



TIPTON MUNICIPAL UTILITIES

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IURC 30-Day Filing No.: 50222
Indiana Utility Regulatory Commission

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Via Electronic Filing – 30 Day Filings – Electric

August 15, 2018

Brenda A. Howe
Secretary of the Commission
Indiana Utility Regulatory Commission
101 West Washington St., Suite 1500 E
Indianapolis, IN 46204

RE: Tipton Municipal Electric Utility 30 Day Filing Pursuant to 170 IAC 1-6-1 et seq.

Dear Ms. Howe:

Pursuant to 170 IAC 1-6-5, please find enclosed the following 30 Day Filing by Tipton Municipal Electric Utility: Determination of the rate adjustments for the Purchase Power Cost Adjustment Tracking Factor (Appendix A) for the three months of October, November and December 2018. The tariff sheets and work papers are attached. The purpose of this filing is to implement an average change in rates for electric service charged by its supplier, Indiana Municipal Power Agency. This filing is allowed under 170 IAC 1-6-3 of Rule 6 because it entails Cause No. 36835-S3 dated 12-13-1989, the commission has already approved or accepted the procedure for the change.

The person at the Tipton Municipal Electric Utility to be contacted regarding this filing is:

Rex A. Boyer
(765) 675-7292
P.O. Box 288
Tipton, Indiana 46072
rboyer@tusb.com

Affected customers have been notified as required under 170 IAC 1-6-6. Tipton Municipal Utilities does not have a web-site. Notice shall be published in the Tipton Tribune. The required Proof of Publication of Legal Notice will be forwarded as soon as it is available from the publisher. Notice has been posted in a public place in the Tipton Municipal Electric Utility customer service office. A copy of the notice is attached.

I verify that notice has been provided as stated in this letter and that this letter and the attached documents are true and accurate to the best of my knowledge, information, and belief.

Sincerely,


Rex A. Boyer
General Manager

LEGAL NOTICE

Notice is hereby given that the municipal electric utility of the City of Tipton, Indiana, under and pursuant to the Public Service Commission Act, as amended, and Commission Order in Cause no. 36835-S3, has filed with the Indiana Utility Regulatory Commission for its approval, the following incremental changes to the Rate Adjustment factors by Rate Schedules:

Residential -	Rate A	Decrease	\$0.000397	per Kwh
Commercial -	Rate B	Decrease	\$0.000981	per Kwh
General & Industrial Power -	Rate C	Decrease	\$0.000357	per Kwh
Primary Power -	Rate D	Decrease	\$0.000997	per Kwh

Rate Adjustments applicable to the Rate Schedules are as follows:

Residential -	Rate A	\$0.033288	per Kwh
Commercial -	Rate B	\$0.035002	per Kwh
General & Industrial Power -	Rate C	\$0.037349	per Kwh
Primary Power -	Rate D	\$0.030500	per Kwh

The accompanying changes in schedules of rates based solely upon the changes in the cost of purchased power and energy purchased by this utility, computed in accordance with the Indiana Utility Regulatory Commission Order in Cause No. 36835-S3, and dated December 13, 1989. If approved, this change of rate shall take effect for the bills to be rendered beginning with the October 2018 billing cycle. Objections to the changes can be made at either of the addresses below.

Indiana Utility Regulatory Commission
101 West Washington Street
Suite 1500 East
Indianapolis, IN 46204-3407

Office of Utility Consumer Counselor
115. West Washington Street
Suite 1500 South
Indianapolis, IN 46204-3407

Tipton Municipal Electric Utility

TIPTON MUNICIPAL ELECTRIC UTILITY

ENERGY COST ADJUSTMENT TRACKING FACTOR
4TH QUARTER, 2018

BILLING AND USAGE PERIOD: OCTOBER, NOVEMBER AND DECEMBER 2018

TIPTON CITY (INDIANA) MUNICIPAL ELECTRIC UTILITY

APPENDIX A

RATE ADJUSTMENT (Applicable to all metered rates)

The Rate Adjustment shall be on the basis of a Purchased Power Cost Adjustment Tracking Factor occasioned solely by changes in the cost of purchased power and energy, in accordance with the order of the Indiana Utility Regulatory Commission, approved December 13, 1989, in Cause No. 36835-S3 as follows:

<u>Rate Code</u>		<u>ECA Tracking Factor</u>
RATE - A	\$	0.033288 Per Kwh
RATE - B		0.035002 Per Kwh
RATE - C		0.037349 Per Kwh
RATE - D		0.030500 Per Kwh

MONTH'S EFFECTIVE:

OCT 2018

NOV 2018

DEC 2018

TO THE INDIANA UTILITY REGULATORY COMMISSION:

1. Tipton Municipal Electric Utility, Tipton, Indiana, under and pursuant to the Indiana Utility Regulatory Commission Act, as amended, and Commission Order in Cause No. 36835-S3, hereby files with the Indiana Utility Regulatory Commission for approval, a change in its rates for electricity sold in the amount of:

