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Section 25. COGENERATION AND SMALL POWER PRODUCTION

25.1 Availability

This section shall apply to any qualifying alternate energy production facility within the Cooperative's assigned service area. An interconnection customer with electric generating equipment shall not connect it in parallel with the Cooperative's system without the prior consent of the Cooperative.

25.2 Definitions

Unless otherwise defined herein, terms used shall have the same meaning as defined in 199 IAC 45.1.

25.3 Requirements for Interconnection

All facilities shall comply with all of the Cooperative's requirements of general rules for electric service as well as the specific provisions of this section.

25.3.1 Acceptable Standards

- A. The interconnection customer shall comply with acceptable standards for interconnection, safety, and operating reliability. Acceptable standards include the most current revisions of the following in order to be eligible for interconnection to the Cooperative's electric system:
1. Standards for Interconnecting Distributed Resources with Electric Power Systems, ANSI/IEEE Standard 1547-2003
 2. Iowa Electrical Safety Code, as defined in 199 - Chapter 25.
 3. National Electrical Code, ANSI/NFPA 70-2008.
- B. The interconnection customer facility shall provide a switch with a visible break or opening. Both the operator of the qualifying facility and the Cooperative shall have access to the interconnection switch at all times.
- D. The interconnection customer will regularly inspect, maintain, and service the facility for safe and reliable operation.
- E. The interconnection customer shall indemnify and defend the Cooperative and its representatives against liability for any injuries or damages caused by the operation of the interconnection customer's equipment or by any failure of the interconnection customer to maintain such equipment in satisfactory or safe operating condition. The interconnection customer shall provide proof that they have a current homeowner insurance policy or other general liability policy.

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25.3.2 - Application Form and Interconnection Agreement

Customer Name : _____ Account No.: _____

Site Address: _____

Electrical Contractor: _____ Ph: _____

Description and metering point diagram: _____

Distributed Generation Facility Information

Generation Facility Nameplate Rating: _____(kW) _____(AC Volts)

Generation Type: Wind ____ Solar ____ Other _____

Expected Commissioning Test Date: _____

Identify type and location of disconnect switch: _____

Inverter Manufacturer: _____ Model: _____

Inverter is lab-certified as that term is defined in Iowa Utilities Board Chapter 45 rules on Electric Interconnection of Distributed Generation (199 IAC 45.1).

I hereby certify that: (1) I have read and understand the terms and conditions as outline in the Cooperatives tariff for cogeneration and small power production, and the Cooperatives **PRICE DESIGNATION for CONSUMER RENEWABLE ENERGY SALES** attached hereto by reference; (2) I hereby agree to comply with the attached terms and conditions; and (3) to the best of my knowledge, all of the information provided in this application request form is complete and true.

Applicant Signature: _____ Date: _____

.....
Acceptance for Interconnection (for cooperative use only)

Cooperative Signature: _____ Date: _____

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25.3.3 - Certificate of Completion

To be completed and returned to the Cooperative when installation is complete and final electric inspector approval has been obtained

Customer Name : _____ Account No.: _____

Installed By: _____

Check if owner-installed

The interconnection member-consumer shall carry general liability insurance coverage, such as, but not limited to, homeowner's insurance. They should also notify insurance company of additional property value for any potential property damage due to fire, wind or hail.

Final Electric Inspection

The distributed generation facility is complete and has been approved by the local electric inspector having jurisdiction on: Date _____

.....
Acceptance and Final Approval for Interconnection (for cooperative use only)

The interconnection agreement is approved and the distributed generation facility is approved for interconnected operation upon the signing and return of this Certificate of Completion by Cooperative:

Witness Test? (Initial) Yes (_____) No (_____) _____

Cooperative Signature: _____ Date: _____

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Section 25 COGENERATION & SMALL POWER
PRODUCTION

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_ FIRST _ Revised
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25.4 Prices

25.4.1 Prices for purchases by the member-consumer from the Cooperative

The member-consumer shall purchase electric power and energy from the Cooperative at the Cooperative's applicable price or rate, depending upon the member-consumer's operations and requirements.

25.4.2 Prices for purchases by the Cooperative from the interconnection customer

The Cooperative shall only provide and purchase energy under a Buy All - Sell All agreement for site based Alternate Energy Production Facilities (AEPF) owned by member-consumers.

Alternate energy production facilities with design capacity of 50 kW or less

Payment for purchases from the member-consumer shall be pursuant to tariff sheets F and G in Section 28 Prices.

Alternate energy production facilities greater than 50 kW

Payment for purchases from qualifying AEPF (as defined above) and with a design capacity above 50 kilowatts are available on a negotiated case-by-case basis with the Cooperative.

