



TIPTON MUNICIPAL UTILITIES

Received: November 17, 2017
IURC 30-Day Filing No.: 50095
Indiana Utility Regulatory Commission

P.O. Box 288
Tipton, IN 46072-0288
Office: 765-675-7629
Fax: 765-675-9048

Via Electronic Filing – 30 Day Filings – Electric

November 17, 2017

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 January, February and March 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
4TH QUARTER, 2017

BILLING AND USAGE PERIOD: JANUARY THROUGH MARCH 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	\$	0.031732 Per Kwh
RATE - B		0.033286 Per Kwh
RATE - C		0.034520 Per Kwh
RATE - D		0.031816 Per Kwh

MONTH'S EFFECTIVE:

JAN 2018

FEB 2018

MARCH 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	\$ (0.002716) Per Kwh
RATE - B	\$ (0.003007) Per Kwh
RATE - C	\$ (0.003678) Per Kwh
RATE - D	\$ 0.001465 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 17 day of November, 2017 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 January 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	\$	(0.002716) / Kwh
RATE - B	\$	(0.003007) / Kwh
RATE - C	\$	(0.003678) / Kwh
RATE - D	\$	0.001465 / 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 (\$2.72) 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 (\$1.90.) This change stated as a percentage of the monthly bill will vary from individual to individual depending upon the actual amount of energy consumed.

CITY OF TIPTON, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
JAN 20 FEB 2018 MARCH 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)	
		(A)	(B)			(E)	(F)	(G)	
1	RATE - A	34.096	33.919	7,455.8	4,213,516	\$ 79,672.38	\$ 50,119.77	\$ 129,792.15	1
2	RATE - B	23.147	21.193	5,061.6	2,632,655	54,087.77	31,315.43	85,403.20	2
3	RATE - C	14.037	11.801	3,069.5	1,465,954	32,800.36	17,437.52	50,237.88	3
4	RATE - D	27.776	32.013	6,073.8	3,976,747	64,904.39	47,303.40	112,207.79	4
5	FLAT RATES	0.944	1.074	206.4	133,415	2,205.85	1,586.98	3,792.83	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>100.000</u>	<u>100.000</u>	<u>21,867.0</u>	<u>12,422,287</u>	<u>\$ 233,670.76</u>	<u>\$ 147,763.10</u>	<u>\$ 381,433.86</u>	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:
JAN 2018 FEB 2018 MARCH 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	ENERGY	DEMAND (b)	ENERGY (c)	TOTAL	DEMAND	ENERGY	TOTAL	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	
1	RATE - A	\$ 4,774.58	\$ (864.32)	\$ 84,446.96	\$ 49,255.45	\$ 133,702.41	\$ 0.020042	\$0.011690	\$0.031732	1
2	RATE - B	2,744.61	(516.84)	56,832.38	30,798.59	87,630.97	0.021587	0.011699	0.033286	2
3	RATE - C	812.72	(446.50)	33,613.08	16,991.02	50,604.10	0.022929	0.011590	0.034520	3
4	RATE - D	13,338.62	977.60	78,243.01	48,281.00	126,524.01	0.019675	0.012141	0.031816	4
5	FLAT RATES	79.78	(28.04)	2,285.63	1,558.94	3,844.58	0.017132	0.011685	0.028817	5
6										6
7										7
8										8
9										9
10	TOTAL	<u>\$ 21,750.31</u>	<u>\$ (878.09)</u>	<u>\$ 255,421.06</u>	<u>\$ 146,885.01</u>	<u>\$ 402,306.07</u>	<u>\$ 0.020562</u>	<u>\$0.011824</u>	<u>\$0.032386</u>	10

- (a) Exhibit IV, Page 4 of 7, Columns D and E / (1 - loss factor)(.986) = 95.27%
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:

LINE NO.	DESCRIPTION	JAN 2018	FEB 2018	MARCH 2018	TOTAL	ESTIMATED 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)	(D)	(E)	
PURCHASED POWER FROM IMPA							
1	KW DEMAND	23,929	21,015	20,656	65,600	21,867	1
2	KWH ENERGY	13,589,110	11,709,295	11,968,455	37,266,860	12,422,287	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ (0.939)	\$ (0.939)	\$ (0.939)		\$ (0.939)	3
4	CHARGE (a)	\$ (22,469.33)	\$ (19,733.09)	\$ (19,395.98)	\$ (61,598.40)	\$ (20,532.80)	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ (0.004650)	\$ (0.004650)	\$ (0.004650)		\$ (0.004650)	5
6	CHARGE (b)	\$ (63,189.36)	\$ (54,448.22)	\$ (55,653.32)	\$ (173,290.90)	\$ (57,763.63)	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:
 JULY 2017 AUG 2017 SEPT 2017

LINE NO.	DESCRIPTION		DEMAND RELATED	ENERGY RELATED	LINE NO.
			(A)	(B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)		\$ 10.873	\$ 0.014672	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+			2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	0.416	(0.001775)	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO IMPA MEMBERSHIP (d)	+	0.000	0.000000	4
5	TOTAL RATE ADJUSTMENT (e)		11.289	\$ 0.012897	5
6	ACTUAL AVERAGE BILLING UNITS (f)	*	25,440	12,263,425	6
	LINE 5 * LINE 6		\$ 287,192.16	\$ 158,161.39	
	OTHER CHARGES		-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 287,192.16	\$ 158,161.39	7

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

	JULY 2017	AUG 2017	SEPT 2017
Base Rate Effective 01/01/2017		minus	Base Rate Effective 01/01/2004
Demand	\$24.355		\$13.482
Energy	\$0.030565		\$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:
 JULY 2017 AUG 2017 SEPT 2017

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	29.337	28.244	7,463.2	3,463,680	\$ 84,252.54	\$ 44,671.08	\$ 128,923.62	1
2	RATE - B	17.887	15.850	4,550.5	1,943,707	51,370.99	25,067.99	76,438.98	2
3	RATE - C	9.780	7.957	2,488.0	975,805	28,086.87	12,584.95	40,671.82	3
4	RATE - D	42.380	47.271	10,781.5	5,797,018	121,711.83	74,764.14	196,475.97	4
5	FLAT RATES	0.616	0.679	156.8	83,215	1,769.92	1,073.22	2,843.14	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>100.000</u>	<u>100.000</u>	<u>25,440.0</u>	<u>12,263,425</u>	<u>\$ 287,192.16</u>	<u>\$ 158,161.39</u>	<u>\$ 445,353.55</u>	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

JULY 2017 AUG 2017 SEPT 2017

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
 JULY 2017 AUG 2017 SEPT 2017

LINE NO.	RATE SCHEDULE	ACTUAL	DEMAND	ENERGY	INCREMENTAL	INCREMENTAL	LESS PREV. VARIANCE - SYSTEM SALES		LINE NO.
		AVERAGE KWH SALES (a)	ADJUSTMENT FACTOR PER KWH (b)	ADJUSTMENT FACTOR PER KWH (c)	KW DEMAND COST BILLED BY MEMBER (d)	KWH ENERGY COST BILLED BY MEMBER (e)	FROM FILING NUMBER DEMAND (f)	JULY 2017 ENERGY (g)	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	
1	RATE - A	3,371,481	0.021820	0.013044	\$ 72,535.80	\$ 43,361.91	\$ (7,168.00)	\$ (2,132.61)	1
2	RATE - B	1,891,968	0.024112	0.013170	44,980.46	24,568.38	(3,775.74)	(992.00)	2
3	RATE - C	949,830	0.025502	0.012951	23,883.45	12,129.03	(3,429.14)	(881.30)	3
4	RATE - D	5,642,708	0.017741	0.012539	98,705.78	69,763.36	(10,298.35)	(4,069.42)	4
5	FLAT RATES	81,000	0.019576	0.013207	1,563.46	1,054.79	(130.45)	(45.14)	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>11,936,987</u>			<u>\$ 241,668.95</u>	<u>\$ 150,877.47</u>	<u>\$ (24,801.68)</u>	<u>\$ (8,120.47)</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

JULY 2017

AUG 2017

SEPT 2017

JULY 2017

AUG 2017

SEPT 2017

0.986

0.986

JULY 2017

AUG 2017

SEPT 2017

JULY 2017

AUG 2017

SEPT 2017

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY
RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
 JULY 2017 AUG 2017 SEPT 2017

