



TIPTON MUNICIPAL UTILITIES

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Via Electronic Filing – 30 Day Filings – Electric

May 23, 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 July, August and September 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

TIPTON MUNICIPAL ELECTRIC UTILITY

ENERGY COST ADJUSTMENT TRACKING FACTOR
3RD QUARTER, 2018

BILLING AND USAGE PERIOD: JULY THROUGH SEPTEMBER 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	\$	0.033685 Per Kwh
RATE - B		0.035983 Per Kwh
RATE - C		0.037706 Per Kwh
RATE - D		0.029503 Per Kwh

MONTH'S EFFECTIVE:

JULY 2018

AUG 2018

SEPT 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	\$ 0.000132 Per Kwh
RATE - B	\$ 0.000600 Per Kwh
RATE - C	\$ (0.000515) Per Kwh
RATE - D	\$ (0.002552) 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

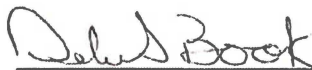
BY:



STATE OF INDIANA)
COUNTY OF TIPTON)

SS:

Personally appeared before me, a Notary Public in and for said county and state, this 24 day of May, 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:

March 13, 2025

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

QUARTERLY ENERGY COST ADJUSTMENT FACTOR

On July 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	\$	0.000132 / Kwh
RATE - B	\$	0.000600 / Kwh
RATE - C	\$	(0.000515) / Kwh
RATE - D	\$	(0.002552) / 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 \$0.13 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 \$0.09. 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. 3RD QTR 2018

Page 1 of 3

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
JULY 2018 AUG 2018 SEPT 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)	*	26,553	12,788,296	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 283,453.28	\$ 151,950.53	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:
JULY 2018 AUG 2018 SEPT 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	
		(A)	(B)			(E)	(F)	(G)	
1	RATE - A	34.096	33.919	9,053.5	4,337,662	\$ 96,646.23	\$ 51,540.10	\$ 148,186.33	1
2	RATE - B	23.147	21.193	6,146.2	2,710,224	65,610.93	32,202.88	97,813.81	2
3	RATE - C	14.037	11.801	3,727.2	1,509,147	39,788.34	17,931.68	57,720.02	3
4	RATE - D	27.776	32.013	7,375.4	4,093,917	78,731.98	48,643.92	127,375.90	4
5	FLAT RATES	0.944	1.074	250.7	137,346	2,675.80	1,631.95	4,307.75	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	26,553.0	12,788,296	\$ 283,453.28	\$ 151,950.53	\$ 435,403.81	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:
JULY 2018 AUG 2018 SEPT 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	\$ (692.75)	\$ (1,379.08)	\$ 95,953.48	\$ 50,161.02	\$ 146,114.49	\$ 0.022121	\$0.011564	\$0.033685	1
2	RATE - B	469.93	(761.64)	66,080.86	31,441.24	97,522.09	0.024382	0.011601	0.035983	2
3	RATE - C	(336.37)	(479.22)	39,451.97	17,452.46	56,904.43	0.026142	0.011564	0.037706	3
4	RATE - D	(4,620.79)	(1,970.82)	74,111.19	46,673.10	120,784.29	0.018103	0.011401	0.029503	4
5	FLAT RATES	18.61	(37.73)	2,694.41	1,594.22	4,288.63	0.019618	0.011607	0.031225	5
6										6
7										7
8										8
9										9
10	TOTAL	\$ (5,161.38)	\$ (4,628.49)	\$ 278,291.90	\$ 147,322.04	\$ 425,613.94	\$ 0.021761	\$0.011520	\$0.033282	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:
JULY 2018 AUG 2018 SEPT 2018

LINE NO.	DESCRIPTION	JULY 2018 (A)	AUG 2018 (B)	SEPT 2018 (C)	TOTAL (D)	ESTIMATED 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND	26,942	25,916	26,801	79,659	26,553	1
2	KWH ENERGY	12,949,014	13,267,634	12,148,240	38,364,888	12,788,296	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ (0.939)	\$ (0.939)	\$ (0.939)		\$ (0.939)	3
4	CHARGE (a)	\$ (25,298.54)	\$ (24,335.12)	\$ (25,166.14)	\$ (74,799.80)	\$ (24,933.27)	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ (0.004650)	\$ (0.004650)	\$ (0.004650)		\$ (0.004650)	5
6	CHARGE (b)	\$ (60,212.92)	\$ (61,694.50)	\$ (56,489.32)	\$ (178,396.73)	\$ (59,465.58)	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:
JAN 2018 FEB 2018 MAR 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)	*	22,282	12,603,873	6
	LINE 5 * LINE 6		\$ 226,853.04	\$ 142,827.09	
	OTHER CHARGES		-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 226,853.04	\$ 142,827.09	7