<u>Rate Code</u>	<u>Change in ECA Tracking Factor</u>
RATE - A	\$ (0.000397) Per Kwh
RATE - B	\$ (0.000981) Per Kwh
RATE - C	\$ (0.000357) Per Kwh
RATE - D	\$ 0.000997 Per Kwh

2. The accompanying changes in schedules of rates are based solely upon the change in the cost of purchased power and energy purchased by this utility computed in accordance with the Indiana Utility Regulatory Commission Order in Cause No. 36835-S3 dated December 13, 1989.
3. All of the matters and facts stated herein and in the attached exhibits are true and correct. If approved, this change of rate shall take effect for the next practical consumption period following the date of such approval, or for the next practical consumption period following the effective date of change in Applicant's cost of purchased firm power, whichever is later.

TIPTON MUNICIPAL ELECTRIC UTILITY

BY:

STATE OF INDIANA)
COUNTY OF TIPTON)

SS:

Personally appeared before me, a Notary Public in and for said county and state, this ____ day of _____, 2018 Rex Boyer, who, after having been duly sworn according to law, stated that he is an employee of Tipton Utilities; Tipton, Indiana, that he has read the matters and facts stated above, and in all exhibits attached hereto, and that the same are true; that he is duly authorized to execute this instrument for and on behalf of the applicant herein.

Debra S. Book, Notary Public

My County of Residence: Tipton

My Commission expires:

PRESS RELEASE IN REGARD TO CHANGE IN ELECTRIC
RATES FOR THE CITY OF TIPTON, INDIANA

QUARTERLY ENERGY COST ADJUSTMENT FACTOR

On October 1, 2018 the Indiana Municipal Power Agency (IMPA) is anticipated to change its energy cost adjustment rates to its members.

The City of Tipton will file with the Indiana Utility Regulatory Commission, for its approval, a change in its schedule of rates for electricity sold to reflect the change in the cost of power purchased from the Indiana Municipal Power Agency (IMPA) together with the reconciliation of electric costs and revenues from prior periods.

Upon approval of the Indiana Utility Regulatory Commission, a change per kilowatt hour of approximately:

RATE - A	\$	(0.000397) / Kwh
RATE - B	\$	(0.000981) / Kwh
RATE - C	\$	(0.000357) / Kwh
RATE - D	\$	0.000997 / Kwh

be applied for all bills of the next practical consumption period following the date of such approval or for the next practical consumption period following the effective date of change in the cost of purchased firm power, whichever is later. Residential rates have a change of approximately (\$0.40) for every 1,000 kilowatt hours consumed.

Assuming a typical or average residential monthly bill is for approximately 700 kilowatt hours consumption, this will amount to a change per month of (\$0.28). This change stated as a percentage of the monthly bill will vary from individual to individual depending upon the actual amount of energy consumed.

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

Filing No. 4TH QTR 2018

Page 1 of 3

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
OCT 2018 NOV 2018 DEC 2018

LINE NO.	DESCRIPTION		DEMAND RELATED (A)	ENERGY RELATED (B)	LINE NO.
1	INCREMENTAL CHANGE IN BASE RATE (a)		11.120	0.015982	1
2	ESTIMATED SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+	0.000		2
3	ESTIMATED PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	(0.939)	(0.004650)	3
4	ESTIMATED TOTAL CHANGE IN PURCHASED POWER RATE		10.181	0.011332	4
5	EST CHANGE IN PURCHASED POWER RATE ADJ FOR LOSSES & UTILITY RECEIPTS TAX (d)		10.675	0.011882	5
6	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (e)	+	0.000	0.000000	6
7	ESTIMATED TOTAL RATE ADJUSTMENT		10.675	0.011882	7
8	ESTIMATED AVERAGE BILLING UNITS (f)	*	21,230	12,046,578	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 226,630.25	\$ 143,137.44	9

(a) Exhibit I, Line 3

(b) Exhibit II, Line 9 N/A

(c) Exhibit III, Column E, Lines 3 and 5

(d) Line 4 divided by (1 - line loss factor)(0.986)

(e) Tracking Factor effective prior to January 27, 1983. This factor is zero if new rates have been filed and approved since January 27, 1983.

