



TIPTON MUNICIPAL UTILITIES

Received: August 29, 2017
IURC 30-Day Filing No.: 50076
Indiana Utility Regulatory Commission

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Via Electronic Filing – 30 Day Filings – Electric

August 25, 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 October, November and December 2017. 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	(\$0.000416)	per Kwh
Commercial -	Rate B	Decrease	(\$0.000989)	per Kwh
General & Industrial Power -	Rate C	Decrease	(\$0.000255)	per Kwh
Primary Power -	Rate D	Increase	\$0.000071	per Kwh

Rate Adjustments applicable to the Rate Schedules are as follows:

Residential -	Rate A	\$0.034448	per Kwh
Commercial -	Rate B	\$0.036293	per Kwh
General & Industrial Power -	Rate C	\$0.038198	per Kwh
Primary Power -	Rate D	\$0.030351	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 2017 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, 2017

BILLING AND USAGE PERIOD: OCTOBER THROUGH DECEMBER 2017

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	\$	0.034448 Per Kwh
RATE - B		0.036293 Per Kwh
RATE - C		0.038198 Per Kwh
RATE - D		0.030351 Per Kwh

MONTH'S EFFECTIVE:

OCT 2017

NOV 2017

DEC 2017

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	\$ (0.000416) Per Kwh
RATE - B	\$ (0.000989) Per Kwh
RATE - C	\$ (0.000255) Per Kwh
RATE - D	\$ 0.000071 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:

Rex Boyer Mgr.

STATE OF INDIANA)
COUNTY OF TIPTON)

SS:

Personally appeared before me, a Notary Public in and for said county and state, this 29 day of August, 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

Debra S. Book
Susan Munson, 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 October 1, 2017 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	\$	(0.000416) / Kwh
RATE - B	\$	(0.000989) / Kwh
RATE - C	\$	(0.000255) / Kwh
RATE - D	\$	0.000071 / 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 (\$0.42) 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 (\$0.29.) 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 2017

Page 1 of 3

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
OCT 2017 NOV 2017 DEC 2017

LINE NO.	DESCRIPTION		DEMAND RELATED (A)	ENERGY RELATED (B)	LINE NO.
1	INCREMENTAL CHANGE IN BASE RATE (a)		10.873	0.014672	1
2	ESTIMATED SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+	0.000		2
3	ESTIMATED PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	0.416	(0.001775)	3
4	ESTIMATED TOTAL CHANGE IN PURCHASED POWER RATE		11.289	0.012897	4
5	EST CHANGE IN PURCHASED POWER RATE ADJ FOR LOSSES & UTILITY RECEIPTS TAX (d)		11.849	0.013537	5
6	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (e)	+	0.000	0.000000	6
7	ESTIMATED TOTAL RATE ADJUSTMENT		11.849	0.013537	7
8	ESTIMATED AVERAGE BILLING UNITS (f)	*	21,378	12,479,241	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 253,307.92	\$ 168,931.49	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

= 96.62%
95.27%

CITY OF TIPTON, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
OCT 20 NOV 2017 DEC 2017

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	7,289.0	4,232,834	\$ 86,367.87	\$ 57,299.87	\$ 143,667.74	1
2	RATE - B	23.147	21.193	4,948.4	2,644,726	58,633.18	35,801.65	94,434.83	2
3	RATE - C	14.037	11.801	3,000.8	1,472,675	35,556.83	19,935.61	55,492.44	3
4	RATE - D	27.776	32.013	5,938.0	3,994,979	70,358.81	54,080.04	124,438.85	4
5	FLAT RATES	0.944	1.074	201.8	134,027	2,391.23	1,814.32	4,205.55	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>100.000</u>	<u>100.000</u>	<u>21,378.0</u>	<u>12,479,241</u>	<u>\$ 253,307.92</u>	<u>\$ 168,931.49</u>	<u>\$ 422,239.41</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:
OCT 2017 NOV 2017 DEC 2017

