

**WISCONSIN ELECTRIC POWER COMPANY**

Volume 19 – Electric Rates

Revision 0 Sheet 72  
Amendment No. 652  
Rate Schedule Cp 1R

Effective In All Areas Served In Wisconsin

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**GENERAL PRIMARY SERVICE -- EXPERIMENTAL REAL TIME PRICING**

PILOT DESIGN

This experimental rate is available to Wisconsin Electric’s customers who meet the specified criteria on a signed contract first come, first served basis. The maximum total demand for the pilot (based on average monthly on-peak demand) is:

Phase 1 (1996)	100,000 kW
Phase 2 (1997)	200,000 kW
Phase 3 (1998)	300,000 kW

The contract time period for each phase of the pilot is one year. The contract may be renewed after one year or the customer will be required to return to complete their prior Wisconsin Electric rate contract, provided the rate is still available.

Based on the results of on-going analysis, Wisconsin Electric reserves the right to cancel and/or redesign Phase 2 and/or Phase 3 of this pilot prior to January 1 of the indicated year.

Participants will start on the real time pricing pilot after March 1, 1996, at the start of the billing period after a contract is signed and price communication software is installed and functioning.

AVAILABILITY

For customers contracting for three-phase, 60 hertz power service at approximately 3,810 volts or higher for periods of one year or more. The Company reserves the right to restrict participation under this experimental tariff to a maximum of three customers per two digit SIC code grouping, with each participating customer limited to a maximum of two accounts, in Phase 1 of the pilot. Each customer account must have an average monthly on-peak measured demand greater than or equal to 500 kW and less than or equal to 10,000 kW in Phase 1 and 2 of the pilot. Customers may choose a non-firm service option. Non-firm service will require customer to curtail load for capacity reasons only.

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**GENERAL PRIMARY SERVICE – EXPERIMENTAL REAL TIME PRICING**

(Continued from Sheet No. 72)

RATE SUMMARY

<u>Facilities Charge</u>	\$23.01370 per day		
<u>Access Fee</u>	<u>For Service at Primary Voltages</u>		
	Equal to	Greater than	Equal to or
	Less than	12,470 volts	Greater than
	<u>12,470 volts</u>	and Less than	<u>138,000 volts</u>
		<u>138,000 volts</u>	<u>138,000 volts</u>
Per monthly contracted Access Demand Adjusted for power factor	\$11.054	\$10.882	\$10.736
Per monthly contracted Access Customer Maximum Demand, not adjusted for power factor	\$1.02300	\$1.00700	\$0.00000

**R**

A non-firm credit is available for those customers participating in the real time price non-firm option. See Sheet No. 51.6 for details.

For Determination of Contracted Access Demand See Sheet Nos. 74 and 75

Energy Charge      The energy charge is a per kWh charge based on the hourly energy prices provided by the Company during the billing period and the participants hourly consumption.

Point Beach Sale Credit

See Sheet No. 20.2

MINIMUM CHARGE

The monthly minimum charge shall be the facilities charge plus the Access Fees.

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**GENERAL PRIMARY SERVICE -- EXPERIMENTAL REAL TIME PRICING**

(Continued from Sheet No. 73)

LATE PAYMENT CHARGE

A one percent (1%) per month late payment charge will be applied to outstanding charges past due.

DETERMINATION OF CONTRACTED ACCESS DEMAND/CUSTOMER MAXIMUM DEMAND

The contracted Access Demand will be based on the customer's previous twelve month on-peak measured demand. The contracted Access Customer Maximum Demand shall be the maximum measured demand not adjusted for power factor which occurs during either on or off-peak period in the previous twelve months. The Public Service Commission of Wisconsin (PSCW) in Phase 1 and Phase 2, will be notified in those instances where the contracted Access Demand or the contracted Access Customer Maximum Demand is below the previous twelve months historical demands.

