



MEMORANDUM

TO: Mayor Diane Wolfe Marlin and Members of City Council
FROM: William R. Gray, Public Works Director
Scott R. Tess, Environmental Sustainability Manager
DATE: October 15, 2018
RE: Electric Supply Agreements for Street Lighting and Commercial Accounts

Action Requested

City Council is requested to take action on two resolutions to authorize the execution of a retail electric supply agreements for City-owned accounts.

Background and Facts

Since electricity supply is no longer a regulated monopoly in Illinois, the City has an opportunity to competitively purchase electricity supply for City-owned street lights. The City Municipal Electric Aggregation broker, Good Energy, has provided brokerage services for street light and small commercial electric supply at no additional cost. Good Energy has solicited pricing from eight retail electric suppliers finding that Calpine Energy Solutions, with local offices in Zion, Illinois, was the low bidder \$0.035 per kWh for lighting accounts and \$0.047 per kWh for the 500,000 kWh of small commercial accounts not currently under contract, both at a 36-month term.

The current contracted rate for the 10 accounts with Homefield Energy is \$0.04246/kWh at a much larger volume of approximately 2.8 million annual kWh for this load and with a very different load profile. The new DS2 accounts are mostly small commercial accounts that are in the municipal electric aggregation pricing. However, moving these over to a commercial contract will be slightly cheaper.

Financial Impact

Street Light Supplier DS5	Price per kWh
Ameren Illinois Pricing	\$0.04104
Low Bid Retail Pricing	\$0.03588

Small Commercial Supplier DS2	Price per kWh
Ameren Illinois Pricing	\$0.05502
Municipal Aggregation Pricing	\$0.05757
Low Bid Retail Pricing	\$0.04793

Recommendations

It is recommended that “A RESOLUTION APPROVING A RETAIL ELECTRICITY SUPPLY AGREEMENT FOR DS2 ACCOUNTS” and “A RESOLUTION APPROVING A RETAIL ELECTRICITY SUPPLY AGREEMENT FOR DS5 ACCOUNTS” be approved.

Attachments:

RESOLUTION NO. 2018-10-049R

**A RESOLUTION APPROVING A RETAIL ELECTRICITY SUPPLY AGREEMENT
FOR DS5 ACCOUNTS**

(Electricity Sales and Purchase Agreement)

WHEREAS, the City of Urbana (“City”) is an Illinois home rule unit of local government pursuant to Section 6 of Article VII of the Illinois Constitution of 1970 and the Statutes of the State of Illinois; and

WHEREAS, the City has the opportunity to purchase electricity for the operation of its DS5 Accounts at a reasonable per kilowatt price; and

WHEREAS, since the sale of electricity within the State of Illinois is no longer a regulated monopoly, the City has the opportunity to purchase electricity to operate its City-owned street lights with such purchase being at competitive rates; and

WHEREAS, the City and Good Energy, LLC have entered into an electricity aggregation agreement whereby, *inter alia*, Good Energy, LLC serves as the City’s broker for obtaining competitive pricing for electricity to operate the City’s street lights; and

WHEREAS, Good Energy, LLC has solicited pricing from eight retail electricity suppliers regarding the supply of electricity for the City’s street lights; and

WHEREAS, Calpine Energy Solutions, LLC provided the most competitive bid to Good Energy, LLC for providing electricity for the City’s street lights; and

WHEREAS, the City Council seeks to approve an Electricity Sales and Purchase Agreement between the City and Calpine Energy Solutions, LLC in substantially the form appended hereto and incorporated herein as an exhibit (hereinafter, “Electricity Supply Agreement”).

Section 1.

The Electricity Supply Agreement in substantially the form attached hereto and incorporated herein by reference, shall be and the same is hereby authorized and approved.

Section 2.

The Mayor of the City of Urbana, Illinois, be and the same is hereby authorized to execute on behalf of the City of Urbana, Illinois and deliver the same to the City Clerk of the City of Urbana, Illinois, the latter being and the same being hereby authorized to attest to said execution of the Electricity Supply Agreement as so authorized and approved for and on behalf of the City of Urbana, Illinois.

PASSED BY THE CITY COUNCIL this _____ day of _____, 2018.

AYES:

NAYS:

ABSTENTIONS:

Charles A. Smyth, City Clerk.

APPROVED BY THE MAYOR this ____ day of _____, 2018.

Diane Wolfe Marlin, Mayor.

Fixed Price, Full Requirements Electricity (MISO)

Reference:
ELECTRICITY SALES AND PURCHASE AGREEMENT
Between Calpine Energy Solutions, LLC ("Seller")
And City of Urbana ("Buyer")
As of October 16, 2018 ("Effective Date")
Addendum Date: October 23, 2018

Reference: DS5 Accounts

This Addendum (the "Addendum") supplements the Electricity Sales and Purchase Agreement referred to above (the "Agreement"). The Parties hereby agree to the terms and conditions set forth herein for Buyer's Facilities served at the Delivery Point. Capitalized terms not otherwise defined in this Addendum shall have their meanings set forth elsewhere in the Agreement, including its Appendices.

1. DELIVERY POINT & DELIVERY PERIOD

Sale and Delivery of Electricity will be made to the interconnection point(s) between the RTO Transmission Grid and Buyer's Local Utility ("the Delivery Point"). Delivery to meters at Buyer's facility(ies) will be made by Buyer's Local Utility. This Addendum shall be in full force and effect as of the Addendum Date. The terms set forth herein shall apply from the Start Date through the End Date ("Delivery Period"):

Market Area	Delivery Point	Utility
MISO	Ameren_IL	Ameren_IL

Start Date:	End Date:
Meter Read December 2018	Meter Read December 2021

2. CONTRACT PRICE

Buyer shall pay Seller both the **Usage Charges** and the **Demand Charges** as described below. "PT" means "pass through."

Usage Charges – Buyer shall pay the *Electricity Price* for every MWh of usage at the Delivery Point, subject to the Monthly Settlement section below. The Usage Charges reflect the value of surplus Marginal Losses allocations and Auction Revenue Rights allocations assigned by MISO and include electric energy and those components defined as Delivery Services in Section 3.

Electricity Price (\$/MWh)
\$35.88

3. DELIVERY SERVICES

Delivery Services shall include all of the components which are indicated below by an "☒". Seller shall pass through to Buyer all other charges associated with Electricity delivery to the Delivery Point, including Buyer's Local Utility charges) and System Support Resources charges.