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	\$ 1,367.54	\$ 777.71	\$ 87,735.41	\$ 58,077.58	\$ 145,812.99	\$ 0.020727	\$0.013721	\$0.034448	1
2	RATE - B	1,054.39	494.65	59,687.57	36,296.30	95,983.87	0.022569	0.013724	0.036293	2
3	RATE - C	512.52	248.68	36,069.35	20,184.29	56,253.64	0.024492	0.013706	0.038198	3
4	RATE - D	(3,237.33)	49.04	67,121.48	54,129.08	121,250.56	0.016801	0.013549	0.030351	4
5	FLAT RATES	38.23	24.71	2,429.46	1,839.03	4,268.49	0.018127	0.013721	0.031848	5
6										6
7										7
8										8
9										9
10	TOTAL	<u>\$ (264.64)</u>	<u>\$ 1,594.78</u>	<u>\$ 253,043.28</u>	<u>\$ 170,526.27</u>	<u>\$ 423,569.56</u>	<u>\$ 0.020277</u>	<u>\$0.013665</u>	<u>\$0.033942</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, 2017 (a)	\$ 24.355	\$ 0.030565	1
2	BASE RATE EFFECTIVE January 1, 2004 (b)	-	0.015893	2
3	INCREMENTAL CHANGE IN BASE RATE (c)	<u>\$10.873</u>	<u>\$0.014672</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	OCT 2017	NOV 2017	DEC 2017	TOTAL	ESTIMATED 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)		(D)	
PURCHASED POWER FROM IMPA							
1	KW DEMAND	21,649	21,379	21,105	64,133	21,378	1
2	KWH ENERGY	12,310,867	12,003,973	13,122,882	37,437,722	12,479,241	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ 0.416	\$ 0.416	\$ 0.416		\$ 0.416	3
4	CHARGE (a)	\$ 9,005.98	\$ 8,893.66	\$ 8,779.68	\$ 26,679.33	\$ 8,893.11	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ (0.001775)	\$ (0.001775)	\$ (0.001775)		\$ (0.001775)	5
6	CHARGE (b)	\$ (21,851.79)	\$ (21,307.05)	\$ (23,293.12)	\$ (66,451.96)	\$ (22,150.65)	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 2017 MAY 2017 JUNE 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)	*	21,416	11,164,544	6
	LINE 5 * LINE 6		\$ 241,765.22	\$ 143,989.12	
	OTHER CHARGES		-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		<u>\$ 241,765.22</u>	<u>\$ 143,989.12</u>	7

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

	APRIL 2017	MAY 2017	JUNE 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:
 APRIL 2017 MAY 2017 JUNE 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	25.376	24.335	5,434.6	2,716,871	\$ 61,351.10	\$ 35,039.48	\$ 96,390.58	1
2	RATE - B	16.395	14.470	3,511.1	1,615,481	39,636.67	20,834.86	60,471.53	2
3	RATE - C	11.602	9.402	2,484.6	1,049,706	28,048.92	13,538.06	41,586.98	3
4	RATE - D	45.935	51.034	9,837.4	5,697,701	111,054.43	73,483.24	184,537.67	4
5	FLAT RATES	0.692	0.759	148.3	84,785	1,674.10	1,093.48	2,767.58	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>100.000</u>	<u>100.000</u>	<u>21,416.0</u>	<u>11,164,544</u>	<u>\$ 241,765.22</u>	<u>\$ 143,989.12</u>	<u>\$ 385,754.34</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

APRIL 2017 MAY 2017 JUNE 2017

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
 APRIL 2017 MAY 2017 JUNE 2017