(f) Exhibit III, Column E, Lines 1 and 2

(g) Line 7 times Line 8

= 96.72%
95.37%

CITY OF TIPTON, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
OCT 20 NOV 2018 DEC 2018

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR	KWH ENERGY ALLOCATOR	ALLOCATED ESTIMATED KWH PURCHASED (b)	ALLOCATED ESTIMATED KWH PURCHASED (c)	INCREMENTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			LINE NO.
		(%) (a)	(%) (a)	(C)	(D)	DEMAND (d)	ENERGY (e)	TOTAL (G)	
1	RATE - A	34.096	33.919	7,238.6	4,086,079	\$ 77,271.85	\$ 48,550.79	\$ 125,822.64	1
2	RATE - B	23.147	21.193	4,914.1	2,553,031	52,458.10	30,335.12	82,793.22	2
3	RATE - C	14.037	11.801	2,980.1	1,421,617	31,812.09	16,891.65	48,703.74	3
4	RATE - D	27.776	32.013	5,896.8	3,856,471	62,948.82	45,822.59	108,771.41	4
5	FLAT RATES	0.944	1.074	200.4	129,380	2,139.39	1,537.30	3,676.69	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	21,230.0	12,046,578	\$ 226,630.25	\$ 143,137.44	\$ 369,767.69	10

- (a) From Cost of Service Study Based on Twelve Month Period
01/01/97 to 12/31/97
(b) Page 1 of 3, Column A, Line 8 times Page 2 of 3, Column A
(c) Page 1 of 3, Column B, Line 8 times Page 2 of 3, Column B
(d) Page 1 of 3, Column A, Line 9 times Page 2 of 3, Column A
(e) Page 1 of 3, Column B, Line 9 times Page 2 of 3, Column B

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
OCT 2018 NOV 2018 DEC 2018

LINE NO.	RATE SCHEDULE	PLUS VARIANCE (a)		TOTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX			RATE ADJUSTMENT FACTOR PER KWH (d)			LINE NO.
		DEMAND (A)	ENERGY (B)	DEMAND (b) (C)	ENERGY (c) (D)	TOTAL (E)	DEMAND (F)	ENERGY (G)	TOTAL (H)	
1	RATE - A	\$ 9,193.81	\$ 1,000.64	\$ 86,465.66	\$ 49,551.43	\$ 136,017.09	\$ 0.021161	\$0.012127	\$0.033288	1
2	RATE - B	5,865.47	701.73	58,323.57	31,036.85	89,360.42	0.022845	0.012157	0.035002	2
3	RATE - C	4,007.38	384.92	35,819.47	17,276.57	53,096.04	0.025196	0.012153	0.037349	3
4	RATE - D	9,823.81	(974.18)	72,772.63	44,848.41	117,621.04	0.018870	0.011629	0.030500	4
5	FLAT RATES	230.42	36.73	2,369.81	1,574.03	3,943.84	0.018317	0.012166	0.030483	5
6										6
7										7
8										8
9										9
10	TOTAL	<u>\$ 29,120.90</u>	<u>\$ 1,149.84</u>	<u>\$ 255,751.15</u>	<u>\$ 144,287.29</u>	<u>\$ 400,038.44</u>	<u>\$ 0.021230</u>	<u>\$0.011977</u>	<u>\$0.033208</u>	10

(a) Exhibit IV, Page 4 of 7, Columns D and E / (1 - loss factor)(.986) =

95.37%

Plus, the Special Variance from Page 2A of 3, Columns C and D

(b) Page 2 of 3, Column E plus Page 2a of 3, Column F plus Page 3 of 3, Column A.

(c) Page 2 of 3, Column F plus Page 2a of 3, Column G plus Page 3 of 3, Column B.

(d) Page 3 of 3, Columns C, D and E divided by Page 2 of 3, Column D

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF INCREMENTAL CHANGE IN BASE RATES

LINE NO.	DESCRIPTION	DEMAND RELATED	ENERGY RELATED	LINE NO.
1	BASE RATE EFFECTIVE January 1, 2018 (a)	\$ 24.602	\$ 0.031875	1
2	BASE RATE EFFECTIVE January 1, 2004 (b)	- 13.482	0.015893	2
3	INCREMENTAL CHANGE IN BASE RATE (c)	<u>\$11.120</u>	<u>\$0.015982</u>	3

- (a) IMPA rate effective for the period covered by this filing. The Base Rate includes the applicable Area Adjustment and Delivery Voltage Adjustment.
- (b) Base purchased power rate including Area and Voltage Adjustments effective at the time of the member's last approved rate case was filed or January 27, 1983, whichever is more recent.
Tipton base rates and charges were approved by the Indiana Utility Regulatory Commission on August 11, 2004 in Cause No. 42589.
- (c) Line 1 - Line 2

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

ESTIMATION OF ENERGY COST ADJUSTMENT FOR THE THREE MONTHS OF:
OCT 2018 NOV 2018 DEC 2018

LINE NO.	DESCRIPTION	OCT 2018 (A)	NOV 2018 (B)	DEC 2018 (C)	TOTAL (D)	ESTIMATED 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND	23,470	17,158	23,062	63,690	21,230	1
2	KWH ENERGY	12,027,662	11,351,071	12,761,000	36,139,733	12,046,578	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ (0.939)	\$ (0.939)	\$ (0.939)		\$ (0.939)	3
4	CHARGE (a)	\$ (22,038.33)	\$ (16,111.36)	\$ (21,655.22)	\$ (59,804.91)	\$ (19,934.97)	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ (0.004650)	\$ (0.004650)	\$ (0.004650)		\$ (0.004650)	5
6	CHARGE (b)	\$ (55,928.63)	\$ (52,782.48)	\$ (59,338.65)	\$ (168,049.76)	\$ (56,016.59)	6