<input checked="" type="checkbox"/>	Ancillary Services/ISO Fees/Operational Charges
<input checked="" type="checkbox"/>	Line Losses
<input checked="" type="checkbox"/>	State mandated renewable energy charges (through May 31, 2019 only)
<input checked="" type="checkbox"/>	Revenue Neutrality Uplift/Revenue Sufficiency Guarantee
<input checked="" type="checkbox"/>	Transmission Expansion Planning Charge (MISO Schedule 26 A)
<input checked="" type="checkbox"/>	Network Transmission Related
<input checked="" type="checkbox"/>	Capacity

4. MONTHLY SETTLEMENT

Each monthly billing cycle, Seller shall calculate Buyer's invoice based on Buyer's usage as described below. If Line Losses are not included in Section 3, Buyer's metered usage shall be adjusted for Line Losses.

5. CONTRACT QUANTITY

The Contract Quantities for this Transaction are set forth below. If Line Losses are not included in Section 3, Buyer's Baseline Monthly Quantity reflects an adjustment for Line Losses determined at the Delivery Point. The Tariff Based Obligation is based on Buyer's historic peak demand. If Buyer's actual monthly peak demand adjusted for Line Losses exceeds the monthly Tariff Based Obligations, Seller may charge Buyer for additional costs that result from the deviation. The Capacity Obligation is based on Buyer's peak load contribution and reflects the appropriate scalar adjustments. If Buyer's actual Capacity Obligation exceeds the Capacity Obligation in effect as of the Addendum Date, Seller may pass through any additional costs that result from the deviation.

Contract Quantities			
Month	Buyer's Baseline Monthly Quantity (MWh)	Tariff Based Obligation (MW)	Capacity Obligation (MW)
11/2018	9	0.00	0.00
12/2018	136	0.10	0.00
1/2019	265	0.06	0.00
2/2019	223	0.14	0.00
3/2019	222	0.10	0.00
4/2019	194	0.00	0.00
5/2019	175	0.00	0.00
6/2019	162	0.00	0.00
7/2019	176	0.00	0.00
8/2019	195	0.00	0.00
9/2019	210	0.00	0.00
10/2019	242	0.00	0.00
11/2019	255	0.00	0.00
12/2019	270	0.10	0.00
1/2020	264	0.06	0.00
2/2020	231	0.14	0.00
3/2020	221	0.10	0.00
4/2020	192	0.00	0.00
5/2020	173	0.00	0.00
6/2020	162	0.00	0.00
7/2020	177	0.00	0.00
8/2020	196	0.00	0.00
9/2020	211	0.00	0.00
10/2020	244	0.00	0.00
11/2020	256	0.00	0.00
12/2020	270	0.10	0.00
1/2021	265	0.06	0.00
2/2021	226	0.14	0.00
3/2021	225	0.10	0.00
4/2021	197	0.00	0.00
5/2021	178	0.00	0.00
6/2021	162	0.00	0.00
7/2021	174	0.00	0.00
8/2021	192	0.00	0.00
9/2021	208	0.00	0.00
10/2021	238	0.00	0.00
11/2021	246	0.00	0.00
12/2021	140	0.10	0.00

6. CHANGE IN CIRCUMSTANCES

The Contract Price and all other terms and conditions of this Addendum are established in reliance on the information provided to Seller concerning Buyer's load requirements. Any incremental costs incurred by Seller as a result of inaccuracies in any such information provided to Seller or due to a change in how Buyer's usage is metered may be passed through to Buyer.

The Contract Price and all other terms and conditions of this Addendum are established in reliance on the existing Laws, rates, charges, Capacity and Tariff Based Obligations, RTO operations, market structure, congestion zone design and protocols that are in effect as of the Addendum Date. The Contract Price may also include costs for RTO provided services. In the event of changes in the above that cause additional costs to Seller, Seller may pass through such costs to Buyer.

7. DEMAND RESPONSE

If Buyer participates in any demand response programs, Buyer shall notify Seller and reimburse Seller for any costs incurred by Seller as a result of Buyer's participation.

8. MATERIAL CHANGE

Buyer shall be responsible to Seller for any Costs and Losses incurred by Seller as a result of a Material Change in Buyer's Usage. Costs and Losses will be calculated based on the usage deviation from Buyer's Baseline Monthly Quantity starting from the beginning of the Material Change in Buyer's Usage. For the purposes of this Addendum, a "Material Change in Buyer's Usage" shall mean either (a) at least a 30% increase in actual monthly usage from Buyer's Baseline Monthly Quantity for three (3) or more consecutive months; or (b) at least a 30% decrease in actual monthly usage from Buyer's Baseline Monthly Quantity for three (3) or more consecutive months.

8. **BROKER FEES** Buyer hereby acknowledges that a third party broker has been used for this transaction and that the pricing set forth in this Addendum includes the compensation paid to the broker by Seller on Buyer's behalf.

As supplemented by this Addendum including its Schedules, if any, all other Terms and Conditions contained in the Agreement remain in full force and effect

This Addendum is subject to the Schedule(s) identified below:

CALPINE ENERGY SOLUTIONS, LLC

CITY OF URBANA

Sign: _____

Sign: _____

Print: _____

Print: _____

Title: _____

Title: _____

<i>For Seller's Use Only</i>
<i>Internal Point:</i>

APPENDIX II
ENROLLMENT FORM

FOR THE ELECTRICITY SALES AND PURCHASE AGREEMENT
BETWEEN CALPINE ENERGY SOLUTIONS, LLC ("SELLER")
AND
City of Urbana ("BUYER")
AS OF October 16, 2018 ("EFFECTIVE DATE")
APPENDIX DATE: October 23, 2018

Reference: DS5 Accounts

Market Area	Delivery Point	Buyer's Local Utility
MISO	Ameren_IL	Ameren_IL

1. CUSTOMER ACCOUNTS

No	Account Number	Meter Number	Address	City	Zip
1	0137116001	94122457			
2	0381058096	07633511			
3	0400580019	72510041			
4	0425088004	72623182			
5	0431514890	72536245			
6	0458872014	40496596_U NMETERED			
7	0505364017	72685574			
8	0594392650	72536430			
9	0624345779	72718398			
10	0650447370	40599529_U NMETERED			
11	0799618252	72828204			
12	1018173137	40799905_U NMETERED			
13	1170714098	72721981			
14	1172639853	72551984			
15	1174527854	06350178			
16	1174527854	40883236_U NMETERED			
17	1179323378	72848242			
18	1216658578	72530300			