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		LINE NO.
		(A)	(B)	(C)	(D)	(E)	DEMAND (f)	ENERGY (g)	
1	RATE - A	2,595,571	0.025248	0.013838	\$ 64,615.51	\$ 35,414.67	\$ 4,567.27	\$ 1,116.11	1
2	RATE - B	1,543,355	0.027450	0.013835	41,771.98	21,053.38	3,139.83	689.77	2
3	RATE - C	1,002,840	0.030210	0.013818	29,871.66	13,663.24	2,311.02	362.10	3
4	RATE - D	5,443,316	0.022272	0.013954	119,536.26	74,892.65	5,397.63	1,456.13	4
5	FLAT RATES	81,000	0.022050	0.013838	1,761.05	1,105.19	123.37	35.25	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>10,666,082</u>			<u>\$ 257,556.46</u>	<u>\$ 146,129.13</u>	<u>\$ 15,539.12</u>	<u>\$ 3,659.36</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

APRIL 2017	MAY 2017	JUNE 2017
APRIL 2017	MAY 2017	JUNE 2017
	0.986	
	0.986	
APRIL 2017	MAY 2017	JUNE 2017
APRIL 2017	MAY 2017	JUNE 2017

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY
RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
 APRIL 2017 MAY 2017 JUNE 2017

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	\$ 60,048.24	\$ 34,298.56	\$ 94,346.80	\$ 1,302.86	\$ 740.92	\$ 2,043.78	1
2	RATE - B	38,632.15	20,363.61	58,995.76	1,004.52	471.25	1,475.77	2
3	RATE - C	27,560.64	13,301.14	40,861.78	488.28	236.92	725.20	3
4	RATE - D	114,138.63	73,436.52	187,575.15	(3,084.20)	46.72	(3,037.48)	4
5	FLAT RATES	1,637.68	1,069.94	2,707.62	36.42	23.54	59.96	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 242,017.34</u>	<u>\$ 142,469.77</u>	<u>\$ 384,487.11</u>	<u>\$ (252.12)</u>	<u>\$ 1,519.35</u>	<u>\$ 1,267.23</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	APRIL 2017	MAY 2017	JUNE 2017	TOTAL	ACTUAL 3 MONTH AVERAGE	LINE NO.
		(A)	(B)	(C)		(D)	
PURCHASED POWER FROM IMPA							
1	KW DEMAND (a)	18,020	22,282	23,945	64,247	21,416	1
2	KWH ENERGY (a)	10,150,559	11,215,638	12,127,436	33,493,633	11,164,544	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)	\$ 7,496.32	\$ 9,269.31	\$ 9,961.12	\$ 26,726.75	\$ 8,908.92	4
ENERGY RELATED							
5	ECA FACTOR PER KWH (a)	\$ (0.001775)	\$ (0.001775)	\$ (0.001775)		\$ (0.001775)	5
6	CHARGE (c)	\$ (18,017.24)	\$ (19,907.76)	\$ (21,526.20)	\$ (59,451.20)	\$ (19,817.07)	6

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

APRIL 2017 MAY 2017 JUNE 2017

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY
 DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF
 APRIL 2017 MAY 2017 JUNE 2017

<u>LINE NO.</u>	<u>RATE SCHEDULE</u>	<u>APRIL 2017</u> (A)	<u>MAY 2017</u> (B)	<u>JUNE 2017</u> (C)	<u>TOTAL</u> (D)	<u>AVERAGE</u> (E)	<u>LINE NO.</u>
1	RATE - A	3,001,159	2,322,083	2,463,472	7,786,714	2,595,571	1
2	RATE - B	1,683,442	1,442,481	1,504,143	4,630,066	1,543,355	2
3	RATE - C	1,265,426	897,465	845,628	3,008,519	1,002,840	3
4	RATE - D	5,162,589	5,628,678	5,538,680	16,329,947	5,443,316	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>11,193,616</u>	<u>10,371,707</u>	<u>10,432,923</u>	<u>31,998,246</u>	<u>10,666,082</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