(a) Line 1 times Line 3

(b) Line 2 times Line 5

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
APRIL 2018 MAY 2018 JUNE 2018

LINE NO.	DESCRIPTION		DEMAND RELATED	ENERGY RELATED	LINE NO.
			(A)	(B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)		\$ 11.120	\$ 0.015982	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+			2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	(0.939)	(0.004650)	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO IMPA MEMBERSHIP (d)	+	0.000	0.000000	4
5	TOTAL RATE ADJUSTMENT (e)		10.181	\$ 0.011332	5
6	ACTUAL AVERAGE BILLING UNITS (f)	*	23,981	11,779,278	6
	LINE 5 * LINE 6		\$ 244,150.56	\$ 133,482.78	
	OTHER CHARGES		-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 244,150.56	\$ 133,482.78	7

(a) Page 1 of 3, Line 1 of the Tracker filing for the months of:

	APRIL 2018	MAY 2018	JUNE 2018
Base Rate Effective 01/01/2018		minus	Base Rate Effective 01/01/2004
Demand	\$24.602		\$13.482
Energy	\$0.031875		\$0.015893

(b) Exhibit IV, Page 5 of 7, Column E, Line 9

(c) Exhibit IV, Page 6 of 7, Column E, Lines 4 and 6

(d) This line is zero if new rates have been approved since January 27, 1983.

(e) Sum of Lines 1 through 4

(f) Exhibit IV, Page 6 of 7, Column E, Lines 1 and 2.

(g) Line 5 times Line 6

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
APRIL 2018 MAY 2018 JUNE 2018

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR	KWH ENERGY ALLOCATOR	ALLOCATED ACTUAL KW PURCHASED (b)	ALLOCATED ACTUAL KWH PURCHASED (c)	INCREMENTAL CHANGE IN PURCHASED POWER COST			LINE NO.
		(%) (a) (A)	(%) (a) (B)	(C)	(D)	DEMAND (d) (E)	ENERGY (e) (F)	TOTAL (G)	
1	RATE - A	27.744	26.769	6,653.3	3,153,156	\$ 67,736.83	\$ 35,731.56	\$ 103,468.39	1
2	RATE - B	16.959	15.060	4,067.0	1,773,946	41,405.84	20,102.35	61,508.19	2
3	RATE - C	12.008	9.792	2,879.7	1,153,374	29,318.69	13,070.03	42,388.72	3
4	RATE - D	42.634	47.657	10,224.0	5,613,673	104,090.12	63,614.14	167,704.26	4
5	FLAT RATES	0.655	0.723	157.1	85,130	1,599.08	964.69	2,563.77	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	23,981.0	11,779,278	\$ 244,150.56	\$ 133,482.78	\$ 377,633.34	10

(a) Page 2 of 3, Columns A and B of tracker filed for the months of

(b) Exhibit IV, Page 6 of 7, Column E, Line 1 times Exhibit IV, Page 2 of 7, Column A

(c) Exhibit IV, Page 6 of 7, Column E, Line 2 times Exhibit IV, Page 2 of 7, Column B

(d) Exhibit IV, Page 1 of 7, Column A, Line 7 times Exhibit IV, Page 2 of 7, Column A

(e) Exhibit IV, Page 1 of 7, Column B, Line 7 times Exhibit IV, Page 2 of 7, Column B

APRIL 2018

MAY 2018

JUNE 2018

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
ARPIL 2018 MAY 2018 JUNE 2018

LINE NO.	RATE SCHEDULE	ACTUAL AVERAGE KWH SALES (a) (A)	DEMAND ADJUSTMENT FACTOR PER KWH (b) (B)	ENERGY ADJUSTMENT FACTOR PER KWH (c) (C)	INCREMENTAL KW DEMAND COST BILLED BY MEMBER (d) (D)	INCREMENTAL KWH ENERGY COST BILLED BY MEMBER (e) (E)	LESS PREV. VARIANCE - SYSTEM SALES FROM FILING NUMBER ARPIL 2018		LINE NO.
							DEMAND (f) (F)	ENERGY (g) (G)	
1	RATE - A	3,000,181	0.021073	0.012481	\$ 62,337.69	\$ 36,921.03	\$ 3,369.00	\$ 2,143.78	1
2	RATE - B	1,687,883	0.022906	0.012477	38,121.37	20,764.88	2,309.43	1,331.77	2
3	RATE - C	1,097,418	0.025448	0.012774	27,536.11	13,822.16	2,039.26	1,119.23	3
4	RATE - D	5,341,327	0.019112	0.012943	100,654.27	68,164.94	5,933.12	3,621.72	4
5	FLAT RATES	81,000	0.018398	0.012459	1,469.37	995.05	90.04	65.39	5
6									6
7									7
8									8
9									9
10	TOTAL	11,207,809			\$ 230,118.81	\$ 140,668.06	\$ 13,740.85	\$ 8,281.89	10