25.4.3 Renewable energy credits from the interconnection customer

Unless otherwise agreed to the Cooperative retains the right to all renewable energy credits from all AEPF that are receiving any of the Cooperative's incentive rates. These credits shall be resold through the Cooperative's Alternate Energy Purchase Program.

A qualifying AEPF that chooses to retain renewable energy credits shall be eligible to receive energy pricing equal to the Cooperative's avoided energy costs.

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Section 28 PRICES

PRICE DESIGNATION - A - Single Phase Service

Availability:

Applicable to all consumers in the Company's entire service area requiring 100 KVA or less of transformer capacity, subject to the established Rules and Regulations covering this type of service.

Type of Service:

Single-Phase, 60 cycles, 120/240 volts.

Rate per Month:

Facilities Charge - \$17.50

Energy Charge:

First 800 KWH @ \$0.125 per KWH

All other KWH @ \$0.115 per KWH

Electric Cost Adjustment: See Rider No. 1

Tax: See Rider No. 2

Renewable Energy: See Rider No. 3

Load Management Credit: \$4.00 per month

Minimum Monthly Charge: The minimum monthly charge is the facilities charge.

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PRICE DESIGNATION - B - Three Phase Rate

Availability:

Applicable to all consumers, located along the cooperatives three-phase distribution lines, for three-phase use, requiring 100 KVA or less of transformer capacity, subject to the established rules and regulations of the cooperative covering this type of service.

Type of Service:

Three-phase, 60 cycles, voltages to be determined by the needs of the consumer according to the established Rules and Regulations of the Company.

Rate per Month:

Facilities Charge - \$35.00

Energy Charge:

First 800 KWH @ \$0.126 per KWH
All other KWH @ \$0.108 per KWH

Electric Cost Adjustment: See Rider No. 1

Tax: See Rider No. 2

Renewable Energy: See Rider No. 3

Load Management Credit: \$4.00 per month

Minimum Monthly Charge: The minimum monthly charge is the facilities charge.

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PRICE DESIGNATION - C - Large Power Rate

Availability:

Applicable to all consumers for single and three-phase use, requiring over 100 KVA of transformer capacity, subject to the established rules and regulations of the cooperative covering this type of service.

Type of Service:

Single or three-phase, 60 cycles, voltage to be determined by the needs of the consumer according to the established Rules and Regulations of the Company.

Rate per Month:

Facilities Charge -	\$100.00
Demand Charges	
Per KW of Demand	\$15.70

Energy Charge:

All KWH	\$0.063
---------	---------

Electric Cost Adjustment: See Rider No. 1

Tax: See Rider No. 2

Renewable Energy: See Rider No. 3

Determination of Billing Demand: The billing demand to be used for billing purposes each month shall be the maximum integrated KW demand recorded by the standard meter during any fifteen (15) minute interval in the billing month. In no month shall the monthly billing demand be less than 50 KW, or less than 75% of the highest billing demand during the previous eleven (11) months.

Primary Voltage Provision: Where customer takes service at a primary voltage level so that the metering does not measure any distribution transformer losses the Kilowatt hour readings shall be credited 2% before the rate is applied.

Power Factor: The billing demand will be increased by one percent (1%) for each one percent (1%) customer's power factor is below 95%, as measured by periodic test or by permanent meters.

Minimum Monthly Charge: The minimum monthly charge is the facilities plus demand charges.

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PRICE DESIGNATION - D - Space Heating Rate

Availability:

Applicable to all consumers in the Cooperative's entire service area for space heating, where consumer's demand coincident with Cooperative's monthly system peak does not exceed 200kW, and where electricity is the main or principal source of energy for space heating, and where such service is supplied through a separate meter.

Type of Service:

Single or Three-phase, 60 cycles at available Secondary voltages.

Rate per Month:

Facilities Charge - None

Energy Charge:

	Summer	Winter
1 st 800 KWH	\$0.125	\$0.0725
All other	\$0.115	\$0.0725

Summer includes the months of June, July, August, and September.

Winter includes all the remaining months.

Electric Cost Adjustment: See Rider No. 1

Tax: See Rider No. 2

Renewable Energy: See Rider No. 3

Minimum Monthly Charge: None

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PRICE DESIGNATION - E - Security Lights - Rates for metered and un-metered lights.

Un-Metered:

**PRICE DESIGNATION: Schedule S1 – Un-metered Security Lights
Schedule S2 – Metered Security Lights**

Availability:

Available to all consumers in the Company's entire service area.

Type of Service:

120/240 volts. Includes lamp, photo control and fixture and optional un-metered electric supply.