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	\$ 79,703.80	\$ 45,494.52	\$ 125,198.32	\$ 4,548.74	\$ (823.44)	\$ 3,725.30	1
2	RATE - B	48,756.20	25,560.38	74,316.58	2,614.79	(492.39)	2,122.40	2
3	RATE - C	27,312.59	13,010.33	40,322.92	774.28	(425.38)	348.90	3
4	RATE - D	109,004.13	73,832.78	182,836.91	12,707.70	931.36	13,639.06	4
5	FLAT RATES	1,693.91	1,099.93	2,793.84	76.01	(26.71)	49.30	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 266,470.63</u>	<u>\$ 158,997.94</u>	<u>\$ 425,468.57</u>	<u>\$ 20,721.52</u>	<u>\$ (836.56)</u>	<u>\$ 19,884.96</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
 JULY 2017 AUG 2017 SEPT 2017

LINE NO.	DESCRIPTION	JULY 2017 (A)	AUG 2017 (B)	SEPT 2017 (C)	TOTAL (D)	ACTUAL 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND (a)	24,649	25,352	26,319	76,320	25,440	1
2	KWH ENERGY (a)	12,744,335	12,552,236	11,493,704	36,790,275	12,263,425	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW (a)	\$ 0.416	\$ 0.416	\$ 0.416		\$ 0.416	3
4	CHARGE (b)	\$ 10,253.98	\$ 10,546.43	\$ 10,948.70	\$ 31,749.12	\$ 10,583.04	4
ENERGY RELATED							
5	ECA FACTOR PER KWH (a)	\$ (0.001775)	\$ (0.001775)	\$ (0.001775)		\$ (0.001775)	5
6	CHARGE (c)	\$ (22,621.19)	\$ (22,280.22)	\$ (20,401.32)	\$ (65,302.74)	\$ (21,767.58)	6

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

JULY 2017 AUG 2017 SEPT 2017

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF
 JULY 2017 AUG 2017 SEPT 2017

LINE NO.	RATE SCHEDULE	JULY 2017 (A)	AUG 2017 (B)	SEPT 2017 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	3,304,598	3,370,739	3,439,107	10,114,444	3,371,481	1
2	RATE - B	1,865,273	1,843,801	1,966,831	5,675,905	1,891,968	2
3	RATE - C	954,692	897,115	997,682	2,849,489	949,830	3
4	RATE - D	5,693,268	5,583,026	5,651,831	16,928,125	5,642,708	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>11,898,831</u>	<u>11,775,681</u>	<u>12,136,451</u>	<u>35,810,963</u>	<u>11,936,987</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

Rate Schedule	JULY 2017		AUG 2017		SEPT 2017		kW Demand Allocator for 2009 (G)
	Average Sales (A)	Percent of Total (B)	kWh Energy Factors (C)	Variance (D)	kW Demand Factors (E)	Adjusted Factors (F)	
	RATE - A	3,371,481	28.244%	33.919%	-16.731%	34.096%	
RATE - B	1,891,968	15.850%	21.193%	-25.213%	23.147%	17.311%	17.887%
RATE - C	949,830	7.957%	11.801%	-32.573%	14.037%	9.465%	9.780%
RATE - D	5,642,708	47.271%	32.013%	47.661%	27.776%	41.014%	42.380%
FLAT RATES	81,000	0.679%	1.074%	-36.819%	0.944%	0.596%	0.616%
							0.000%
	11,936,987	100.000%	100.000%		100.000%	96.778%	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 JANUARY, FEBRUARY and MARCH
 2018 - 1ST QUARTER**

	JAN	FEB	MAR	JAN	FEB	MAR
	<u>\$/kW-month</u>			<u>\$/kWh</u>		
IMPA's Energy Cost Adjustment	(0.939)	(0.939)	(0.939)	(0.004650)	(0.004650)	(0.004650)
	<u>kW</u>			<u>kWh</u>		
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for TIPTON	23,929	21,015	20,656	13,589,110	11,709,295	11,968,455



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date: 9/13/2017	Amount Due: \$ 977,489.79
--------------------------------------	--