(a) Exhibit IV, Page 7 of 7, Column E

(b) Page 3 of 3, Column F of Tracker Filing for the three months of

(c) Page 3 of 3, Column G of Tracker Filing for the three months of

(d) Column A times Column B times the Utility Receipts Tax Factor of

(e) Column A times Column C times the Utility Receipts Tax Factor of

(f) Exhibit IV, Page 4 of 7, Column D of Tracker Filing for the three months of

(g) Exhibit IV, Page 4 of 7, Column E of Tracker Filing for the three months of

ARPIL 2018	MAY 2018	JUNE 2018
ARPIL 2018	MAY 2018	JUNE 2018
0.986		
0.986		
ARPIL 2018	MAY 2018	JUNE 2018
ARPIL 2018	MAY 2018	JUNE 2018

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
APRIL 2018 MAY 2018 JUNE 2018

LINE NO.	RATE SCHEDULE	NET INCREMENTAL COST BILLED BY MEMBER			VARIANCE			LINE NO.
		DEMAND (a) (A)	ENERGY (b) (B)	TOTAL (C)	DEMAND (c) (D)	ENERGY (c) (E)	TOTAL (c) (F)	
1	RATE - A	\$ 58,968.69	\$ 34,777.25	\$ 93,745.94	\$ 8,768.14	\$ 954.31	\$ 9,722.45	1
2	RATE - B	35,811.94	19,433.11	55,245.05	5,593.90	669.24	6,263.14	2
3	RATE - C	25,496.85	12,702.93	38,199.78	3,821.84	367.10	4,188.94	3
4	RATE - D	94,721.15	64,543.22	159,264.37	9,368.97	(929.08)	8,439.89	4
5	FLAT RATES	1,379.33	929.66	2,308.99	219.75	35.03	254.78	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 216,377.96</u>	<u>\$ 132,386.17</u>	<u>\$ 348,764.13</u>	<u>\$ 27,772.60</u>	<u>\$ 1,096.60</u>	<u>\$ 28,869.20</u>	10

(a) Column D minus Column F from Exhibit IV, Page 3 of 7

(b) Column E minus Column G from Exhibit IV, Page 3 of 7

(c) Columns E, F, and G from Exhibit IV, Page 2 of 7 minus Columns A, B, and C

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL ENERGY COST ADJUSTMENT FOR THE THREE MONTHS OF
APRIL 2018 MAY 2018 JUNE 2018

LINE NO.	DESCRIPTION	APRIL 2018 (A)	MAY 2018 (B)	JUNE 2018 (C)	TOTAL (D)	ACTUAL 3 MONTH AVERAGE (E)	LINE NO.
	PURCHASED POWER FROM IMPA						
1	KW DEMAND (a)	20,580	24,509	26,854	71,943	23,981	1
2	KWH ENERGY (a)	10,789,278	11,719,589	12,828,967	35,337,834	11,779,278	2
	INCREMENTAL PURCHASED POWER COSTS						
	DEMAND RELATED						
3	ECA FACTOR PER KW (a)	\$ (0.939)	\$ (0.939)	\$ (0.939)		\$ (0.939)	3
4	CHARGE (b)	\$ (19,324.62)	\$ (23,013.95)	\$ (25,215.91)	\$ (67,554.48)	\$ (22,518.16)	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH (a)	\$ (0.004650)	\$ (0.004650)	\$ (0.004650)		\$ (0.004650)	5
6	CHARGE (c)	\$ (50,170.14)	\$ (54,496.09)	\$ (59,654.70)	\$ (164,320.93)	\$ (54,773.64)	6

(a) From IMPA bills for the months
(b) Line 1 times Line 3
(c) Line 2 times Line 5

APRIL 2018 MAY 2018 JUNE 2018

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF
APRIL 2018 MAY 2018 JUNE 2018

LINE NO.	RATE SCHEDULE	APRIL 2018 (A)	MAY 2018 (B)	JUNE 2018 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	3,248,579	3,055,407	2,696,556	9,000,542	3,000,181	1
2	RATE - B	1,655,254	1,632,051	1,776,344	5,063,649	1,687,883	2
3	RATE - C	1,262,051	1,122,409	907,794	3,292,254	1,097,418	3
4	RATE - D	4,421,397	5,898,573	5,704,010	16,023,980	5,341,327	4
5	FLAT RATES	81,000	81,000	81,000	243,000	81,000	5
6							6
7							7
8							8
9							9
10	TOTAL	<u>10,668,281</u>	<u>11,789,440</u>	<u>11,165,704</u>	<u>33,623,425</u>	<u>11,207,809</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