19	1258279533	72629381		
20	1395112339	72542929		
21	1575076492	72509228		
22	1758410738	41201338_U NMETERED		
23	1822130731	72988054		
24	1844003212	72773376		
25	1900142893	72547005		
26	2107690738	72645615		
27	2191310251	93956738		
28	2261883696	72544696		
29	2262893772	72629379		
30	2546282571	72712920		
31	2656220813	72507450		
32	2775086020	72847933		
33	2786889295	72850523		
34	2918586735	72988073		
35	2932624017	72552121		
36	3097767373	72535432		
37	3231088496	72623901		
38	3343896491	91742992		
39	3526692656	91745598		
40	3595632976	72548402		
41	3713038252	72546361		
42	3974145009	72848523		
43	3995350898	72849328		
44	4182096007	72620453		
45	4196328490	72521195		
46	4255111379	72619576		

47	4295429611	72538310		
48	4375065451	72623943		
49	4481076659	72646006		
50	4653101778	91705182		
51	4693325612	72544548		
52	4710204335	72541642		
53	4715471857	73051297		
54	4742356977	72594668		
55	4798326734	72847940		
56	4861942896	72510014		
57	4952793456	94044313		
58	5136675216	72712162		
59	5268400978	43119778_U NMETERED		
60	5353247699	72544533		
61	5465404333	72521676		
62	5603112001	15772290_U NMETERED		
63	5648351532	72539235		
64	5835282414	72835704		
65	5842136016	91710805		
66	6024667696	43552207_U NMETERED		
67	6118416333	43606381_U NMETERED		
68	6184543536	72848454		
69	6418797130	72852444		
70	6590104811	72536161		
71	6628176331	72684740		
72	6963909933	72618989		
73	7053014097	72507615		
74	7281792494	72620688		

75	7303844332	72634696			
76	7367961003	72986369			
77	7414292334	07865359			
78	7470479215	44392249_U NMETERED			
79	7630458898	92264855			
80	7673486411	72863704			
81	7764355853	72715458			
82	7903180493	72728668			
83	8011863210	72749380			
84	8012259693	72721979			
85	8128173459	72848243			
86	8275418578	72618603			
87	8338166257	72540189			
88	8546601454	72749382			
89	8597483058	91784642			
90	8849021294	06576989			
91	9326213290	72852018			
92	9640895690	45626548_U NMETERED			
93	9655272815	45634327_U NMETERED			
94	9663391218	72846310			
95	9875630736	72652018			
96	9905083537	72519714			
97	9961081612	91737066			

2. ACCOUNT INFORMATION

Buyer represents that the account information listed above is for Buyer's own account(s) with Buyer's Local Utility. Buyer acknowledges that Seller will rely on the accuracy of the account information listed above in performing its obligations under this Agreement.

3. DOCUMENTATION

Buyer authorizes Seller, and Buyer assumes responsibility for preparing and submitting to Buyer's Local Utility any required documents appointing Seller as Buyer's energy service provider, substantially in the form provided by Seller, and any other documents reasonably required for Seller to act as limited agent of Buyer, including authorizing the release of customer-specific information to Seller. Buyer will provide Seller with all account information and other documents required to appoint Seller as Buyer's energy service provider no later than three (3) business days prior to any deadline

designated by Buyer's Local Utility. Costs and expenses incurred by Seller as a result of a delayed or unsuccessful enrollment of Buyer as Seller's customer will be Buyer's sole responsibility, provided that the delay or failure is not a direct result of any action or inaction by Seller. Buyer represents to Seller that it can and will be enrolled on the Start Date for the sale and purchase of Electricity.

CALPINE ENERGY SOLUTIONS, LLC

CITY OF URBANA

Sign: _____

Sign: _____

Print: _____

Print: _____

Title: _____

Title: _____

ELECTRICITY SALES AND PURCHASE AGREEMENT
Between CALPINE ENERGY SOLUTIONS, LLC ("Seller")
And City of Urbana ("Buyer")
As of October 16, 2018 (the "Effective Date")

This Agreement is made by and between Seller and Buyer (referred to collectively as the "Parties" and individually as a "Party"). For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

ARTICLE 1. SCOPE OF THE AGREEMENT

(a) Electricity Supply. Upon enrollment of Buyer's Facilities, Seller shall sell and deliver, or cause a third party (including Buyer's Local Utility) to deliver, and Buyer shall purchase and receive, 100% of Buyer's Electricity requirements for Buyer's Facilities at the Delivery Point(s) solely for use at Buyer's Facilities.

(b) Transactions. From time to time, the Parties may, but shall not be obligated to, enter into one or more Transactions. Transactions will ordinarily be entered into by the execution of an Addendum. The Parties may also enter into Transactions orally or through the use of Electronic Communication and in those cases Buyer shall execute, promptly upon Seller's request, an Addendum confirming the terms of such Transaction. The Parties agree that an Addendum may take the form of a facsimile or an Imaged Document. Notwithstanding the foregoing, the failure of either Party to execute an Addendum shall not invalidate an otherwise valid Transaction. Each Party agrees not to contest, or assert any defense to, the validity or enforceability of a Transaction entered into in accordance with this Agreement based on any Law requiring agreements to be in writing or to be signed by the Parties or based on any lack of authority of the Party or any lack of authority of any employee of the Party to enter into a Transaction.

ARTICLE 2. TERM OF AGREEMENT

This Agreement shall be in effect as of the Effective Date and shall continue until terminated by either Party with thirty (30) days written notice to the other Party, or in accordance with the other provisions contained herein; provided, that this Agreement shall remain in effect with respect to the Transaction(s) entered into prior to such termination until both Parties have fulfilled all of their obligations with respect to such Transaction(s) or such Transaction(s) shall have each been terminated under Articles 6 or 7 of this Agreement, provided that all obligations of the Parties which must survive such termination in order to give full force and effect to the intent of the Parties as expressed herein shall so survive.