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

	JAN 2018	FEB 2018	MAR 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:
JAN 2018 FEB 2018 MAR 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)	(C)	(D)	DEMAND (d)	ENERGY (e)	TOTAL (G)	
		(A)	(B)			(E)	(F)	(G)	
1	RATE - A	33.565	32.879	7,479.0	4,143,994	\$ 76,144.18	\$ 46,959.74	\$ 123,103.92	1
2	RATE - B	16.152	14.562	3,599.0	1,835,320	36,641.33	20,797.84	57,439.17	2
3	RATE - C	14.640	12.119	3,262.1	1,527,476	33,211.40	17,309.36	50,520.76	3
4	RATE - D	35.065	39.794	7,813.2	5,015,549	79,546.13	56,836.20	136,382.33	4
5	FLAT RATES	0.577	0.647	128.7	81,535	1,310.00	923.96	2,233.96	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	22,282.0	12,603,873	\$ 226,853.04	\$ 142,827.09	\$ 369,680.13	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

JAN 2018 FEB 2018 MAR 2018

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
JAN 20 FEB 2018 MAR 2018

LINE NO.	RATE SCHEDULE	ACTUAL AVERAGE KWH SALES (a)	DEMAND ADJUSTMENT FACTOR PER KWH (b)	ENERGY ADJUSTMENT FACTOR PER KWH (c)	INCREMENTAL KW DEMAND COST BILLED BY MEMBER (d)	INCREMENTAL KWH ENERGY COST BILLED BY MEMBER (e)	LESS PREV. VARIANCE - SYSTEM SALES FROM FILING NUMBER JAN 2018		LINE NO.
		(A)	(B)	(C)	(D)	(E)	DEMAND (f)	ENERGY (g)	
1	RATE - A	4,116,791	0.020042	0.011690	\$ 81,353.60	\$ 47,451.53	\$ 4,548.74	\$ (823.44)	1
2	RATE - B	1,823,272	0.021587	0.011699	38,807.95	21,031.83	2,614.79	(492.39)	2
3	RATE - C	1,517,449	0.022929	0.011590	34,306.48	17,341.01	774.28	(425.38)	3
4	RATE - D	4,982,625	0.019675	0.012141	96,660.68	59,647.13	12,707.70	931.36	4
5	FLAT RATES	81,000	0.017132	0.011685	1,368.26	933.23	76.01	(26.71)	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>12,521,137</u>			<u>\$ 252,496.97</u>	<u>\$ 146,404.73</u>	<u>\$ 20,721.52</u>	<u>\$ (836.56)</u>	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

JAN 2018

JAN 2018

0.986

0.986

JAN 2018

JAN 2018

FEB 2018

FEB 2018

FEB 2018

FEB 2018

MAR 2018

MAR 2018

MAR 2018

MAR 2018

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
JAN 2018 FEB 2018 MAR 2018

LINE NO.	RATE SCHEDULE	NET INCREMENTAL COST BILLED BY MEMBER			VARIANCE			LINE NO.
		DEMAND (a)	ENERGY (b)	TOTAL	DEMAND (c)	ENERGY (c)	TOTAL (c)	
		(A)	(B)	(C)	(D)	(E)	(F)	
1	RATE - A	\$ 76,804.86	\$ 48,274.97	\$ 125,079.83	\$ (660.68)	\$ (1,315.23)	\$ (1,975.91)	1
2	RATE - B	36,193.16	21,524.22	57,717.38	448.17	(726.38)	(278.21)	2
3	RATE - C	33,532.20	17,766.39	51,298.59	(320.80)	(457.03)	(777.83)	3
4	RATE - D	83,952.98	58,715.77	142,668.75	(4,406.85)	(1,879.57)	(6,286.42)	4
5	FLAT RATES	1,292.25	959.94	2,252.19	17.75	(35.98)	(18.23)	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 231,775.45</u>	<u>\$ 147,241.29</u>	<u>\$ 379,016.74</u>	<u>\$ (4,922.41)</u>	<u>\$ (4,414.19)</u>	<u>\$ (9,336.60)</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