Rate:

S1 - 100 Watt High Pressure Sodium (HPS) un-metered security light \$8.00 / month.

S2 - 100 Watt High Pressure Sodium (HPS) metered security light \$5.50 / month.

S1L - LED un-metered security light \$8.00 / month.

S2L - LED metered security light \$5.50 / month.

Minimum Monthly Charge:

Equal to monthly charge per light.

Tax: See Rider No. 2

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PRICE DESIGNATION - F - CONSUMER RENEWABLE ENERGY SALES

Billing Rate Code: 1S1 (block incentive input rate)

Availability:

Applicable to any qualified interconnected alternate energy production facility in the Cooperative's entire service area requiring 50 KVA or less of transformer capacity, subject to the established Rules and Regulations covering this type of service.

A separate utility meter at service grid-tie point is required for qualified alternate energy production facility.

Type of Service:

Single-Phase, 60 cycles, 120/240 volts.

Energy Credit: Monthly generated (G) KWH tracks monthly delivered (D) KWH in rate calculations. First block Incentive (I%) is calculated as a percent of delivered kWhrs.

$$I\% = .25$$

$$\begin{aligned} &\text{First block } I\% \times \text{monthly KWH} && \$0.20 \text{ per KWH} \\ &\text{KWH} = \text{IF } G > (D * I\%) \text{ THEN } (D * I\%) \text{ ELSE } G \end{aligned}$$

$$\begin{aligned} &\text{Second block monthly KWH} && \$0.125 \text{ per KWH} \\ &\text{KWH} = \text{IF } G \leq (D * (1 - I\%)) \text{ THEN } G - \text{First_block} \\ &\text{ELSE IF } G > (D - (D * I\%)) \text{ THEN } (D - (D * I\%)) \text{ ELSE } (G - (D * I\%)) \end{aligned}$$

$$\begin{aligned} &\text{All other KWH} && \$0.06 \text{ per KWH} \\ &\text{KWH} = \text{IF } G > D \text{ THEN } (G - \text{First_block} - \text{Second_block}) \text{ ELSE } 0 \end{aligned}$$

This rate shall be the minimum rate guaranteed for 10 years from the date of installation of qualified alternate energy production facility.

Electric Cost Adjustment: None

Tax: None

Renewable Energy: See Rider No. 3

Monthly Credits: The monthly credits are used to offset account charges and will carry forward monthly with any remaining account credit paid at calendar year end.

Minimum Monthly Charge: Minimum participation in the Alternate Energy Purchase Program is required to receive 1S1 rate.

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Electric Tariff
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PRICE DESIGNATION - G - CONSUMER RENEWABLE ENERGY SALES

Billing Rate Code: 2S (Community Solar Garden incentive input rate)
2S1 (flat incentive input rate)

Availability:

Applicable to any qualified interconnected alternate energy production facility in the Cooperative's entire service area requiring 50 KVA or less of transformer capacity, subject to the established Rules and Regulations covering this type of service.

A separate utility meter at service meter grid-tie point is required for qualified alternate energy production facility.

Type of Service:

Single-Phase, 60 cycles, 120/240 volts.

Energy Credit: Monthly generated (G) KWH tracks monthly delivered (D) KWH in rate calculations.

monthly KWH \$0.125 per KWH (2S1) (2S)
KWH = IF G >= D THEN D ELSE G

All other KWH \$0.06 per KWH (2S1)
KWH = IF G > D THEN (G - D) ELSE 0

This rate shall be the minimum rate guaranteed for 10 years from the date of installation of qualified alternate energy production facility.

Electric Cost Adjustment: None

Tax: None

Renewable Energy: See Rider No. 3

Monthly Credits: The monthly credits are used to offset account charges and will carry forward monthly with any remaining account credit paid at calendar year end.

Minimum Monthly Charge: Minimum participation in the Alternate Energy Purchase Program is required to receive 2S1 rate

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28.1 Electric Cost Adjustment Clause - Rider No. 1

Applicable to all rates:

The electric cost adjustment (ECA) charge is the Cooperative's monthly pass-through of actual monthly cost of electric supply per kilowatt hour from purchases and self-generation, plus up to \$ 0.0050/kWh for energy efficiency and conservation, and reliability reserve fund.

$$ECA = C/S - B + R$$

ECA is the monthly Electric Cost Adjustment charge to be used for each customer billing cycle rounded on a consistent basis to either the nearest \$0.01/KWH or \$0.001/KWH.

C is the monthly cost of purchased and generated electric supply.

S is the Cooperative's monthly retail sales in KWH.

B is the Cooperative's Base electric supply cost, currently = \$0.0725/KWH.

