

# Interstate Power and Light Company

## ELECTRIC TARIFF

Filed with the I.U.C.

Fourth Revised Sheet No. 49

### ORIGINAL TARIFF NO. 1

Canceling Substitute Third Revised Sheet No. 49

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## Cogeneration & Small Power Production

Rate Code CSPP

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### Availability:

To any Customer taking service under one of Company's standard electric rate schedules and who has entered into an Electric Service Agreement with Company for the interconnection and operation of on-site extended parallel distributed generation systems with a capacity of 100 kilowatts (kW) or less. The Qualifying Facility (QF) is a cogeneration facility or a small power production facility under 18 CFR Part 292, Subpart B. Service will be contracted for a minimum period of twelve months. Service hereunder is also subject to Company's Rules and Regulations.

### Character of Service:

Regarding the character of electric service provided to Company by the QF see Section 16 of the Rules and Regulations. The interconnection and operation of Customer's distributed generation systems at each point of common coupling shall be considered as a separate application of the Rider. Service hereunder is subject to Company's interconnection process for distributed generation systems. All provisions of the applicable standard service schedule shall apply to distributed generation systems service under this Rider except as noted below.

### Rules and Regulations:

Service hereunder is subject to the provisions of the Company's Electric Service Rules & Regulations and shall be available from Company at the rates and under the terms and conditions set forth in the currently applicable federal and/or state schedule, tariff or rider, or other superseding schedule, tariff or rider in effect from time to time. Such service shall include any additional services provided by Company under any revisions, amendments or other federal and/or state schedule, tariff or rider.

### Definition of Peak Periods:

On-Peak: 2 p.m. to 7 p.m. CST, Monday through Friday during the summer period, excluding Independence Day.

Off-Peak: All other hours

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### Season Definition:

Summer – June 1 through August 31

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Customer billing or payment will be net of interconnection sales and purchases as separately stated.

### Rates and Charges:

I. Interconnection Costs:

Interconnection costs will be as described in the Iowa Administrative Code (IAC) 199 – Chapter 45.

II. Rates for Sales to Customer:

Power and energy delivered to the Customer at the same location shall be billed on the appropriate retail rate schedule for the class of Customer served where such rate schedule is the one for which Customer qualifies without consideration of the Qualifying Facility. All sales of electric service to Customer by Company shall be separately metered.

III. Rates for Purchase by Company:

Customer may sell all of the energy produced by its distributed generation system to the Company or use all or a portion of the distributed energy to meet its own electric requirements. All purchases of electricity by Company from Customer shall be separately metered through a bi-directional meter.

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**Net Metering Monthly Cash-Out Rates:**

The monthly cash-out rates below are applicable to monthly private generation credits in excess of a customer's load for those customers participating in Company's "Net Metering Pilot-Renewable Energy Facilities" tariff. Customer's Qualifying Facility (QF) generates at the discretion of Customer. Output of QF may be used to offset the Customer's personal electricity requirements and any output not consumed by Customer may be supplied to Company. The rates below are "as available" rates updated quarterly based upon current avoided costs.

a. Where time-of-use metering is not required by the facility, \$0.0254 per kWh for all energy delivered at distribution voltage. R

b. Where time-of-use metering is not required by the facility, \$0.0246 per kWh for all energy delivered at transmission voltage. R

c. With time-of-use metering and energy delivered at distribution voltage the rates per kWh are:

<b><u>Periods</u></b>	<b><u>Summer</u></b>	<b><u>Winter</u></b>
On-Peak	\$0.0525per kWh	
Off-Peak	\$0.0258 per kWh	\$0.0239 per kWh

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d. With time-of-use metering and energy delivered at transmission voltage the rates per kWh are:

<b><u>Periods</u></b>	<b><u>Summer</u></b>	<b><u>Winter</u></b>
On-Peak	\$0.0509 per kWh	
Off-Peak	\$0.0250 per kWh	\$0.0232 per kWh

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I,R**Capacity Credit:**

Applicable for generation capacity received only during the summer on-peak periods for firm power and energy delivered from the QFs to the Company. The rates for capacity credit are based on the Midcontinent Independent System Operator, Inc. (MISO) Zone 3 capacity auction clearing price adjusted for transmission and distribution losses to reflect the level at which the QFs connects to the Company's system based upon current avoided costs and are subject to change. (Customers whose resources are accredited by MISO for capacity will receive a credit. The value of the credit will be actual accredited capacity for the resource that the Company receives from MISO for use in the Planning Resource Auction (PRA) on a year-by-year (or season-by-season) basis. Under the current MISO Resource Adequacy construct, PRA accredited capacity is in the form of Zonal Resource Credits (ZRCs) that assumes solar receive an accreditation of 50 percent of nameplate capacity and wind receive 18.4 percent of nameplate capacity.)