If a customer new to Wisconsin Electric's service territory desires to participate, the customer's contracted Access Demand and Access Customer Maximum Demand will be determined based on information provided by the customer, previous usage at another location and/or usage by a customer with similar characteristics. Contracted Access Demand and contracted Access Customer Maximum Demand for customers new to Wisconsin Electric's service territory for Phase 1 and Phase 2 will be reviewed and reconciled after the first three months of the contract. The remainder of the contract will be adjusted based on the review of actual usage. This process will be repeated three months later.

The customer's contracted Access Demand will be adjusted for power factor based on the customer's actual maximum on-peak measured demand for the billing period.

Measured demand shall be the average rate at which energy is used for a period of 15 consecutive minutes as ascertained by a watt-hour meter and an associated electronic recorder or other standard measuring device.

Measured on-peak demand (used to calculate the Access Demand Fee) shall be the maximum measured demand established during on-peak hours within the billing period. On-peak hours shall be either from 8:00 a.m. to 8:00 p.m. or from 10:00 a.m. to 10:00 p.m., as selected by the customer, prevailing time, Monday through Friday, excluding those days designated as legal holidays for New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day.

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**GENERAL PRIMARY SERVICE – EXPERIMENTAL REAL TIME PRICING**

(Continued from Sheet No. 74)

Power Factor Adjustment

The peak power factor shall be calculated from the kilowatt hours “A”, as obtained from the watt-hour meter, and the use of lagging kilovolt-ampere reactive hours “B”, as obtained from a ratcheted reactive component meter, which are used during the same 15 minute period in which the maximum measured demand occurs by the following formula:

$$\text{Peak power factor} = A \text{ divided by square root of } (A^2 + B^2)$$

The Access Fee is based on a standard power factor of 85 percent.

- (a) For power factors at 85%

No adjustment to the Contracted Access Demand

- (b) For power factors below 85%

Make the following adjustment:

$$(\text{Contracted Access Demand}) [ 1 + (0.65)(0.85 - \text{peak power factor}) ]$$

- (c) For power factors above 85%

Make the following adjustment:

$$(\text{Contracted Access Demand}) [ 1 - (0.5) (\text{peak power factor} - 0.85) ]$$

ENERGY PRICE SPECIAL PROVISIONS

The energy calculation for this real time pricing rate will include the following components: hourly marginal energy cost, loss factors for capacity and energy, hourly generation marginal capacity cost based on loss of load probability, variable factor, gross revenue tax and a risk factor for plant availability. Wisconsin Electric will make hourly prices available to participating customers by 4:00 p.m. applicable for the following day. Normally the prices for Saturday through Monday will be available on the preceding Friday. Multiple day-ahead

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**GENERAL PRIMARY SERVICE – EXPERIMENTAL REAL TIME PRICING**

(Continued from Sheet No. 75)

ENERGY PRICE SPECIAL PROVISIONS

pricing may also be used for previously defined holidays. Wisconsin Electric reserves the right to update prices on a one-day-ahead basis, even if those prices had been previously provided.

Wisconsin Electric is not responsible for a participant's failure to receive and act upon the hourly energy prices. If a participant does not receive these prices, it is the participant's responsibility to inform the Company so that the prices may be supplied.

NON-FIRM OPTION

Availability

For customers with a minimum of 500 kilowatts of capacity curtailable load per account. If the non-firm load is on isolated and separately metered circuits, it will be treated as a separate service to the customer.

Curtailable Demand

The customer's capacity Curtailable Demand will be the difference between the customer's contracted Access Demand adjusted for power factor and the customer's firm demand level for the billing period. Non-firm service under this rate may be refused if the Company believes the load to be curtailed will not provide adequate load reduction when the Company desires capacity curtailment. The Company will notify the customer of the Company's refusal to provide non-firm real time pricing service and the Company will inform the customer of the customer's right to ask for a PSCW review of the Company's refusal of service.

If the customer's capacity Curtailable Demand is less than 500 kW per account for any three months of a consecutive twelve month period, the Company may suspend service under the non-firm real time price option and thereafter serve the customer under the firm service real time pricing option.

