 125 kWh/acre, depending on the crop type, soil, climate and pumping lift. BPA has deemed the project costs at $25.50 per acre.

- If BPA has under-paid on reimbursements, the utility may claim a "true-up adjustment" at the end of the contract life and additional funds can be credited/reimbursed.
- If BPA has over-paid on reimbursements, then the utility can implement some SIS savings in a fourth year to increase the three year average of savings or take a negative report for credit on the CRC report, or repay CAA funds to BPA.

For any CP where the equipment has been ordered, purchased and installed prior to October 1, 2008 (the effective date of the higher reimbursement rate), the reimbursement rate in place at the time the project was approved by BPA will apply. Any CP that has been approved and equipment has been ordered, purchased or installed cannot be cancelled and resubmitted under the higher reimbursement rate.

Transformer De-energization

Requirements and Specifications

BPA will provide credits or reimbursements to customers for Transformer De-energization (TRX) in agricultural applications. TRX projects must be submitted as CPs; a standardized M&V plan is available on the PTR Web site.

TRX is defined as disconnecting a transformer from downstream load sources during extended periods of agricultural inactivity and reconnecting prior to the irrigation season startup. This measure applies to systems for which the transformers serve only an agricultural load and where the customer does not currently incorporate this practice. Upon request, the customer will provide documentation showing the number of transformers de-energized, length of outage period, and the energy savings associated with each unit.

A completion report, using standard completion report tools, is required for the first year. Subsequent yearly reporting will use a supplemental calculation template for measure claims to be based on the first year completion report.

Documentation Requirements (If any specifically required)

See the general documentation requirements in section 4.1.3.

Reimbursement Levels and Strategies

BPA will credit/reimburse the lesser of 15 cents per kWh or 70 percent of the incremental cost of performing the project for a three-year measure life.

TRX may not have the same fields or length of outage in each year. Therefore, the total reimbursement is based on the average annual energy