Rate Schedule	APRIL 2017		MAY 2017		JUNE 2017		kW Demand Allocator for 2009 (G)
	Average Sales	Percent of Total	kWh Energy Factors	Variance	kW Demand Factors	Adjusted Factors	
	(A)	(B)	(C)	(D)	(E)	(F)	
RATE - A	2,595,571	24.335%	33.919%	-28.256%	34.096%	24.462%	25.376%
RATE - B	1,543,355	14.470%	21.193%	-31.724%	23.147%	15.804%	16.395%
RATE - C	1,002,840	9.402%	11.801%	-20.328%	14.037%	11.184%	11.602%
RATE - D	5,443,316	51.034%	32.013%	59.416%	27.776%	44.279%	45.935%
FLAT RATES	81,000	0.759%	1.074%	-29.291%	0.944%	0.667%	0.692%
							0.000%
	10,666,082	100.000%	100.000%		100.000%	96.396%	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
 2017 - 4TH QUARTER**

	OCT	NOV	DEC	OCT	NOV	DEC
	<u>\$/kW-month</u>			<u>\$/kWh</u>		
IMPA's Energy Cost Adjustment	0.416	0.416	0.416	(0.001775)	(0.001775)	(0.001775)
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for	<u>kW</u>			<u>kWh</u>		
TIPTON	21,649	21,379	21,105	12,310,867	12,003,973	13,122,882



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

Due Date: 6/14/2017	Amount Due: \$ 738,608.02
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Billing Period: April 1 to 30, 2017

Invoice No: INV0007448
Invoice Date: 5/15/2017

Summary of Charges	
Demand Charges:	\$ 446,373.42
Energy Charges:	\$ 292,234.60
Subtotal - Purchased Power Charges*:	\$ 738,608.02
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 738,608.02

*Average Purchased Power Cost: 7.28 cents per kWh

Due Date: 6/14/2017	Amount Due: \$ 738,608.02
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To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 06/14/17
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: April 1 to 30, 2017

Due Date:	Amount Due:
6/14/2017	\$ 738,608.02

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	19,023	3,017	98.77%	04/06/17	1000	74.11%
CP Billing Demand:	18,020	3,396	98.27%	04/26/17	1600	78.24%
kvar at 97% PF:		4,516				
Reactive Demand:		-				

Demand Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.965 / kW x	18,020	\$ 413,829.30
ECA Demand Charge:	\$ 0.416 / kW x	18,020	\$ 7,496.32
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.390 / kW x	18,020	\$ 25,047.80
Total Demand Charges:			\$ 446,373.42

Energy	
Energy Information	kWh
Getrag Banks #1-4:	1,703,525
Tipton #1:	4,642,635
Tipton #2:	3,803,119
Tipton Dist. Gen.:	1,280
Total Energy:	10,150,559

Energy Charges	Rate	Units	Charge
Base Energy Charge:	\$ 0.030565 / kWh x	10,150,559	\$ 310,251.84
ECA Energy Charge:	\$ (0.001775) / kWh x	10,150,559	\$ (18,017.24)
Total Energy Charges:			\$ 292,234.60

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

History			
	Apr 2017	Apr 2016	2017 YTD
Max Demand (kW):	19,023	19,497	23,282
CP Demand (kW):	18,020	19,203	23,282
Energy (kWh):	10,150,559	10,612,420	46,189,375
CP Load Factor:	78.24%	76.76%	
HDD/CDD (Indianapolis):	190/30	350/18	