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**GENERAL PRIMARY SERVICE – EXPERIMENTAL REAL TIME PRICING**

(Continued from Sheet No. 76)

Non-Firm Credit

The non-firm credit will be calculated as follows:

$A (B - C) = \text{Monthly Real Time Pricing Non-Firm Credit}$

A = Value of kW (January through May and October through December equals \$1.00/kW  
June through September equals \$2.50)

B = Monthly Contracted Access Demand, adjusted for Power Factor

C = Firm Demand Level kW

Firm Demand Level

Customers selecting this non-firm option must enter into a contract that specifies a firm demand level. The customer may renominate a firm demand level once during a calendar year subject to approval of the Company. Within one hour of being notified to curtail for capacity reasons by the Company, the customer must reduce demand to the firm demand level, and remain at or below the firm demand level until the customer is notified that the capacity curtailment period has ended.

Non-Firm Service Conditions

Service under the real time pricing non-firm option shall be subject to capacity curtailment at the sole discretion of the Company. There will be no more than 150 hours of capacity curtailment in any calendar year. Brief periods of capacity curtailment (periods less than four hours duration) shall be regarded as having lasted four hours, for purposes of limiting the total annual hours to 150. Interruptions due to lightning, wind, and other physical causes other than intentional capacity curtailment by the Company shall not be considered in determining the hours of non-firm service.

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**GENERAL PRIMARY SERVICE – EXPERIMENTAL REAL TIME PRICING**

(Continued from Sheet No. 77)

CONDITIONS OF DELIVERY

- (1) A customer must execute a contract to take service under this rate schedule for a one year period which specifies that the customer will notify the Company at least 30 days before the period ends of whether the customer will continue under this rate schedule or be served under another of the Company's applicable rate schedules. For those customers previously served under one of the Company's non-firm rate schedules requiring a five year contract, who prematurely terminate said contract in order to participate in the real time pricing pilot, will be required to return to their previous rate schedule if it is still open. If the customer returns to take service under a non-firm rate schedule, their non-firm load must be the same or greater than as stated in their original non-firm contract with the Company. The contract will contain a provision, which absent notice, will automatically extend the contract for one year from each anniversary date. Based on the results of on-going analysis the Company reserves the right to cancel and/or redesign Phase 2 and/or Phase 3 of this pilot prior to January 1 of the indicated year as stated above.
- (2) If the customer terminates the contract described in No. 1 above, prior to the date of termination as set forth in said contract, the customer will pay to the Company a cancellation charge of \$1,000. For those customers served under the non-firm option, the cancellation charge shall be the sum of the curtailable credits as shown on the customer's bill for the most recent twelve months or \$1,000, whichever is greater.
- (3) Participants for the firm real time pricing pilot will provide and maintain their own analog telephone line, modem and a computer that can reliably operate the software (provided by Wisconsin Electric) for receipt of hourly prices. Participants on the non-firm real time pricing pilot will be provided with a computer, modem and alarm equipment for notification of capacity curtailments, but most provide their own analog telephone line.

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**GENERAL PRIMARY SERVICE – EXPERIMENTAL REAL TIME PRICING**

(Continued from Sheet No. 78)

CONDITIONS OF DELIVERY (continued)

- (4) The Company will furnish three-phase 60 hertz power service at its most conveniently available primary voltage but in no case less than approximately 3,810 volts at some one convenient point on the premises of the customer nearest the lines of the Company. The supply voltage will depend upon the location of the customer and the size and characteristics of the load. At the option of the Company, a customer receiving service under this rate at more than one voltage on the same premises may be billed on a conjunctive basis if the customer was required to change voltage due to limitations of the Company's distribution system. If the customer elects to serve additional load at a higher voltage and the Company has distribution facilities at the existing voltage adequate to serve the additional load, then the Company shall bill the customer separately at each voltage.
- (5) Service under this rate is primarily for customers who use it in manufacturing and industrial operations. Any customer receiving service under this rate who requires lighting regulation shall furnish, install, operate and maintain the necessary regulating equipment at his expense.
- (6) The customer shall, at their expense, install all apparatus and materials necessary for the proper utilization of the power furnished by the Company. All such apparatus shall conform to the Company's rules and regulations pertaining to primary substation installation and shall at all times be kept suitable for operation by the power furnished.
- (7) If the customer's off-peak demand exceeds the on-peak demand or if the customer's total demand exceeds the access fees demand to the extent that the installation of additional facilities are required, then the customer shall pay for such additional facilities.
- (8) Should the customer, because of fire, strike, demonstrations, casualties, civil or military authority, insurrection or riot, the actions of the elements, or any other like causes beyond his control, be prevented from utilizing the power