	APRIL 2018	MAY 2018	JUNE 2018				
Rate Schedule	Average Sales	Percent of Total	kWh Energy Factors	Variance	kW Demand Factors	Adjusted Factors	kW Demand Allocator for 2009
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
RATE - A	3,000,181	26.769%	33.919%	-21.081%	34.096%	26.908%	27.744%
RATE - B	1,687,883	15.060%	21.193%	-28.939%	23.147%	16.448%	16.959%
RATE - C	1,097,418	9.792%	11.801%	-17.028%	14.037%	11.647%	12.008%
RATE - D	5,341,327	47.657%	32.013%	48.868%	27.776%	41.350%	42.634%
FLAT RATES	81,000	0.723%	1.074%	-32.709%	0.944%	0.635%	0.655%
							0.000%
	11,207,809	100.000%	100.000%		100.000%	96.988%	100.000%

(A) From utility billing records

(B) (A)/total of column (A)

(C) Taken from last cost of service study.

(D) Column (B)/Column (C)

(E) Taken from last cost of service study

(F) (1 + Column (D)) * (Column (E))

(G) Column (F)/total of Column (F)

**INDIANA MUNICIPAL POWER AGENCY
ECA ESTIMATES FOR OCTOBER, NOVEMBER and DECEMBER
2018 - 4TH QUARTER**

	OCT	NOV	DEC	OCT	NOV	DEC
	<u>\$/kW-month</u>			<u>\$/kWh</u>		
IMPA's Energy Cost Adjustment	(0.939)	(0.939)	(0.939)	(0.004650)	(0.004650)	(0.004650)
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for						
	<u>kW</u>			<u>kWh</u>		
TIPTON	23,470	17,158	23,062	12,027,662	11,351,071	12,761,000



IMPA

INDIANA MUNICIPAL POWER AGENCY

Tipton Municipal Utilities
P.O. Box 288
Tipton, IN 46072

Due Date:	Amount Due:
6/13/2018	\$ 780,722.64

Billing Period: April 1 to 30, 2018

Invoice No: INV0008486
Invoice Date: 5/14/2018

Summary of Charges	
Demand Charges:	\$ 486,984.54
Energy Charges:	\$ 293,738.10
Subtotal - Purchased Power Charges*:	\$ 780,722.64
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 780,722.64

*Average Purchased Power Cost: 7.24 cents per kWh

Due Date:	Amount Due:
6/13/2018	\$ 780,722.64

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 06/13/18
Questions, please call: 317-573-9955

Send ACH or Wire payments to:
PNC Bank
ABA# 071921891 (ACH) or ABA# 041000124 (Wire)
Bank Account 4803452201

- OR -

Send checks to:
Indiana Municipal Power Agency
P.O. Box 772880
Chicago, IL 60677-2880

Indiana Municipal Power Agency - Billing Detail
Tipton Municipal Utilities
Billing Period: April 1 to 30, 2018

Due Date:	Amount Due:
6/13/2018	\$ 780,722.64

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	20,580	4,300	97.89%	04/04/18	1000	72.81%
CP Billing Demand:	20,580	4,300	97.89%	04/04/18	1000	72.81%
kvar at 97% PF:		5,158				
Reactive Demand:		-				
Demand Charges	Rate		Units		Charge	
Base Demand Charge:	\$	23.614 / kW x	20,580		\$	485,976.12
ECA Demand Charge:	\$	(0.939) / kW x	20,580		\$	(19,324.62)
Primary Voltage Charge - Less than 15 kV:	\$	0.988 / kW x	20,580		\$	20,333.04
Total Demand Charges:					\$	486,984.54

Energy						
Energy Information	kWh					
Getrag Banks #1-4:	1,367,339					
Tipton #1:	5,043,655					
Tipton #2:	4,375,844					
Tipton Dist. Gen.:	2,440					
Total Energy:	10,789,278					
Energy Charges	Rate		Units		Charge	
Base Energy Charge:	\$	0.031875 / kWh x	10,789,278		\$	343,908.24
ECA Energy Charge:	\$	(0.004650) / kWh x	10,789,278		\$	(50,170.14)
Total Energy Charges:					\$	293,738.10

Other Charges and Credits						
Other Charges and Credits						
Total Other Charges and Credits:					\$	-

History			
	Apr 2018	Apr 2017	2018 YTD
Max Demand (kW):	20,580	19,023	25,241
CP Demand (kW):	20,580	18,020	24,461
Energy (kWh):	10,789,278	10,150,559	48,600,898
CP Load Factor:	72.81%	78.24%	
HDD/CDD (Indianapolis):	544/7	190/30	

* Getrag: units adjusted by loss factors of 0.997 for demand & 0.998 for energy.