R is the Cooperative's monthly \$/kWh contribution to its energy efficiency and conservation, and reliability reserve fund. $R = \$ 0.005$ if $(C/S - B)$ is less than negative \$ -0.005, otherwise $R = 0$

The Board of Directors reserves the right to approve the use of a monthly average ECA using the above calculation as a fixed variable for every month in the current years billing cycle based on the previous years monthly averages.

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28.2 Electric Tax Adjustment - Rider No. 2

Applicable: To All Electric Prices, Charges and Fees

Adjustment: When any franchise, occupation, sales, license, excise, privilege or similar tax or fee of any kind is imposed upon the Cooperative by any governmental authority based upon (I) the sale of electric service to customers, (II) the amounts of electric energy sold to customers, (III) the gross receipts, net receipts, or revenues to the Cooperative there from, or when the Cooperative is required pursuant to pre-existing agreements to provide service without charge, such tax or fee or value of service shall, insofar as practical, be charged on a pro rate basis to all customers receiving electric service from the Cooperative within the boundaries of such taxing authority. Any such charge shall continue in effect only for the duration of such tax, assessment, or service period.

Iowa Sales Tax: A state sales tax, as set forth in Section 422.43 of the Iowa Code, shall be applied to all billings for electric service, unless excepted under the provisions of Section 422.45, Iowa Code, and regulations applicable thereto.

Local Option Sales Tax: Where a local option tax, as set forth in Section 422B of the Iowa Code, has been imposed in a county, it shall be applied to all billings for electric service to customers within the designated area(s) of application, except where such billings are subject to a franchise or user fee and therefore exempt under Rule 701-107.9 of the Iowa Admin. Code.

School Infrastructure Local Option Tax: Where a school infrastructure local option tax, as set forth in Section 422E of the Iowa Code, has been imposed in a county, it shall be applied to all billings for electric service to customers within the county, except where such billings are subject to a franchise or user fee and therefore exempt under Rule 701 –107.9 of the Iowa Admin. Code.

Franchise Requirements: A franchise tax, as set forth in any franchise documents, shall be applied to all billings for electric service in the applicable jurisdictions.

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29 RENEWABLE ENERGY - Rider No. 3

29.1 ALTERNATE ENERGY PURCHASE PROGRAM

Statement of Purpose

Iowa Code §476.47 requires electric utilities to offer an alternate energy purchase program to customers beginning January 1, 2004. By Order issued August 29, 2003 in Docket No. RMU-03-8, the Iowa Utilities Board ("Board") adopted rules regarding said Alternate Energy Purchase Programs. Said rules require each electric utility, whether or not subject to rate regulation by the Board, to offer an alternate energy purchase program that allows customers to contribute voluntarily to the development of alternate energy in Iowa. An alternate energy purchase program is defined in the rules as a program that allows customers to contribute voluntarily to the development of alternate energy in Iowa. This Tariff offering is designed to comply with said rules and to permit the customers of Farmers Electric Cooperative to make contributions that will be utilized to assist in the development of alternate energy in Iowa.

Program Description

Farmers Electric Cooperative (FEC) will periodically notify all of its Customers of this Alternate Energy Purchase Program tariff. The following notice to each electric Customer will be made by bill insert:

“Any individual Customer of Farmers Electric Cooperative (FEC) may contribute an amount in increments of \$3.00 to promote our Green Power purchases. Customer contributions shall be included with monthly payments for electric service. A Customer shall designate their desire to participate on forms provided by FEC. FEC will utilize the contributed funds to purchase or generate Green Power, invest in Green Power projects, or contribute to the Iowa Energy Center or other Iowa organizations involved in Green Power development.”

Customers who make Green Power contributions may not directly receive Green Power as part of their electric service from FEC, but will be supporting electricity generated from environmentally renewable fuel sources. Customers will be billed for total metered kWh deliveries under the normal applicable rate schedule.

Subject to operation or economic constraints, FEC may utilize contributions in total or in part to purchase or generate renewable energy.

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Program Effective Date

This program shall become effective on January 1, 2009, and the January billing will include a form for customers to specify their intent to participate in the purchase of Green Power.

Eligibility

All customers in all customer classes shall be eligible to participate in this program.

Forms

The form on which Customers are to designate Green Power contributions is:

Yes, I would like to support renewable energy through Farmers Electric Cooperative.

I agree to allow Farmers Electric Cooperative to add \$3.00 to my monthly utility bill for Green Power purchases. I understand that my commitment is for one year and will continue on an annual basis until I provide notification to end my participation in the program.

Customer information

Name _____

Address _____

Farmers Electric Account # _____

Customer signature _____

Date _____

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