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Capacity credit (in \$/kWh) is calculated as:

Seasonal capacity auction clearing price (\$/kW/Year) times PRA accreditation rate  
 Spring and Summer on-peak hours (276 hours), Fall on-peak hours  
 (273 hours), and Winter on-peak hours (360 hours)

<b>Resource Type</b>	<b>On-peak Capacity Adder</b>
On-Peak (kWh)Wind	\$0.00647 per kWh
On-Peak (kWh)Solar	\$0.03242 per kWh
Capacity Component (All kWh) Dispatchable	\$0.03967 per kWh

**Monthly Energy Purchase Rates:**

Any Qualifying Facility (QF) up to and including 100 kW may negotiate a legally enforceable obligation for the sale of energy and capacity for a specified term at a rate based upon avoided costs, and, at the option of the facility, the avoided costs may be determined at the time of delivery or time the obligation is incurred. Avoided energy cost will be set equal to the hourly real-time Midcontinent Independent System Operator, Inc.(MISO), locational marginal price (LMP) for the ALTW.ALTW load zone adjusted for transmission and distribution losses to reflect the level at which the QF connects to the system. Distribution and transmission losses are described further in the terms and conditions section of this tariff. For QFs with a capacity over 100 kW, the Company will purchase energy and capacity at the MISO real-time LMP rates at the option of the QF or have the option to negotiate an individually determined sales rate based on the Company's avoided costs.

**Net Metering Pilot - Renewable Energy Facilities – Annual Cash-Out Rates:**

For energy delivered from the QF to the Company under the Net Metering Pilot Cash Out provisions in this rate schedule shall be a weighted average of the MISO real-time LMP associated with the typical solar or wind resource generation profiles. The avoided cost rate will be updated annually.

<b>Resource Type</b>	<b>Transmission Voltage</b>	<b>Distribution Voltage</b>
Solar	\$0.030256 per kWh	\$0.031191 per kWh
Wind	\$0.026978 per kWh	\$0.027812 per kWh

These annual cash out rates are based upon the following load resource profiles of kWh delivered to the Company by generation technology.

# Interstate Power and Light Company

## ELECTRIC TARIFF

Filed with the I.U.B.