LINE NO.	DESCRIPTION	JAN 2018	FEB 2018	MAR 2018	TOTAL	ACTUAL 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)	(D)	(E)	
	PURCHASED POWER FROM IMPA						
1	KW DEMAND (a)	24,461	21,855	20,530	66,846	22,282	1
2	KWH ENERGY (a)	14,096,793	11,655,236	12,059,591	37,811,620	12,603,873	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)	\$ (22,968.88)	\$ (20,521.85)	\$ (19,277.67)	\$ (62,768.39)	\$ (20,922.80)	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH (a)	\$ (0.004650)	\$ (0.004650)	\$ (0.004650)		\$ (0.004650)	5
6	CHARGE (c)	\$ (65,550.09)	\$ (54,196.85)	\$ (56,077.10)	\$ (175,824.03)	\$ (58,608.01)	6

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

JAN 2018 FEB 2018 MAR 2018

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF
JAN 2018 FEB 2018 MAR 2018

LINE NO.	RATE SCHEDULE	JAN 2018 (A)	FEB 2018 (B)	MAR 2018 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	3,834,511	4,994,259	3,521,603	12,350,373	4,116,791	1
2	RATE - B	1,795,029	2,001,695	1,673,092	5,469,816	1,823,272	2
3	RATE - C	1,488,289	1,626,250	1,437,809	4,552,348	1,517,449	3
4	RATE - D	4,783,561	5,321,646	4,842,668	14,947,875	4,982,625	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>11,982,390</u>	<u>14,024,850</u>	<u>11,556,172</u>	<u>37,563,412</u>	<u>12,521,137</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

	JAN 2018	FEB 2018	MAR 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	4,116,791	32.879%	33.919%	-3.067%	34.096%	33.050%	33.565%
RATE - B	1,823,272	14.562%	21.193%	-31.291%	23.147%	15.904%	16.152%
RATE - C	1,517,449	12.119%	11.801%	2.696%	14.037%	14.415%	14.640%
RATE - D	4,982,625	39.794%	32.013%	24.305%	27.776%	34.527%	35.065%
FLAT RATES	81,000	0.647%	1.074%	-39.767%	0.944%	0.569%	0.577%
							0.000%
	12,521,137	100.000%	100.000%		100.000%	98.465%	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 JULY, AUGUST and SEPTEMBER
2018 - 3RD QUARTER**

	JUL	AUG	SEP	JUL	AUG	SEP
	<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 TIPTON	<u>kW</u>			<u>kWh</u>		
	26,942	25,916	26,801	12,949,014	13,267,634	12,148,240

4/9/2018



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:	Amount Due:
3/16/2018	\$ 962,605.83

Billing Period: January 1 to 31, 2018

Invoice No: INV0008215
Invoice Date: 2/14/2018

Summary of Charges	
Demand Charges:	\$ 578,820.64
Energy Charges:	\$ 383,785.19
Subtotal - Purchased Power Charges*:	\$ 962,605.83
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 962,605.83

*Average Purchased Power Cost: 6.83 cents per kWh

Due Date:	Amount Due:
3/16/2018	\$ 962,605.83

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 03/16/18
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

Due Date: 3/16/2018	Amount Due: \$ 962,605.83
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Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	25,241	3,372	99.12%	01/05/18	900	75.07%
CP Billing Demand:	24,461	2,491	99.49%	01/02/18	900	77.46%
kvar at 97% PF:		6,131				
Reactive Demand:		-				

Demand Charges	Rate	Units	Charge
Base Demand Charge:	\$ 23.614 / kW x	24,461	\$ 577,622.05
ECA Demand Charge:	\$ (0.939) / kW x	24,461	\$ (22,968.88)
Primary Voltage Charge - Less than 15 kV:	\$ 0.988 / kW x	24,461	\$ 24,167.47
Total Demand Charges:			\$ 578,820.64

Energy Information	kWh
Getrag Banks #1-4:	1,536,433
Tipton #1:	6,540,928
Tipton #2:	6,018,752
Tipton Dist. Gen.:	680
Total Energy:	14,096,793