ARTICLE 3. PRICING

(a) Contract Price. The price that Buyer pays for Electricity shall be set forth in each Transaction. In the event that Seller delivers and Buyer receives Electricity and there is no Transaction in effect with respect to such deliveries (including, without limitation, for any deliveries made subsequent to termination of this Agreement), then the Contract Price shall be the Base Price.

(b) Taxes. As between the Parties, Seller shall be responsible for all Taxes incurred up to the Delivery Point and Buyer shall be responsible for all Taxes incurred at and after the Delivery Point whether imposed on Buyer or Seller. Seller may recoup such Taxes as a separate line item on Seller's invoice to the extent allowed by Law. Seller will recognize a sales tax exemption of Buyer upon receipt of proper documentation.

ARTICLE 4. SERVICE OBLIGATIONS

(a) Enrollment. Buyer shall timely provide Seller with all information (including account information) and documentation required to appoint Seller as Buyer's Electricity service provider and to allow Seller to receive information from Buyer's Local Utility which Seller requires to perform its obligations hereunder. Seller shall enroll Buyer's Facilities

upon: (i) execution of a Transaction; (ii) receipt of an executed Enrollment Form (attached hereto as Appendix II) from Buyer and (iii) a designated active switch date from Buyer's Local Utility.

(b) Seller shall reimburse Buyer for all costs and losses incurred by Buyer resulting from a delayed or unsuccessful enrollment or de-enrollment that is a direct result of a negligent act or omission by Seller. Buyer shall reimburse Seller for all costs and losses incurred by Seller resulting from a delayed or unsuccessful enrollment or de-enrollment that is not a direct result of a negligent act or omission by Seller.

(c) Operational Requirements. Buyer shall use commercially reasonable efforts to operate Buyer's Facilities such that Electricity consumption is consistent with Buyer's Baseline. Buyer shall notify Seller as soon as practicable of: (i) any revised monthly consumption forecast; (ii) all scheduled or unscheduled outages or anticipated changes in usage; (iii) changes in Buyer's Baseline; and (iv) any removal of a Buyer's Facility from service hereunder during the effective period of an Addendum or a Transaction. Buyer shall be responsible to Seller for any additional costs and losses incurred by Seller arising from (i), (ii), (iii) or (iv); provided that Seller shall use commercially reasonable efforts to mitigate any such costs after receipt of such notice. Buyer may participate in curtailment or demand response programs, provided that Buyer provides prior written notice to Seller. Buyer shall be responsible for any costs incurred by Seller associated with Buyer's participation in such programs.

(d) Metering. Buyer or Buyer's Local Utility shall be responsible for the cost of installing meters and related equipment (including any telemetry and associated telephonic connections) at Buyer's Facilities that are required by Buyer's Local Utility for Seller to perform its obligations under this Agreement. Such meters shall measure all Electricity at Buyer's Facilities. Buyer shall provide Seller with reasonable access to Buyer's Facilities to install any additional metering equipment reasonably required by Seller. Seller shall be responsible for any costs associated with such additional metering equipment.

(e) Delivery and Title. As between the Parties, Seller will be in exclusive control, hold title to, and be responsible for any damage or injury caused by Electricity before the Delivery Point(s). Seller shall have no further obligation or responsibility relating to the Electricity at and after the Delivery Point(s). Buyer acknowledges that Seller does not own or control any of the transmission or distribution facilities used to deliver Electricity to the Delivery Points and that this function is solely the responsibility of the RTO and/or Buyer's Local Utility, and accordingly that Seller shall have no liability on account of any acts or omissions of these parties or for any interruption or failure to deliver arising therefrom.

ARTICLE 5. BILLING, PAYMENT AND CREDIT

(a) Invoices. Seller shall invoice Buyer each month in a manner consistent with Seller's billing cycle and at the address set forth on Appendix I. Seller shall calculate the amount(s) due based upon Buyer's actual usage information. Seller may reasonably estimate usage and charges at the time of invoicing; provided, that Seller shall adjust subsequent invoices to reflect actual usage and charges after such information is received by Seller.

(b) Payment Terms. All invoices under this Agreement shall be immediately due and payable by Buyer to Seller, without Set-off, in accordance with Seller's invoice instructions on or before the thirtieth (30th) day following the date of invoice. All past due payments shall accrue interest at the Interest Rate calculated from the due date until the date payment is received in full by Seller.

(c) LDC Invoice. Where applicable, Buyer will receive a separate invoice from Buyer's Local Utility for the services it provides in delivering Electricity to Buyer's Facilities. Buyer shall be solely responsible for payment of such invoice(s) and of any other charges billed by Buyer's Local Utility in connection herewith.

(d) Billing Disputes. If there is a good faith dispute regarding any invoice, Buyer shall pay to Seller the undisputed amount of such invoice. If any part of the dispute is resolved in Seller's favor, Buyer shall pay the resolved amount within two (2) Business Days of such resolution and shall include interest at the Interest Rate calculated as of the due date specified in the invoice. Buyer's right to dispute an invoice will be deemed waived if not made within one (1) year after the date of invoice.

(e) Credit. Upon any request from time to time by Seller, Buyer shall promptly provide to Seller such financial statements and other information as Seller may reasonably require to adequately assess Buyer's creditworthiness. If Seller has reasonable grounds for insecurity regarding the performance, whether or not then due, of any obligation of Buyer under this Agreement (including, without limitation on account of the occurrence of a material change in Buyer's creditworthiness or any Default), Seller may demand Adequate Assurances in an amount determined by Seller in a commercially reasonable manner, which Adequate Assurances shall be provided by Buyer within two (2) Business Days of such demand. In the event that Adequate Assurances are provided in the form of cash collateral, Buyer shall be deemed to have granted Seller a continuing first priority security interest in, lien on, and right of Set-off against such collateral.

ARTICLE 6. FORCE MAJEURE

Except for payment obligations, if either Party is rendered unable, wholly or in part, to perform its obligations under this Agreement due to Force Majeure, to the extent affected by the Force Majeure the obligations of each Party will be suspended for the duration of such Force Majeure. A Party claiming Force Majeure shall promptly notify the other Party by telephone and confirm within a reasonable period of time by a written notice describing in reasonable detail the nature and estimated duration of such Force Majeure. The Party claiming Force Majeure shall remedy the Force Majeure with all reasonable dispatch. If the duration of the Force Majeure event exceeds twenty (20) days, the Party not claiming Force Majeure may terminate the affected portions of any Transaction upon written notice to the other Party. Any termination due to Force Majeure will not be subject to an early termination payment.