IMPACT Delivery Point Details

Tipton Municipal Utilities

Billing Period: April 1, 2018 to April 30, 2018

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 04/04/18 at 1000 EST				Demand at IMPA's Coincident Peak on 04/04/18 at 1000 EST			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	10,789,278						20,580	4,300	21,024	97.89%	20,580	4,300	21,024	97.89%
* Tipton Dist. Gen.	2,440	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,043,655	04/04/18 at 1000 EST	9,859	1,536	9,978	98.81%	9,859	1,536	9,978	98.81%	9,859	1,536	9,978	98.81%
* Tipton #2	4,375,844	04/04/18 at 0800 EST	8,429	1,325	8,533	98.79%	8,304	1,382	8,418	98.64%	8,304	1,382	8,418	98.64%
* Getrag Bank #1	36,191	04/17/18 at 1200 EST	144	29	147	98.03%	65	14	66	97.76%	65	14	66	97.76%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	407,916	04/03/18 at 1600 EST	840	540	999	84.12%	636	528	827	76.94%	636	528	827	76.94%
* Getrag Bank #4	923,232	04/11/18 at 2100 EST	1,764	912	1,986	88.83%	1,716	840	1,911	89.82%	1,716	840	1,911	89.82%



IMPA

INDIANA MUNICIPAL POWER AGENCY

Tipton Municipal Utilities
P.O. Box 288
Tipton, IN 46072

Due Date:	Amount Due:
7/16/2018	\$ 899,022.28

Billing Period: May 1 to 31, 2018

Invoice No: INV0008567
Invoice Date: 6/14/2018

Summary of Charges

Demand Charges:	\$ 579,956.47
Energy Charges:	\$ 319,065.81
Subtotal - Purchased Power Charges*:	\$ 899,022.28
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 899,022.28

*Average Purchased Power Cost: 7.67 cents per kWh

Due Date:	Amount Due:
7/16/2018	\$ 899,022.28

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 07/16/18
Questions, please call: 317-573-9955

Send ACH or Wire payments to:
PNC Bank
ABA# 071921891 (ACH) or ABA# 041000124 (Wire)
Bank Account 4803452201

- OR -

Send checks to:
Indiana Municipal Power Agency
P.O. Box 772880
Chicago, IL 60677-2880

Indiana Municipal Power Agency - Billing Detail
Tipton Municipal Utilities
Billing Period: May 1 to 31, 2018

Due Date:	Amount Due:
7/16/2018	\$ 899,022.28

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	24,896	5,825	97.37%	05/31/18	1600	63.27%
CP Billing Demand:	24,509	5,789	97.32%	05/29/18	1500	64.27%
kvar at 97% PF:		6,143				
Reactive Demand:		-				
Demand Charges	Rate		Units		Charge	
Base Demand Charge:	\$	23.614 / kW x	24,509		\$	578,755.53
ECA Demand Charge:	\$	(0.939) / kW x	24,509		\$	(23,013.95)
Primary Voltage Charge - Less than 15 kV:	\$	0.988 / kW x	24,509		\$	24,214.89
Total Demand Charges:					\$	579,956.47

Energy						
Energy Information	kWh					
Getrag Banks #1-4:	1,691,559					
Tipton #1:	5,443,404					
Tipton #2:	4,584,106					
Tipton Dist. Gen.:	520					
Total Energy:	11,719,589					
Energy Charges	Rate		Units		Charge	
Base Energy Charge:	\$	0.031875 / kWh x	11,719,589		\$	373,561.90
ECA Energy Charge:	\$	(0.004650) / kWh x	11,719,589		\$	(54,496.09)
Total Energy Charges:					\$	319,065.81

Other Charges and Credits						
Other Charges and Credits						
Total Other Charges and Credits:					\$	-

History			
	May 2018	May 2017	2018 YTD
Max Demand (kW):	24,896	22,461	25,241
CP Demand (kW):	24,509	22,282	24,509
Energy (kWh):	11,719,589	11,215,638	60,320,487
CP Load Factor:	64.27%	67.65%	
HDD/CDD (Indianapolis):	4/240	147/74	