Energy Charges	Rate	Units	Charge
Base Energy Charge:	\$ 0.031875 / kWh x	14,096,793	\$ 449,335.28
ECA Energy Charge:	\$ (0.004650) / kWh x	14,096,793	\$ (65,550.09)
Total Energy Charges:			\$ 383,785.19

Total Other Charges and Credits:	\$ -
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	Jan 2018	Jan 2017	2018 YTD
Max Demand (kW):	25,241	23,282	25,241
CP Demand (kW):	24,461	23,282	24,461
Energy (kWh):	14,096,793	13,089,378	14,096,793
CP Load Factor:	77.46%	75.57%	
HDD/CDD (Indianapolis):	1238/0	925/0	

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

IMP A Delivery Point Details

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 01/05/18 at 0900 EST				Demand at IMPA's Coincident Peak on 01/02/18 at 0900 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	14,096,793						25,241	3,372	25,465	99.12%	24,461	2,491	24,588	99.49%
* Tipton Dist. Gen.	680	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	6,540,928	01/05/18 at 0900 EST	12,653	1,123	12,703	99.61%	12,653	1,123	12,703	99.61%	11,597	336	11,602	99.96%
* Tipton #2	6,018,752	01/05/18 at 0900 EST	10,781	1,354	10,866	99.22%	10,781	1,354	10,866	99.22%	10,272	768	10,301	99.72%
* Getrag Bank #1	43,765	01/04/18 at 0800 EST	94	22	97	97.37%	79	7	79	99.61%	72	7	72	99.53%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	449,484	01/09/18 at 1700 EST	888	612	1,078	82.34%	528	324	619	85.23%	696	504	859	80.99%
* Getrag Bank #4	1,043,184	01/11/18 at 1000 EST	1,872	960	2,104	88.98%	1,200	564	1,326	90.50%	1,824	876	2,023	90.14%



IMPA
INDIANA MUNICIPAL POWER AGENCY

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

Due Date:	Amount Due:
4/13/2018	\$ 834,468.66

Billing Period: February 1 to 28, 2018

Invoice No: INV0008309
Invoice Date: 3/14/2018

Summary of Charges

Demand Charges:	\$ 517,154.86
Energy Charges:	\$ 317,313.80
Subtotal - Purchased Power Charges*:	\$ 834,468.66
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 834,468.66

*Average Purchased Power Cost: 7.16 cents per kWh

Due Date:	Amount Due:
4/13/2018	\$ 834,468.66

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 04/13/18
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: February 1 to 28, 2018

Due Date:	Amount Due:
4/13/2018	\$ 834,468.66

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	22,920	3,984	98.52%	02/08/18	1000	75.67%
CP Billing Demand:	21,855	3,307	98.87%	02/02/18	800	79.36%
kvar at 97% PF:		5,477				
Reactive Demand:		-				
Demand Charges	Rate		Units		Charge	
Base Demand Charge:	\$	23.614 / kW	x	21,855	\$	516,083.97
ECA Demand Charge:	\$	(0.939) / kW	x	21,855	\$	(20,521.85)
Primary Voltage Charge - Less than 15 kV:	\$	0.988 / kW	x	21,855	\$	21,592.74
Total Demand Charges:					\$	517,154.86

Energy				
Energy Information		kWh		
Getrag Banks #1-4:		1,362,638		
Tipton #1:		5,304,378		
Tipton #2:		4,987,180		
Tipton Dist. Gen.:		1,040		
Total Energy:		11,655,236		
Energy Charges		Rate	Units	Charge
Base Energy Charge:		\$ 0.031875 / kWh x	11,655,236	\$ 371,510.65
ECA Energy Charge:		\$ (0.004650) / kWh x	11,655,236	\$ (54,196.85)
Total Energy Charges:				\$ 317,313.80

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

History			
	Feb 2018	Feb 2017	2018 YTD
Max Demand (kW):	22,920	21,727	25,241
CP Demand (kW):	21,855	19,968	24,461
Energy (kWh):	11,655,236	11,022,409	25,752,029
CP Load Factor:	79.36%	82.14%	
HDD/CDD (Indianapolis):	762/1	599/0	