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**WISCONSIN ELECTRIC POWER COMPANY**

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**GENERAL PRIMARY SERVICE -- EXPERIMENTAL REAL TIME PRICING**

(Continued from Sheet No. 79)

CONDITIONS OF DELIVERY

- (8 Cont.) service contracted for, the Company will waive the monthly Access Fees for such period; provided, however, that the period of time of such suspension of use of power shall be added to the period of the contract; and further; provided that the customer notifies the Company in writing within six days of his inability to use said power service, specifying the reasons therefor.
- (9) The Company shall use reasonable diligence in furnishing an uninterrupted and regular supply of power, but it shall not be liable for interruptions, deficiencies, or imperfections in service.
- (10) Service under this rate shall be furnished only in accordance with the Electric Service Rules and Regulations of the Company.
- (11) Energy furnished under this rate shall not be resold, except as provided in the Electric Service Rules and Regulations of the Company.
- (12) The Company shall not be required to provide service as standby for other types of energy or fuel.
- (13) The Company shall have the right at any reasonable time to enter the customer's premises for the purpose of installation, inspection, repair, replacement or removal of software, computers, modems, printers, alarm equipment and/or any other equipment provided by the Company for this rate. The customer shall bear all risk of loss, damage, theft, or destruction of such equipment.
- (14) Title to such equipment provided by the Company shall remain in the Company and such equipment shall not become a part of the realty or a fixture, but at all times shall be and remain in the personal property of the Company regardless of the manner of installation in or attachment to the premises. The Company shall have the right, but not the obligation, to remove such equipment if the customer is no longer served under this rate.

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**WISCONSIN ELECTRIC POWER COMPANY**

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**GENERAL PRIMARY SERVICE -- EXPERIMENTAL - REAL TIME PRICING**

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CONDITIONS OF DELIVERY

Additional Conditions of Delivery for those Customers

Choosing the Non-firm Option of this Real Time Pricing Rate

- (15) The customer shall, at its expense, install all apparatus and materials necessary for the measurement of the curtailment of load for capacity reasons. The customer's circuits are to be arranged so that none of the curtailable load can be transferred to service furnished under any other rate.
- (16) The customer shall be charged a penalty for each occurrence in which the customer fails to curtail load during a period of capacity curtailment. The penalty shall be fifteen dollars (\$15) per kilowatt of maximum measured demand recorded during the capacity curtailment period which is above the customer's Firm Demand Level, for up to two failures while participating in this rate option. Beginning with the third failure to curtail during a capacity curtailment and for all failures after that while continuing to participate in this option, the penalty shall be thirty-five (\$35) per kilowatt of maximum measured demand recorded during the capacity curtailment period which is above the customer's Firm Demand Level. The Company may suspend service under this rate and thereafter serve the customer under the appropriate rate if the customer fails to interrupt service twice in any consecutive twelve month time period.
- (17) The customer shall pay in advance of construction all costs estimated by the Company for facilities to serve the curtailable load.
- (18) The Company shall not be liable for any damages sustained by customers because of interruptions, deficiencies, or imperfections of electric service provided under this rate.
- (19) Curtailable service shall not be used as standby for any other forms of energy or fuel. Customers with their own generating equipment shall be required to separately meter such equipment or demonstrate the separation of curtailable loads from the generation output.

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