IMP A Delivery Point Details

Tipton Municipal Utilities

Billing Period: May 1, 2018 to May 31, 2018

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 05/31/18 at 1600 EST				Demand at IMPA's Coincident Peak on 05/29/18 at 1500 EST			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	11,719,589						24,896	5,825	25,568	97.37%	24,509	5,789	25,183	97.32%
* Tipton Dist. Gen.	520	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,443,404	05/31/18 at 1300 EST	12,355	2,016	12,518	98.69%	12,144	1,498	12,236	99.25%	11,731	1,459	11,821	99.24%
* Tipton #2	4,584,106	05/23/18 at 1500 EST	16,704	2,198	16,848	99.15%	9,754	2,544	10,080	96.76%	9,869	2,554	10,194	96.81%
* Getrag Bank #1	22,839	05/09/18 at 0800 EST	72	22	75	95.64%	22	7	23	95.29%	29	-	29	100.00%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	502,152	05/31/18 at 1600 EST	960	660	1,165	82.40%	960	660	1,165	82.40%	828	648	1,051	78.75%
* Getrag Bank #4	1,166,568	05/31/18 at 2100 EST	2,160	1,284	2,513	85.96%	2,016	1,116	2,304	87.49%	2,052	1,128	2,342	87.63%



IMPA

INDIANA MUNICIPAL POWER AGENCY

Tipton Municipal Utilities
P.O. Box 288
Tipton, IN 46072

Due Date:	Amount Due:
8/15/2018	\$ 984,714.82

Billing Period: June 1 to 30, 2018

Invoice No: INV0008655
Invoice Date: 7/16/2018

Summary of Charges	
Demand Charges:	\$ 635,446.20
Energy Charges:	\$ 349,268.62
Subtotal - Purchased Power Charges*:	\$ 984,714.82
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 984,714.82

*Average Purchased Power Cost: 7.68 cents per kWh

Due Date:	Amount Due:
8/15/2018	\$ 984,714.82

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 08/15/18
Questions, please call: 317-573-9955

Send ACH or Wire payments to:
PNC Bank
ABA# 071921891 (ACH) or ABA# 041000124 (Wire)
Bank Account 4803452201

- OR -

Send checks to:
Indiana Municipal Power Agency
P.O. Box 772880
Chicago, IL 60677-2880

Indiana Municipal Power Agency - Billing Detail
Tipton Municipal Utilities
Billing Period: June 1 to 30, 2018

Due Date:	Amount Due:
8/15/2018	\$ 984,714.82

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	27,381	7,243	96.67%	06/18/18	1400	65.07%
CP Billing Demand:	26,854	6,610	97.10%	06/18/18	1600	66.35%
kvar at 97% PF:		6,730				
Reactive Demand:		-				
Demand Charges	Rate		Units		Charge	
Base Demand Charge:	\$	23.614 / kW x		26,854	\$	634,130.36
ECA Demand Charge:	\$	(0.939) / kW x		26,854	\$	(25,215.91)
Primary Voltage Charge - Less than 15 kV:	\$	0.988 / kW x		26,854	\$	26,531.75
Total Demand Charges:					\$	635,446.20

Energy						
Energy Information	kWh					
Getrag Banks #1-4:	1,769,078					
Tipton #1:	6,046,095					
Tipton #2:	5,013,674					
Tipton Dist. Gen.:	120					
Total Energy:	12,828,967					
Energy Charges	Rate		Units		Charge	
Base Energy Charge:	\$	0.031875 / kWh x		12,828,967	\$	408,923.32
ECA Energy Charge:	\$	(0.004650) / kWh x		12,828,967	\$	(59,654.70)
Total Energy Charges:					\$	349,268.62

Other Charges and Credits						
Other Charges and Credits						
Total Other Charges and Credits:					\$	-

History			
	Jun 2018	Jun 2017	2018 YTD
Max Demand (kW):	27,381	24,101	27,381
CP Demand (kW):	26,854	23,945	26,854
Energy (kWh):	12,828,967	12,127,436	73,149,454
CP Load Factor:	66.35%	70.34%	
HDD/CDD (Indianapolis):	0/312	3/220	

IMP A Delivery Point Details

Tipton Municipal Utilities

Billing Period: June 1, 2018 to June 30, 2018

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 06/18/18 at 1400 EST				Demand at IMPA's Coincident Peak on 06/18/18 at 1600 EST			
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
TOTAL	12,828,967						27,381	7,243	28,323	96.67%	26,854	6,610	27,656	97.10%
* Tipton Dist. Gen.	120	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	6,046,095	06/18/18 at 1400 EST	13,814	2,659	14,068	98.20%	13,814	2,659	14,068	98.20%	13,114	2,064	13,275	98.78%
* Tipton #2	5,013,674	06/18/18 at 1500 EST	10,502	2,736	10,853	96.77%	10,320	2,650	10,655	96.86%	10,483	2,698	10,825	96.84%
* Getrag Bank #1	22,502	06/25/18 at 0900 EST	65	22	69	94.72%	43	14	45	95.09%	29	-	29	100.00%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	524,424	06/26/18 at 0500 EST	984	636	1,172	83.98%	864	672	1,095	78.94%	948	648	1,148	82.56%
* Getrag Bank #4	1,222,152	06/19/18 at 1000 EST	2,436	1,260	2,743	88.82%	2,340	1,248	2,652	88.24%	2,280	1,200	2,577	88.49%