Billing Period: July 1 to 31, 2017

Invoice No: INV0007705
Invoice Date: 8/14/2017

Summary of Charges	
Demand Charges:	\$ 610,580.38
Energy Charges:	\$ 366,909.41
Subtotal - Purchased Power Charges*:	\$ 977,489.79
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 977,489.79

*Average Purchased Power Cost: 7.67 cents per kWh

Due Date: 9/13/2017	Amount Due: \$ 977,489.79
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To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 09/13/17
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

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	25,193	7,075	96.28%	07/19/17	1400	67.99%
CP Billing Demand:	24,649	6,072	97.10%	07/19/17	1600	69.49%
kvar at 97% PF:		6,178				
Reactive Demand:		-				

Demand Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.965 / kW x	24,649	\$ 566,064.29
ECA Demand Charge:	\$ 0.416 / kW x	24,649	\$ 10,253.98
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.390 / kW x	24,649	\$ 34,262.11
Total Demand Charges:			\$ 610,580.38

Energy	
Energy Information	kWh
Getrag Banks #1-4:	1,776,171
Tipton #1:	6,158,015
Tipton #2:	4,809,909
Tipton Dist. Gen.:	240
Total Energy:	12,744,335

Energy Charges	Rate	Units	Charge
Base Energy Charge:	\$ 0.030565 / kWh x	12,744,335	\$ 389,530.60
ECA Energy Charge:	\$ (0.001775) / kWh x	12,744,335	\$ (22,621.19)
Total Energy Charges:			\$ 366,909.41

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

History			
	Jul 2017	Jul 2016	2017 YTD
Max Demand (kW):	25,193	27,074	25,193
CP Demand (kW):	24,649	27,074	24,649
Energy (kWh):	12,744,335	13,146,927	82,276,784
CP Load Factor:	69.49%	65.27%	
HDD/CDD (Indianapolis):	0/355	2/368	

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

IMPA Delivery Point Details

Tipton Municipal Utilities

Billing Period: July 1, 2017 to July 31, 2017

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>					<u>Demand at TIPTON's Maximum Peak on 07/19/17 at 1400 EST</u>				<u>Demand at IMPA's Coincident Peak on 07/19/17 at 1600 EST</u>			
		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	12,744,335						25,193	7,075	26,168	96.28%	24,649	6,072	25,386	97.10%
* Tipton Dist. Gen.	240	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	6,158,015	07/19/17 at 1600 EST	12,106	1,853	12,247	98.85%	12,000	2,218	12,203	98.33%	12,106	1,853	12,247	98.85%
* Tipton #2	4,809,909	07/19/17 at 1400 EST	10,013	2,899	10,424	96.06%	10,013	2,899	10,424	96.06%	9,437	2,419	9,742	96.87%
* Getrag Bank #1	20,991	07/03/17 at 0300 EST	58	14	60	97.21%	36	14	39	93.20%	22	-	22	100.00%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	491,292	07/05/17 at 1600 EST	972	648	1,168	83.21%	828	660	1,059	78.20%	912	636	1,112	82.02%
* Getrag Bank #4	1,263,888	07/05/17 at 2100 EST	2,364	1,308	2,702	87.50%	2,316	1,284	2,648	87.46%	2,172	1,164	2,464	88.14%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date: 10/16/2017	Amount Due: \$ 989,373.26
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Billing Period: August 1 to 31, 2017

Invoice No: INV0007790
Invoice Date: 9/14/2017

Summary of Charges	
Demand Charges:	\$ 627,994.39
Energy Charges:	\$ 361,378.87
Subtotal - Purchased Power Charges*:	\$ 989,373.26
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 989,373.26

*Average Purchased Power Cost: 7.88 cents per kWh

Due Date: 10/16/2017	Amount Due: \$ 989,373.26
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To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 10/16/17
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: August 1 to 31, 2017

Due Date:	Amount Due:
10/16/2017	\$ 989,373.26

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	25,901	6,583	96.92%	08/16/17	1500	65.14%
CP Billing Demand:	25,352	6,170	97.16%	08/16/17	1600	66.55%
kvar at 97% PF:		6,354				
Reactive Demand:		-				