ARTICLE 7. DEFAULT AND TERMINATION

(a) If a Default with respect to a Party shall have occurred and be continuing, the non-defaulting Party shall have the right to suspend its delivery obligations and/or designate a date upon which all outstanding Transactions will liquidate and terminate and all amounts owing will accelerate and be netted into a single amount in accordance with Article 7(c) as of such date ("Early Termination Date").

(b) The non-defaulting Party shall calculate in a commercially reasonable manner a Settlement Amount for each terminated Transaction as of the Early Termination Date. For purposes of calculating such Settlement Amount for any terminated Transaction for which the Contract Quantity thereunder is not a fixed quantity, the Contract Quantity shall be the estimated baseline quantity set forth in the Addendum.

(c) The non-defaulting Party shall calculate a termination payment owed by the defaulting Party to the non-defaulting Party by: netting out (i) all Settlement Amounts that would be due to the defaulting Party, plus, at the option of the non-defaulting Party, any cash or other form of security then available to the non-defaulting Party, plus any or all other amounts due to the defaulting Party under this Agreement against (ii) all Settlement Amounts that would be due to the non-defaulting Party, plus any or all other amounts due to the non-defaulting Party under this Agreement, so that all such amounts shall be netted to a single amount, which shall not be less than zero (the "Termination Payment"). The Parties acknowledge and agree that the Termination Payment, if there is one, reflects actual damages to the non-defaulting Party. The Termination Payment shall be due and payable by the defaulting Party

to the non-defaulting Party within three (3) Business Days after receipt of a Termination Payment invoice.

(d) Notwithstanding any provision to the contrary, in the event that Seller is required under Law to continue to make deliveries to Buyer under this Agreement or any Transaction after the Early Termination Date ("Post-Termination Deliveries"), the Parties agree that such obligation shall in no event prohibit, limit or otherwise impair Seller's rights under this Article 7 (including, without limitation, the right to terminate and liquidate any Transaction and accelerate any amounts owing).

ARTICLE 8. LIMITATION OF LIABILITY

FOR BREACH OR DEFAULT ARISING FROM ANY PROVISION FOR WHICH AN EXPRESS REMEDY IS PROVIDED HEREIN, SUCH REMEDY OR MEASURE OF DAMAGES SHALL BE THE SOLE AND EXCLUSIVE REMEDY AND ALL OTHER REMEDIES OR DAMAGES AT LAW OR IN EQUITY ARE WAIVED. IF NO REMEDY OR MEASURE OF DAMAGES IS EXPRESSLY PROVIDED HEREIN, LIABILITY SHALL BE LIMITED TO DIRECT, ACTUAL DAMAGES ONLY, SUCH DIRECT, ACTUAL DAMAGES SHALL BE THE SOLE AND EXCLUSIVE REMEDY, AND ALL OTHER REMEDIES OR DAMAGES AT LAW OR IN EQUITY ARE WAIVED. EXCEPT AS MAY BE INCLUDED IN AN EXPRESS REMEDY PROVIDED FOR HEREIN, NEITHER PARTY SHALL BE LIABLE TO THE OTHER PARTY FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF OR RELATED TO THIS AGREEMENT, INCLUDING LOST PROFITS OR BUSINESS INTERRUPTION DAMAGES, WHETHER BASED ON STATUTE, CONTRACT, TORT, UNDER ANY INDEMNITY OR OTHERWISE, WITHOUT REGARD TO CAUSE OR THE NEGLIGENCE OF ANY PARTY, WHETHER SOLE, JOINT, ACTIVE OR PASSIVE, AND EACH PARTY HEREBY RELEASES THE OTHER PARTY FROM ANY SUCH LIABILITY, EVEN IF DURING THE TERM HEREOF IT ADVISES THE OTHER OF THE POSSIBILITY OF SUCH DAMAGES. TO THE EXTENT ANY DAMAGES REQUIRED TO BE PAID HEREUNDER ARE LIQUIDATED, THE PARTIES ACKNOWLEDGE THAT THE DAMAGES ARE DIFFICULT OR IMPOSSIBLE TO DETERMINE, OR OTHERWISE OBTAINING AN ADEQUATE REMEDY IS INCONVENIENT AND THE DAMAGES CALCULATED HEREUNDER CONSTITUTE A REASONABLE APPROXIMATION OF THE HARM OR LOSS. THE PROVISIONS OF THIS ARTICLE 8 SHALL APPLY TO THE FULLEST EXTENT PERMITTED BY LAW.

ARTICLE 9. REPRESENTATIONS AND WARRANTIES

(a) Each Party represents and warrants to the other that: (i) it is validly existing and in good standing in the jurisdiction of its formation; (ii) the execution, delivery and performance of this Agreement and each Transaction are within its powers, have been duly authorized by all necessary action and do not violate any of the terms and conditions in its governing documents or any agreements to which it is a party or any Law applicable to it; (iii) it has not filed, does not plan to file, nor has it had filed against it, any bankruptcy proceeding; (iv) this Agreement and each Transaction constitutes its legally valid and binding obligation enforceable against it in accordance with its terms (subject to any equitable defenses); (v) it is not a party to or subject to any commitment that may restrict or interfere with the delivery or receipt of Electricity under this Agreement; and (vi) it is a "forward contract merchant" (within the meaning of such term as used in the U.S. Bankruptcy Code) and each Party is acting in its capacity as a forward contract merchant in entering into this Agreement.

(b) Buyer represents to Seller that: (i) Seller is not acting as Buyer's advisor, expert, fiduciary, representative or consultant and has not provided, and nothing herein will be claimed by Buyer as the provision

of, advice regarding the value or advisability of trading in commodities; (ii) Buyer shall be solely responsible for retaining adequate advisors and counsel to advise it with respect to the obligations assumed hereunder regardless of any information provided by Seller; (iii) it has knowledge and experience in business matters sufficient to enable it to evaluate the risks associated with this Agreement and this Agreement is entered into by Buyer at Buyer's sole election and in the exercise of its independent judgment without duress; (iv) it is not relying on any representations of Seller other than those expressly set forth herein; (v) Buyer owns or controls Buyer's Facilities or has control over the purchase and receipt of Electricity therefor; (vi) all of the information furnished by Buyer concerning Buyer's Facilities (including applicable load factors, Buyer's Local Utility rate classes and schedules, time of use, and service information) is, to the best of Buyer's information and belief, true and accurate when furnished to Seller; (vii) it is a producer, processor, commercial user of or merchant handling the commodity subject hereto and has entered into this Agreement and any Transactions solely for non-speculative purposes related to such business; (viii) it shall not resell any Electricity received from Seller to a third party; (ix) each of Buyer's Facilities can be enrolled on the Start Date specified for each Transaction; and (x) Buyer's total aggregate Electricity usage exceeds 800 MWh annually.