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

IMP A Delivery Point Details

Tipton Municipal Utilities

Billing Period: February 1, 2018 to February 28, 2018

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 02/08/18 at 1000 EST				Demand at IMPA's Coincident Peak on 02/02/18 at 0800 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	11,655,236						22,920	3,984	23,264	98.52%	21,855	3,307	22,104	98.87%
* Tipton Dist. Gen.	1,040	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,304,378	02/05/18 at 1000 EST	11,232	1,056	11,282	99.56%	11,078	1,018	11,125	99.58%	10,877	893	10,914	99.66%
* Tipton #2	4,987,180	02/08/18 at 1100 EST	9,398	1,728	9,556	98.35%	9,341	1,603	9,478	98.56%	9,072	1,459	9,189	98.73%
* Getrag Bank #1	39,602	02/05/18 at 1100 EST	94	22	97	97.37%	65	7	65	99.43%	58	7	58	99.28%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	412,008	02/07/18 at 1700 EST	876	540	1,029	85.13%	744	540	919	80.93%	624	384	733	85.17%
* Getrag Bank #4	911,028	02/05/18 at 1300 EST	1,764	864	1,964	89.81%	1,692	816	1,878	90.07%	1,224	564	1,348	90.82%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:	Amount Due:
5/16/2018	\$ 814,123.75

Billing Period: March 1 to 31, 2018

Invoice No: INV0008390
Invoice Date: 4/16/2018

Summary of Charges

Demand Charges:	\$ 485,801.39
Energy Charges:	\$ 328,322.36
Subtotal - Purchased Power Charges*:	\$ 814,123.75
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 814,123.75

*Average Purchased Power Cost: 6.75 cents per kWh

Due Date:	Amount Due:
5/16/2018	\$ 814,123.75

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 05/16/18

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: March 1 to 31, 2018

Due Date: 5/16/2018	Amount Due: \$ 814,123.75
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Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	20,870	3,972	98.24%	03/12/18	1000	77.67%
CP Billing Demand:	20,530	3,396	98.66%	03/14/18	700	78.95%
kvar at 97% PF:		5,145				
Reactive Demand:		-				
Demand Charges	Rate		Units		Charge	
Base Demand Charge:	\$	23.614 / kW x		20,530	\$	484,795.42
ECA Demand Charge:	\$	(0.939) / kW x		20,530	\$	(19,277.67)
Primary Voltage Charge - Less than 15 kV:	\$	0.988 / kW x		20,530	\$	20,283.64
Total Demand Charges:					\$	485,801.39

Energy			
Energy Information	kWh		
Getrag Banks #1-4:	1,455,350		
Tipton #1:	5,516,439		
Tipton #2:	5,086,882		
Tipton Dist. Gen.:	920		
Total Energy:	12,059,591		
Energy Charges	Rate		Charge
Base Energy Charge:	\$	0.031875 / kWh x	\$ 384,399.46
ECA Energy Charge:	\$	(0.004650) / kWh x	\$ (56,077.10)
Total Energy Charges:			\$ 328,322.36

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

History			
	Mar 2018	Mar 2017	2018 YTD
Max Demand (kW):	20,870	20,952	25,241
CP Demand (kW):	20,530	20,448	24,461
Energy (kWh):	12,059,591	11,927,029	37,811,620
CP Load Factor:	78.95%	78.40%	
HDD/CDD (Indianapolis):	811/0	652/2	

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

IMP A Delivery Point Details

Tipton Municipal Utilities

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

		Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 03/12/18 at 1000 EST				Demand at IMPA's Coincident Peak on 03/14/18 at 0700 EST			
Delivery Point	Energy kWh	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	12,059,591						20,870	3,972	21,245	98.24%	20,530	3,396	20,809	98.66%
* Tipton Dist. Gen.	920	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,516,439	03/14/18 at 0800 EST	10,061	1,171	10,129	99.33%	9,974	1,114	10,036	99.38%	10,013	960	10,059	99.54%
* Tipton #2	5,086,882	03/08/18 at 1400 EST	8,774	1,603	8,919	98.37%	8,410	1,411	8,528	98.62%	8,016	1,085	8,089	99.10%
* Getrag Bank #1	36,110	03/07/18 at 0700 EST	86	14	87	98.70%	50	7	50	99.03%	65	7	65	99.43%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	433,896	03/06/18 at 1700 EST	864	564	1,032	83.74%	696	564	896	77.69%	684	528	864	79.16%
* Getrag Bank #4	985,344	03/08/18 at 2200 EST	1,812	948	2,045	88.61%	1,740	876	1,948	89.32%	1,752	816	1,933	90.65%