Demand Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.965 / kW x	25,352	\$ 582,208.68
ECA Demand Charge:	\$ 0.416 / kW x	25,352	\$ 10,546.43
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.390 / kW x	25,352	\$ 35,239.28
Total Demand Charges:			\$ 627,994.39

Energy	
Energy Information	kWh
Getrag Banks #1-4:	2,001,502
Tipton #1:	5,822,341
Tipton #2:	4,728,353
Tipton Dist. Gen.:	40
Total Energy:	12,552,236

Energy Charges	Rate	Units	Charge
Base Energy Charge:	\$ 0.030565 / kWh x	12,552,236	\$ 383,659.09
ECA Energy Charge:	\$ (0.001775) / kWh x	12,552,236	\$ (22,280.22)
Total Energy Charges:			\$ 361,378.87

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

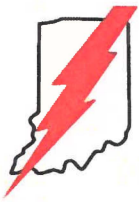
History			
	Aug 2017	Aug 2016	2017 YTD
Max Demand (kW):	25,901	27,324	25,901
CP Demand (kW):	25,352	26,996	25,352
Energy (kWh):	12,552,236	14,180,183	94,829,020
CP Load Factor:	66.55%	70.60%	
HDD/CDD (Indianapolis):	0/257	0/416	

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

IMPA Delivery Point Details

Tipton Municipal Utilities
Billing Period: August 1, 2017 to August 31, 2017

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>					<u>Demand at TIPTON's Maximum Peak</u> <u>on 08/16/17 at 1500 EST</u>				<u>Demand at IMPA's Coincident Peak</u> <u>on 08/16/17 at 1600 EST</u>			
		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	12,552,236						25,901	6,583	26,724	96.92%	25,352	6,170	26,092	97.16%
* Tipton Dist. Gen.	40	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,822,341	08/16/17 at 1500 EST	12,355	1,603	12,459	99.17%	12,355	1,603	12,459	99.17%	12,154	1,411	12,236	99.33%
* Tipton #2	4,728,353	08/16/17 at 1500 EST	10,349	3,101	10,804	95.79%	10,349	3,101	10,804	95.79%	10,080	2,995	10,516	95.86%
* Getrag Bank #1	16,870	08/16/17 at 1200 EST	50	14	52	96.30%	29	7	30	97.21%	22	-	22	100.00%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	551,808	08/09/17 at 1600 EST	960	636	1,152	83.36%	828	660	1,059	78.20%	900	648	1,109	81.15%
* Getrag Bank #4	1,432,824	08/17/17 at 1000 EST	2,556	1,368	2,899	88.17%	2,340	1,212	2,635	88.80%	2,196	1,116	2,463	89.15%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date: 11/15/2017	Amount Due: \$ 982,942.89
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Billing Period: September 1 to 30, 2017

Invoice No: INV0007873
Invoice Date: 10/16/2017

Summary of Charges	
Demand Charges:	\$ 652,039.15
Energy Charges:	\$ 330,903.74
Subtotal - Purchased Power Charges*:	\$ 982,942.89
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 982,942.89

*Average Purchased Power Cost: 8.55 cents per kWh

Due Date: 11/15/2017	Amount Due: \$ 982,942.89
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To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 11/15/17
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: September 1 to 30, 2017

Due Date:	Amount Due:
11/15/2017	\$ 982,942.89

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	26,458	6,878	96.78%	09/21/17	1500	60.34%
CP Billing Demand:	26,319	6,672	96.93%	09/21/17	1600	60.65%
kvar at 97% PF:		6,596				
Reactive Demand:		76				

Demand Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.965 / kW x	26,319	\$ 604,415.84
ECA Demand Charge:	\$ 0.416 / kW x	26,319	\$ 10,948.70
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.390 / kW x	26,319	\$ 36,583.41
Reactive Demand Charge:	\$ 1.200 / kvar x	76	\$ 91.20
Total Demand Charges:			\$ 652,039.15

Energy	
Energy Information	kWh
Getrag Banks #1-4:	1,793,708
Tipton #1:	5,117,401
Tipton #2:	4,582,395
Tipton Dist. Gen.:	200
Total Energy:	11,493,704