(c) NEITHER PARTY GIVES NOR RECEIVES ANY WARRANTY REGARDING THE SALE, PURCHASE OR DELIVERY OF ELECTRICITY, WHETHER EXPRESS, IMPLIED, OR STATUTORY, EXCEPT AS OTHERWISE EXPRESSLY PROVIDED IN THIS AGREEMENT. SELLER DISCLAIMS ANY AND ALL IMPLIED WARRANTIES AND SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS OF ELECTRICITY FOR A PARTICULAR PURPOSE OR USE. THE OBLIGATIONS OF THE PARTIES UNDER THIS AGREEMENT ARE OBLIGATIONS OF THE PARTIES ONLY, AND NO RECOURSE SHALL BE AVAILABLE AGAINST ANY EMPLOYEE, OFFICER, DIRECTOR, SHAREHOLDER, MEMBER, PARTNER, OR AFFILIATE OF A PARTY UNLESS SPECIFICALLY PROVIDED FOR IN A SEPARATE AGREEMENT.

The representations and warranties made in this Article 9 shall be deemed to be repeated upon the execution of any Transaction.

ARTICLE 10. BANKRUPTCY CODE ACKNOWLEDGEMENTS

The Parties acknowledge and agree that all Transactions constitute "forward contracts" within the meaning of the United States Bankruptcy Code. Each Party further agrees that, for purposes of this Agreement, the other Party is not a "utility" as such term is used in Section 366 of the U.S. Bankruptcy Code, and each Party waives and agrees not to assert the applicability of the provisions of such Section 366 in any bankruptcy proceeding wherein such Party is a debtor. The Parties further agree that all Electricity delivered hereunder constitutes a "good" under Section 503(b)(9) of the U.S. Bankruptcy Code.

ARTICLE 11. DEFINITIONS

Capitalized terms used in this Agreement have the following meanings:

(a) "Addendum" means, in respect to a specific Transaction, a supplement to, or modification of, this Agreement signed, or deemed accepted, by both Parties setting forth the terms of such Transaction.

(b) "Adequate Assurances" means collateral in the form of cash, letters of credit, or other security acceptable to Seller.

(c) "Affiliates" means, with respect to any person, any other person (other than an individual) that, directly or indirectly, through one or more intermediaries, controls, or is controlled by, or is under common control with, such person. For this purpose, "control" means the direct or indirect ownership of fifty percent (50%) or more of the outstanding capital stock or other equity interests having ordinary voting power.

(d) "Agreement" means this Electricity Sales and Purchase Agreement, including all appendices, Addenda, Voice Records, Electronic Communications, and schedules, which are incorporated herein by reference as part of this Agreement, and all Transactions and any credit support or similar agreement between the Parties in respect thereto.

(e) "Base Price" means an amount per MWh in \$US (unless otherwise provided for) equal to the sum of: (i) the charges for the settlement interval at the time of delivery of Electricity as determined by the RTO or Local Utility (if appropriate) controlling or overseeing the location(s) in which the Delivery Point(s) are located, (ii) all costs to deliver Electricity to the Delivery Point(s), and (iii) two dollars and fifty cents (\$2.50) per MWh.

(f) "Business Day" means any day except Saturday, Sunday, or Federal Bank Holidays.

(g) "Buyer's Baseline" means the stipulated MWh usage set forth in each Transaction.

(h) "Buyer's Facilities" means the account(s) identified in Appendix II.

(i) "Buyer's Local Utility" means the electric distribution utility or utilities responsible for delivering electricity to Buyer's Facilities.

(j) "Contract Price" means the price per MWh in \$US (unless otherwise provided for) to be paid by Buyer to Seller for the purchase of Electricity as specified in a Transaction.

(k) "Contract Quantity" means the quantity of Electricity specified in a Transaction.

(l) "Costs" means, with respect to the non-defaulting Party only, brokerage fees, commissions and other similar third party transaction costs and expenses reasonably incurred by such Party either in terminating any arrangement pursuant to which it has hedged its obligations or entering into new arrangements which replace a terminated Transaction; and all reasonable attorneys' fees and expenses incurred by the non-defaulting Party in connection with enforcing its rights under this Agreement in the event of termination.

(m) "Default" means, with respect to a Party (the defaulting Party), the occurrence of any of the following: (i) the failure to make, when due, any payment required pursuant to this Agreement or otherwise, if such failure is not remedied within five (5) Business Days after written notice; (ii) any representation or warranty is false or misleading when made or repeated; (iii) the failure to perform any material covenant or obligation set forth in this Agreement (except to the extent constituting a separate Default) if such failure is not remedied within five (5) Business Days after written notice; (iv) the failure by Buyer to provide Adequate Assurances in accordance with Article 5(e); (v) such Party (or such Party's credit support provider) files a petition or otherwise commences, authorizes or acquiesces to the commencement of a proceeding or cause of action with respect to it under any bankruptcy proceeding or similar Laws for the protection of creditors, or has such a petition filed against it; (vi) such Party makes an assignment or any general arrangement for the benefit of creditors; (vii) such Party otherwise becomes bankrupt or insolvent (however evidenced); (viii) such Party becomes unable to pay its debts as they fall due; (ix) termination of a Transaction prior to its End Date unless otherwise expressly agreed to in the Agreement; or (x) any default under any other agreement between the Parties.

(n) "Delivery Point(s)" means the physical point(s) specified in a Transaction at which Seller shall deliver, or cause to be delivered, Electricity to Buyer.

(o) "Electricity" means electric energy (expressed in MWh) and any related components thereto or products specified in a Transaction.

(p) "Electronic Communication" means communication conducted by electronic means whereby electronic records are created, including without limitation, electronic mail and instant messaging.