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

IMPA Delivery Point Details

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 04/06/17 at 1000 EST				Demand at IMPA's Coincident Peak on 04/26/17 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	10,150,559						19,023	3,017	19,261	98.77%	18,020	3,396	18,337	98.27%
* Tipton Dist. Gen.	1,280	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	4,642,635	04/06/17 at 1000 EST	9,389	874	9,430	99.57%	9,389	874	9,430	99.57%	8,429	960	8,483	99.36%
* Tipton #2	3,803,119	04/06/17 at 1300 EST	7,277	874	7,329	99.29%	6,768	634	6,798	99.56%	6,691	883	6,749	99.14%
* Getrag Bank #1	23,117	04/19/17 at 1600 EST	72	29	78	92.76%	36	7	37	98.16%	22	7	23	95.29%
* Getrag Bank #2	79,692	04/06/17 at 0800 EST	180	58	189	95.18%	166	50	173	95.75%	130	58	142	91.32%
* Getrag Bank #3	508,740	04/06/17 at 1600 EST	972	612	1,149	84.62%	852	612	1,049	81.22%	816	564	992	82.26%
* Getrag Bank #4	1,091,976	04/20/17 at 1000 EST	2,160	1,152	2,448	88.24%	1,812	840	1,997	90.73%	1,932	924	2,142	90.21%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date: 7/14/2017	Amount Due: \$ 875,498.44
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Billing Period: May 1 to 31, 2017

Invoice No: INV0007548
Invoice Date: 6/14/2017

Summary of Charges	
Demand Charges:	\$ 552,600.22
Energy Charges:	\$ 322,898.22
Subtotal - Purchased Power Charges*:	\$ 875,498.44
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 875,498.44

*Average Purchased Power Cost: 7.81 cents per kWh

Due Date: 7/14/2017	Amount Due: \$ 875,498.44
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To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 07/14/17
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: May 1 to 31, 2017

Due Date: 7/14/2017	Amount Due: \$ 875,498.44
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Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	22,461	6,168	96.43%	05/18/17	1500	67.12%
CP Billing Demand:	22,282	6,128	96.42%	05/18/17	1600	67.65%
kvar at 97% PF:		5,584				
Reactive Demand:		544				

Demand Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.965 / kW x	22,282	\$ 511,706.13
ECA Demand Charge:	\$ 0.416 / kW x	22,282	\$ 9,269.31
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.390 / kW x	22,282	\$ 30,971.98
Reactive Demand Charge:	\$ 1.200 / kvar x	544	\$ 652.80
Total Demand Charges:			\$ 552,600.22

Energy	
Energy Information	kWh
Getrag Banks #1-4:	2,018,207
Tipton #1:	5,120,402
Tipton #2:	4,076,189
Tipton Dist. Gen.:	840
Total Energy:	11,215,638

Energy Charges	Rate	Units	Charge
Base Energy Charge:	\$ 0.030565 / kWh x	11,215,638	\$ 342,805.98
ECA Energy Charge:	\$ (0.001775) / kWh x	11,215,638	\$ (19,907.76)
Total Energy Charges:			\$ 322,898.22

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

History			
	May 2017	May 2016	2017 YTD
Max Demand (kW):	22,461	22,677	23,282
CP Demand (kW):	22,282	22,579	23,282
Energy (kWh):	11,215,638	10,792,255	57,405,013
CP Load Factor:	67.65%	64.24%	
HDD/CDD (Indianapolis):	147/74	159/83	

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

IMPA Delivery Point Details

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>					<u>Demand at TIPTON's Maximum Peak on 05/18/17 at 1500 EST</u>				<u>Demand at IMPA's Coincident Peak on 05/18/17 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	11,215,638						22,461	6,168	23,293	96.43%	22,282	6,128	23,109	96.42%
* Tipton Dist. Gen.	840	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,120,402	05/18/17 at 1300 EST	11,030	1,843	11,183	98.63%	10,694	2,035	10,886	98.24%	10,387	2,026	10,583	98.15%
* Tipton #2	4,076,189	05/18/17 at 1600 EST	8,698	2,314	9,001	96.64%	8,582	2,266	8,876	96.69%	8,698	2,314	9,001	96.64%
* Getrag Bank #1	22,018	05/24/17 at 1200 EST	79	29	84	93.87%	29	7	30	97.21%	29	-	29	100.00%
* Getrag Bank #2	44,413	05/04/17 at 1600 EST	180	58	189	95.18%	-	-	-	-	-	-	-	-
* Getrag Bank #3	589,524	05/11/17 at 1600 EST	1,020	648	1,208	84.41%	888	660	1,106	80.26%	972	648	1,168	83.21%
* Getrag Bank #4	1,362,252	05/10/17 at 1400 EST	2,340	1,152	2,608	89.72%	2,268	1,200	2,566	88.39%	2,196	1,140	2,474	88.75%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date: 8/14/2017	Amount Due: \$ 942,290.48
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Billing Period: June 1 to 30, 2017