Original Sheet No. 51.1

### ORIGINAL TARIFF NO. 1

#### Cogeneration & Small Power Production

Rate Code CSPP

#### Solar Profile – Distribution of kWh Received by IPL

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	Month											
Hour	1	2	3	4	5	6	7	8	9	10	11	12
1:00:00 AM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2:00:00 AM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3:00:00 AM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
4:00:00 AM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
5:00:00 AM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
6:00:00 AM	0.000000	0.000000	0.000000	0.000000	0.000501	0.000800	0.000500	0.000082	0.000000	0.000000	0.000000	0.000000
7:00:00 AM	0.000000	0.000000	0.000116	0.001613	0.001979	0.002216	0.001890	0.001149	0.000810	0.000048	0.000000	0.000000
8:00:00 AM	0.000032	0.000704	0.003157	0.004675	0.004553	0.004917	0.004490	0.003633	0.003847	0.003375	0.000536	0.000073
9:00:00 AM	0.003120	0.004001	0.006342	0.007162	0.007485	0.007458	0.007489	0.006735	0.007020	0.006488	0.004177	0.003241
10:00:00 AM	0.005684	0.006714	0.009469	0.009957	0.009608	0.009984	0.010006	0.009850	0.009823	0.008768	0.006225	0.005768
11:00:00 AM	0.006820	0.008668	0.011631	0.011103	0.011147	0.011886	0.011993	0.011493	0.011592	0.010191	0.008082	0.007303
12:00:00 PM	0.007940	0.010127	0.012812	0.012610	0.011932	0.012944	0.013676	0.013103	0.012896	0.011410	0.008662	0.008006
1:00:00 PM	0.008356	0.010749	0.012907	0.012956	0.012784	0.012958	0.013696	0.013344	0.012938	0.011902	0.008707	0.007808
2:00:00 PM	0.007734	0.010291	0.012109	0.012084	0.011489	0.011583	0.013357	0.012153	0.011732	0.010725	0.007734	0.007387
3:00:00 PM	0.007252	0.008636	0.010603	0.010790	0.010084	0.010010	0.011897	0.011002	0.010652	0.008965	0.006199	0.006416
4:00:00 PM	0.005340	0.006244	0.007670	0.008126	0.007383	0.007413	0.009152	0.008813	0.007759	0.006217	0.003730	0.003981
5:00:00 PM	0.001972	0.003379	0.004712	0.004944	0.004727	0.005281	0.006343	0.005234	0.004158	0.002551	0.000587	0.000458
6:00:00 PM	0.000000	0.000335	0.001339	0.001922	0.002257	0.002592	0.003008	0.002295	0.001035	0.000072	0.000000	0.000000
7:00:00 PM	0.000000	0.000000	0.000000	0.000128	0.000592	0.000761	0.000763	0.000413	0.000006	0.000000	0.000000	0.000000
8:00:00 PM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000021	0.000006	0.000000	0.000000	0.000000	0.000000	0.000000
9:00:00 PM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
10:00:00 PM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
11:00:00 PM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
12:00:00 AM	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Monthly	0.054248	0.06985	0.092866	0.098069	0.096521	0.100824	0.108266	0.099299	0.094268	0.08071	0.054638	0.050441

# Interstate Power and Light Company

## ELECTRIC TARIFF

Filed with the I.U.B.

Original Sheet No. 51.2

### ORIGINAL TARIFF NO. 1

#### Cogeneration & Small Power Production

Rate Code CSPP

##### Wind Profile – Distribution of kWh Received by IPL

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	Month											
Hour	1	2	3	4	5	6	7	8	9	10	11	12
1:00:00 AM	0.003883	0.003883	0.0036	0.00285	0.003736	0.003299	0.002322	0.002212	0.003482	0.005166	0.004399	0.004473
2:00:00 AM	0.003708	0.00387	0.003451	0.00292	0.003669	0.003317	0.002233	0.002264	0.003428	0.005078	0.004219	0.004794
3:00:00 AM	0.003656	0.004045	0.003568	0.002952	0.003658	0.003352	0.002225	0.002311	0.003344	0.004935	0.004165	0.004591
4:00:00 AM	0.003705	0.004024	0.003422	0.002914	0.003651	0.003258	0.002179	0.002386	0.003185	0.004795	0.004193	0.004455
5:00:00 AM	0.003833	0.003886	0.003423	0.00275	0.003505	0.003328	0.002135	0.002341	0.003074	0.004681	0.004352	0.004318
6:00:00 AM	0.003862	0.003951	0.003461	0.002674	0.003509	0.003354	0.001955	0.002226	0.003056	0.004559	0.004526	0.004372
7:00:00 AM	0.00391	0.003983	0.003576	0.002611	0.003234	0.003191	0.001785	0.002125	0.003158	0.004579	0.00471	0.004275
8:00:00 AM	0.003982	0.003909	0.003638	0.002544	0.003162	0.003121	0.001673	0.001994	0.002705	0.004542	0.00469	0.004206
9:00:00 AM	0.003989	0.003733	0.003507	0.00249	0.003213	0.00338	0.00174	0.002057	0.002359	0.004276	0.004468	0.004031
10:00:00 AM	0.00397	0.003329	0.003445	0.002563	0.003334	0.003366	0.001813	0.002063	0.002452	0.004202	0.004078	0.003842
11:00:00 AM	0.004233	0.003208	0.003424	0.0027	0.003312	0.003212	0.001903	0.002127	0.00267	0.004185	0.004221	0.003861
12:00:00 PM	0.0042	0.003193	0.003452	0.002753	0.003453	0.003317	0.001939	0.002081	0.002847	0.004395	0.004282	0.003887
1:00:00 PM	0.004208	0.003207	0.003462	0.002753	0.003553	0.003516	0.001971	0.002118	0.003053	0.004681	0.004447	0.004013
2:00:00 PM	0.004139	0.003232	0.003507	0.002739	0.003609	0.003721	0.002019	0.002216	0.003108	0.004712	0.004636	0.004163
3:00:00 PM	0.004112	0.003274	0.003534	0.002769	0.003691	0.003487	0.001996	0.002175	0.0032	0.004643	0.004671	0.004265
4:00:00 PM	0.004123	0.003335	0.003469	0.002797	0.00351	0.00372	0.001976	0.002137	0.003368	0.004574	0.004708	0.004222
5:00:00 PM	0.004189	0.003231	0.003411	0.002732	0.003612	0.00371	0.001962	0.002085	0.003313	0.004444	0.004694	0.004008
6:00:00 PM	0.004098	0.00313	0.0034	0.002664	0.003578	0.003609	0.001959	0.002031	0.003128	0.00438	0.004666	0.004162
7:00:00 PM	0.004225	0.003173	0.003316	0.00266	0.003369	0.003592	0.001951	0.002089	0.00329	0.004536	0.004971	0.004498
8:00:00 PM	0.004308	0.003315	0.003421	0.002611	0.003294	0.003375	0.001981	0.002184	0.003516	0.004853	0.005024	0.004537
9:00:00 PM	0.004276	0.003477	0.003543	0.002597	0.003391	0.003324	0.002058	0.002253	0.003579	0.005115	0.004936	0.004554
10:00:00 PM	0.004186	0.003654	0.003536	0.002638	0.003511	0.003457	0.002113	0.002287	0.003631	0.005214	0.004976	0.004798
11:00:00 PM	0.004094	0.003792	0.003542	0.002738	0.003493	0.003508	0.002154	0.002257	0.003545	0.005252	0.004898	0.004815
12:00:00 AM	0.004026	0.003936	0.003632	0.002786	0.003609	0.003364	0.002224	0.00217	0.003487	0.005247	0.004638	0.004655
Monthly	0.096914	0.085768	0.083738	0.065205	0.083656	0.081878	0.048264	0.05219	0.075978	0.113045	0.109568	0.103796