(q) "Force Majeure" means events or circumstances, beyond the reasonable control of a Party and not caused by the negligence of such Party, which prevent that Party from performing its obligations under this Agreement, and which the Party claiming Force Majeure is unable to avoid or prevent through the exercise of due diligence. Force Majeure shall include, without limitation, a Force Majeure affecting an RTO or Buyer's Local Utility that in turn prevents a Party's performance of its obligations hereunder. A claim of Force Majeure may not be based on: (i) Buyer's inability to economically use or dispose of Electricity

purchased under this Agreement; (ii) Buyer's closure or material curtailment or discontinuation of operation of any of Buyer's Facilities due to economic circumstance or condition; or (iii) Seller's ability to sell Electricity at a price greater than the Contract Price.

(r) "Gains" means, with respect to a Party, an amount equal to the present value of the economic benefit to it, if any (exclusive of Costs), resulting from the termination of a Transaction, determined in a commercially reasonable manner.

(s) "Governmental Entity" means a municipality, county, governmental board, governmental department, commission, agency, bureau, administrative body, joint action agency, court, or other similar political subdivision or public entity or instrumentality of the United States or one or more states.

(t) "Imaged Document" means any document generated by the Parties which is scanned and stored in electronic form, including, by way of illustration and not limitation, portable document format or similar type (e.g. jpg, tiff, gif).

(u) "Interest Rate" means two percent (2%) per annum over the prime-lending rate as published in *The Wall Street Journal* under "Money Rates"; provided that, the Interest Rate may never exceed the maximum rate permitted by Law.

(v) "Law" means any law, constitution, charter, statute, ordinance, code, rule, regulation, tariff, protocols, decision, order, decree, judgment or other legislative or administrative action of any Governmental Entity, or any interpretation thereof by any court, agency or instrumentality having jurisdiction, as well as all rules, policies and procedures lawfully adopted by an RTO governing or controlling the area in which Buyer's Facilities are located.

(w) "Losses" means, with respect to a Party, an amount equal to the present value of the economic loss to it, if any (exclusive of Costs), resulting from termination of a Transaction, determined in a commercially reasonable manner.

(x) "MWh" means a megawatt-hour of Electricity.

(y) "Off-Peak Hours" means hours not defined as On-Peak Hours.

(z) "On-Peak Hours" means hours determined to be "on peak" by Buyer's regional reliability council of the North American Electric Reliability Council, or any successor entity, governing the area in which Buyer's Facilities are located.

(aa) "RTO" means a power pool, independent system operator, transmission provider, or Buyer's Local Utility acting as the grid manager, or any comparable entity that provides system management and oversight for Electricity delivered to Buyer's Facilities.

(bb) "Settlement Amount" means, with respect to a Transaction, the Losses or Gains, and Costs, which the non-defaulting Party incurs as a result of the termination of such Transaction.

(cc) "Set-off" means offset, combination of accounts, netting, right of retention or withholding, or any similar right.

(dd) "Start Date" means the date specified in a Transaction; provided, that if a Transaction does not specify such a date, then the date upon which all of the conditions set forth under Article 4(a)(i)-(iii) are satisfied.

(ee) "Taxes" means all federal, state and local taxes, assessments, levies, duties, fees, charges or withholdings of any kind, including gross receipts taxes, utility and regulatory taxes, assessments and surcharges however denominated and all penalties, fines, additions to tax, or interest on unpaid taxes, but excluding any taxes on net income.

(ff) "Termination Payment" has the meaning set forth in Article 7(c).

(gg) "Transaction" means an agreement between the Parties for the purchase and sale of Electricity pursuant to this Agreement, which shall include, among other terms, the Electricity product, Contract Price, delivery term, Contract Quantity and Delivery Point(s).

(hh) "Voice Record" means a recorded telephone conversation between representatives of the Parties evidencing the terms of a Transaction.

ARTICLE 12. MISCELLANEOUS

(a) When the singular number is used, it is deemed to include the plural and vice versa. The words "include" and "including" mean "including, without limitation" with respect to whatever follows.

(b) This Agreement and each Transaction is strictly confidential and shall not be disclosed by a Party (except to such Party's Affiliates, employees, lenders, counsel and other advisors, permitted assignees, or prospective purchasers who have agreed to treat such information as confidential) without the prior written consent of the other Party, except as required by Law; provided that Seller may publicize the existence of this Agreement in press releases and sales and marketing materials, and identify Buyer as a customer of Seller and as a reference to third parties. The Parties agree that damages would be an inadequate remedy for breach of this provision and that either Party shall be entitled to equitable relief in connection herewith, provided that any damages shall be limited to actual damages as provided herein.

(c) Unless otherwise specified herein, any notice required or permitted under this Agreement, must be in writing and addressed as provided in Appendix I. Notice by receipt confirmed facsimile, email or hand delivery shall be effective on the Business Day actually received. Notice by overnight United States mail or courier shall be effective on the next Business Day after it was sent. Either Party may change any address listed in Appendix I by providing written notice of same in accordance herewith.

(d) This Agreement contains the complete understanding between the Parties and supersedes all previous discussions, communications, writings and agreements previously executed between the Parties related to the sale and purchase of Electricity. In addition, if the Parties have outstanding Addenda or appendices under an agreement that is superseded by this Agreement, those Addenda and appendices shall be governed by this Agreement. Except to the extent otherwise provided for herein, this Agreement may not be amended, modified or supplemented except in a writing signed by both Parties.

(e) This Agreement (including any Transaction, or portion thereof) may not be assigned or transferred by a Party without the prior written approval of the other Party, which approval shall not be unreasonably withheld, except it may be assigned or transferred without such approval: (i) by either Party to a successor acquiring all or substantially all of the shares and/or the assets (including, without limitation, all or a substantial portion of Seller's portfolio of retail supply contracts) of the transferring Party, whether by merger or acquisition, (ii) by either Party to any Affiliate; or (iii) by Seller in connection with any financing or other financial arrangements involving the accounts, revenues or proceeds hereof; provided, that in the case of items (i) and (ii), the assignee or transferee shall be at least as creditworthy as the assigning or transferring Party and such assignee or transferee shall agree in writing to be bound by the terms and conditions of this Agreement (including all outstanding Transactions). Notwithstanding anything to the contrary in this Agreement, Buyer agrees that Seller may require any approved assignee or transferee to execute a new Electricity Sales and Purchase Agreement, Addendum and/or appendix with Seller, as the case may be, as a condition precedent to the assignment or transfer of any (whole or partial) Transaction.