Invoice No: INV0007625
Invoice Date: 7/14/2017

Summary of Charges

Demand Charges:	\$ 593,141.60
Energy Charges:	\$ 349,148.88
Subtotal - Purchased Power Charges*:	\$ 942,290.48
Other Charges and Credits:	\$ -
Net Amount Due:	\$ 942,290.48

*Average Purchased Power Cost: 7.77 cents per kWh

Due Date: 8/14/2017	Amount Due: \$ 942,290.48
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To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 08/14/17
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: June 1 to 30, 2017

Due Date:	Amount Due:
8/14/2017	\$ 942,290.48

Demand						
Demand Information	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	24,101	5,571	97.43%	06/12/17	1500	69.89%
CP Billing Demand:	23,945	5,546	97.42%	06/12/17	1600	70.34%
kvar at 97% PF:		6,001				
Reactive Demand:		-				

Demand Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.965 / kW x	23,945	\$ 549,896.93
ECA Demand Charge:	\$ 0.416 / kW x	23,945	\$ 9,961.12
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.390 / kW x	23,945	\$ 33,283.55
Total Demand Charges:			\$ 593,141.60

Energy	
Energy Information	kWh
Getrag Banks #1-4:	1,825,785
Tipton #1:	5,755,014
Tipton #2:	4,546,277
Tipton Dist. Gen.:	360
Total Energy:	12,127,436

Energy Charges	Rate	Units	Charge
Base Energy Charge:	\$ 0.030565 / kWh x	12,127,436	\$ 370,675.08
ECA Energy Charge:	\$ (0.001775) / kWh x	12,127,436	\$ (21,526.20)
Total Energy Charges:			\$ 349,148.88

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

History			
	Jun 2017	Jun 2016	2017 YTD
Max Demand (kW):	24,101	26,439	24,101
CP Demand (kW):	23,945	26,301	23,945
Energy (kWh):	12,127,436	12,579,986	69,532,449
CP Load Factor:	70.34%	66.43%	
HDD/CDD (Indianapolis):	3/220	1/295	

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

IMPA Delivery Point Details

Tipton Municipal Utilities

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

Delivery Point	Energy kWh	<u>Individual Substation Maximum Demand</u>					<u>Demand at TIPTON's Maximum Peak on 06/12/17 at 1500 EST</u>				<u>Demand at IMPA's Coincident Peak on 06/12/17 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	12,127,436						24,101	5,571	24,736	97.43%	23,945	5,546	24,579	97.42%
* Tipton Dist. Gen.	360	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,755,014	06/12/17 at 1300 EST	12,106	1,709	12,226	99.02%	11,923	1,565	12,025	99.15%	11,981	1,891	12,129	98.78%
* Tipton #2	4,546,277	06/12/17 at 1500 EST	9,552	2,506	9,875	96.73%	9,552	2,506	9,875	96.73%	9,370	2,275	9,642	97.18%
* Getrag Bank #1	18,189	06/26/17 at 0900 EST	58	14	60	97.21%	22	-	22	100.00%	14	-	14	100.00%
* Getrag Bank #2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Getrag Bank #3	536,172	06/28/17 at 1600 EST	972	624	1,155	84.15%	756	564	943	80.15%	804	516	955	84.16%
* Getrag Bank #4	1,271,424	06/29/17 at 1200 EST	2,352	1,176	2,630	89.44%	1,848	936	2,072	89.21%	1,776	864	1,975	89.92%