Energy Charges	Rate	Units	Charge
Base Energy Charge:	\$ 0.030565 / kWh x	11,493,704	\$ 351,305.06
ECA Energy Charge:	\$ (0.001775) / kWh x	11,493,704	\$ (20,401.32)
Total Energy Charges:			\$ 330,903.74

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

History			
	Sep 2017	Sep 2016	2017 YTD
Max Demand (kW):	26,458	27,960	26,458
CP Demand (kW):	26,319	27,960	26,319
Energy (kWh):	11,493,704	12,858,831	106,322,724
CP Load Factor:	60.65%	63.88%	
HDD/CDD (Indianapolis):	29/177	18/213	

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

IMPA Delivery Point Details

Tipton Municipal Utilities

Billing Period: September 1, 2017 to September 30, 2017

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>				<u>Demand at TIPTON's Maximum Peak on 09/21/17 at 1500 EST</u>				<u>Demand at IMPA's Coincident Peak on 09/21/17 at 1600 EST</u>				
		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	11,493,704						26,458	6,878	27,337	96.78%	26,319	6,672	27,152	96.93%
* Tipton Dist. Gen.	200	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,117,401	09/21/17 at 1500 EST	12,432	1,709	12,549	99.07%	12,432	1,709	12,549	99.07%	12,269	1,594	12,372	99.17%
* Tipton #2	4,582,395	09/22/17 at 1400 EST	11,050	3,456	11,578	95.44%	10,848	3,350	11,353	95.55%	10,896	3,302	11,385	95.70%
* Getrag Bank #1	15,980	09/04/17 at 1400 EST	50	14	52	96.30%	22	7	23	95.29%	22	-	22	100.00%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	509,400	09/21/17 at 1600 EST	960	636	1,152	83.36%	876	612	1,069	81.98%	960	636	1,152	83.36%
* Getrag Bank #4	1,268,328	09/26/17 at 0900 EST	2,340	1,152	2,608	89.72%	2,280	1,200	2,577	88.49%	2,172	1,140	2,453	88.54%

**Table 5 - October 27, 2017
2018 RATE STUDY
Proposed Demand and Energy Rates by Member**

LINE NO.	MEMBER	IMPA BASE RATE		PRIMARY VOLTAGE ADJUSTMENT		ENERGY COST ADJ.		TOTAL DEMAND RATE \$/kW-Mo	REACTIVE DEMAND RATE \$/kvar-Mo	TOTAL ENERGY RATE Cents/kWh	Rates for Calculation of Member Revenues		LINE NO.
		DEMAND \$/kW-Mo	ENERGY \$/kWh	DEMAND \$/kW-Mo	ENERGY Cents/kWh	DEMAND \$/kW-Mo	ENERGY \$/kWh				Demand \$/kW-Mo	Energy Cents/kWh	
1	COATESVILLE	23.614	0.031875	0.988		-0.939	-0.004650	23.663	1.200	0.027225	23.663	0.0272	1
2	COLUMBIA CITY	23.614	0.031875	0.000		-0.939	-0.004650	22.675	1.200	0.027225	22.675	0.0272	2
3	GREENFIELD	23.614	0.031875	0.277		-0.939	-0.004650	22.952	1.200	0.027225	22.952	0.0272	3
4	HUNTINGBURG	23.614	0.031875	0.000		-0.939	-0.004650	22.675	1.200	0.027225	22.675	0.0272	4
5	LADOGA	23.614	0.031875	0.988		-0.939	-0.004650	23.663	1.200	0.027225	23.663	0.0272	5
6	LINTON	23.614	0.031875	0.000		-0.939	-0.004650	22.675	1.200	0.027225	22.675	0.0272	6
7	NEW ROSS	23.614	0.031875	0.988		-0.939	-0.004650	23.663	1.200	0.027225	23.663	0.0272	7
8	PENDLETON	23.614	0.031875	0.270		-0.939	-0.004650	22.945	1.200	0.027225	22.945	0.0272	8
9	SPICELAND	23.614	0.031875	0.988		-0.939	-0.004650	23.663	1.200	0.027225	23.663	0.0272	9
10	TIPTON	23.614	0.031875	0.988		-0.939	-0.004650	23.663	1.200	0.027225	23.663	0.0272	10

* The ECA balance is spread over the 12 months of January to December.