#### Terms and Conditions:

The use of this rider requires that special precautions be taken in the design of associated metering and control systems. The following terms and conditions describe these precautions and shall be followed on all Customer-owned distributed generation systems inclusive of QFs.

- The Customer will be compensated for all energy received from the distributed generation system as a bill credit unless the Customer requests cash payment. IPL will only issue a check for cash payment for balances of \$100 or more. The schedule for these payments is subject to annual review.
- The Customer shall pay for any increased capacity of the distribution equipment serving them and made necessary by the installation of its distributed generation system.
- The Customer's 60 hertz generator output must be at the voltage and phase relationship of the existing service or of one mutually agreeable to the Company and the Customer.
- The Customer will provide equipment to maintain a 100 percent power factor (+ or – 5 percent) during periods of the distributed generation system operation.

# Interstate Power and Light Company

## ELECTRIC TARIFF

Filed with the I.U.B.

Original Sheet No. 51.3

### ORIGINAL TARIFF NO. 1

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#### Cogeneration & Small Power Production

Rate Code CSPP

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##### Terms and Conditions: (continued)

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| 5.  | The Company reserves the right to disconnect the Customer's distributed generation system from its system if it interferes with the operation of the Company's equipment or with the equipment of other company Customers.   | C |
| 6.  | Prior to installation, a detailed electrical diagram of the distributed generation system and related equipment must be furnished to the Company for its approval for connection to the Company's system. No warranties, express or implied, will be made as to the safety or fitness of the said equipment by the Company due to this approval. | C |
| 7.  | Equipment shall be provided by the Customer that provides a positive means of preventing feedback to the Company during an outage or interruption of the system.   |   |
| 8.  | The Customer shall install, own and maintain all equipment deemed necessary by the Company to assure proper parallel operation of the distributed generation system.   | C |
| 9.  | The transmission loss factors shall be the ITC-Midwest transmission owner loss data currently posted with MISO. This factor is subject to change and can be found at <a href="http://www.misoenergy.org">www.misoenergy.org</a> .  | N |
| 10. | The distribution loss factor is 3.09 percent prior to the addition transmission losses.  | N |

##### Prompt Payment Provision:

After 20 days, add 1 1/2 percent on the past-due amount.