(f) In the event that an action, suit or other proceeding is brought to enforce or interpret this Agreement or any part hereof or the rights or obligations of any Party to this Agreement, the prevailing Party will be entitled to recover from the other Party reasonable attorneys' fees and direct out-of-pocket costs and disbursements associated with the dispute that are incurred by the prevailing Party.

(g) No waiver by either Party of any right or obligation hereunder, including in respect to any Default by the other Party, shall be considered a waiver of any future right or obligation, whether of a similar or different character. Any waiver shall be in writing.

(h) This Agreement does not grant, create or otherwise provide any rights enforceable by any person or entity not a Party to this Agreement.

(i) This Agreement and all Transactions (including any Addenda) shall form a single integrated agreement between the Parties. Any inconsistency between any terms of this Agreement and any terms of a Transaction shall be resolved in favor of the terms of such Transaction. Upon full execution (or deemed acceptance) of an Addendum, such Addendum (absent manifest error) shall control in the event of any conflict with the terms of a Voice Record or Electronic Communication, or in the event of any conflict with the terms of this Agreement. In the absence of an Addendum, the Voice Record or Electronic Communication shall evidence the terms of the Transaction.

(j) Each Party hereby consents to the recording and storage of Voice Records and Electronic Communication and waives any objection to recording of Voice Records and use of Electronic Communication. An Electronic Communication record shall be deemed received upon arrival at the receiving Party's electronic mailbox or internet address.

(k) THIS AGREEMENT AND THE RIGHTS AND DUTIES OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY AND CONSTRUED, ENFORCED AND PERFORMED IN ACCORDANCE WITH THE LAWS OF THE STATE OF CALIFORNIA, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAW. EACH PARTY WAIVES ITS RESPECTIVE RIGHT TO ANY JURY TRIAL WITH RESPECT TO ANY LITIGATION ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT. THIS SECTION 12(k) SHALL SURVIVE THE EXPIRATION OR TERMINATION OF THIS AGREEMENT FOR ANY REASON.

(l) Buyer covenants that if it is a Governmental Entity it shall not claim immunity on the grounds of sovereignty or similar grounds from enforcement of this Agreement. Buyer further covenants that if it is a Governmental Entity it shall obtain all necessary budgetary approvals, appropriations, and funding for all of its obligations under this Agreement, the failure of which shall not be an excuse for Buyer's performance hereunder.

(m) Any provision declared or rendered unlawful, invalid, void or unenforceable by any applicable court of law or regulatory agency will not otherwise affect any other provision, agreement, covenant or remaining lawful obligations under this Agreement; provided, that in any such event, the Parties shall use good faith efforts to reform this Agreement in order to give effect to the original intention of the Parties.

(n) This Agreement may be signed in counterparts, each of which will constitute an original and together will constitute one and the same Agreement. The Parties agree that if a copy of this Agreement, including any appendix and/or Addendum, is executed by a Party and transmitted to the other Party by facsimile, the copy received shall be deemed for all legal purposes to be an original executed by the transmitting Party.

(o) The Parties agree that if a copy of this Agreement, including any appendix and/or Addendum, is executed by a Party and transmitted to the other Party in the form of an Imaged Document, to which a Party has affixed its written or electronic signature, the copy received by the other Party shall be deemed for all legal purposes to be as valid and authentic as an original executed by the transmitting Party, and will be given the same legal effect as a written and signed paper original, and may be introduced as evidence in any proceeding as if such were original business records. Neither Party shall contest the admissibility of such Imaged Documents as evidence in any proceeding, and waive any objection they may have to the use of same.

**For SELLER:
CALPINE ENERGY SOLUTIONS, LLC**

By: _____

Title: _____

**For BUYER:
CITY OF URBANA**

By: _____

Title: _____

APPENDIX I

FORM OF NOTICE FOR THE ELECTRICITY SALE AND PURCHASE AGREEMENT

BETWEEN CALPINE ENERGY SOLUTIONS, LLC ("SELLER")
AND City of Urbana ("BUYER")
AS OF October 16, 2018 ("EFFECTIVE DATE")
Date of Last Revision

SELLER	BUYER
ALL FORMAL NOTICES:	ALL FORMAL NOTICES:
Calpine Energy Solutions, LLC Attention: Legal Department 401 West A Street, Suite 500 San Diego, CA 92101 Telephone: (619) 684 8251 Facsimile: (619) 684 8350 Email: CSContracts@CalpineSolutions.com	City of Urbana Attention: <Address> <City, State Zip> Telephone: Facsimile: Email:
SALES REPRESENTATIVE:	BUYER'S REPRESENTATIVE:
Chip Martin Calpine Energy Solutions, LLC 401 West A Street, Suite 500 San Diego, CA 92101 Telephone: 217 875-7752 Facsimile: 630 390-2750 Email: Chip.Martin@calpinesolutions.com	<Name Of Contact (MUST be employee of Buyer)> City of Urbana <Address> <City, State Zip> Telephone: Facsimile: Email:
SCHEDULING:	AUTHORIZED THIRD-PARTY RECIPIENT FOR NOTICES:
E-Mail by Region: ERCOT: CSERCOTDesk@CalpineSolutions.com MIDWEST: MWNEOps@CalpineSolutions.com NORTHEAST: MWNEOps@CalpineSolutions.com WEST: NESWestPWROps@CalpineSolutions.com	<Company Name> Attention: <Address> <City, State Zip> Telephone: Facsimile: Email:
REMITTANCE BY CHECK (send to nearest location):	INVOICES:
Calpine Energy Solutions, LLC Operating/Lockbox Account 771045440 #24220 Network Place Chicago, IL 60673-242 P.O. Box #730964 Dallas, TX 75373-0964 P.O. Box #100967 Pasadena, CA 91189-0967	City of Urbana Attention: <Address> <City, State ZIP> Telephone: Facsimile: Billing Method: Individual Copies To: If Applicable
REMITTANCE BY WIRE TRANSFER:	
JP Morgan Chase Bank New York, New York Bank ABA: 021000021 Account Number: 771045440	Federal Tax Identification No.: Duns Number: