



TIPTON MUNICIPAL UTILITIES

Received: February 6, 2017
IURC 30-Day Filing No.: 50025
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

February 6, 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 April, May and June 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.

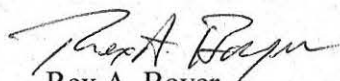
The person at the Tipton Municipal Electric Utility to be contacted regarding this filing is:

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	Increase	\$0.002847	per Kwh
Commercial -	Rate B	Increase	\$0.003213	per Kwh
General & Industrial Power -	Rate C	Increase	\$0.004088	per Kwh
Primary Power -	Rate D	Increase	\$0.001389	per Kwh

Rate Adjustments applicable to the Rate Schedules are as follows:

Residential -	Rate A	\$0.039089	per Kwh
Commercial -	Rate B	\$0.041285	per Kwh
General & Industrial Power -	Rate C	\$0.044028	per Kwh
Primary Power -	Rate D	\$0.036226	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 March 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 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	\$	0.039086 Per Kwh
RATE - B		0.041285 Per Kwh
RATE - C		0.044028 Per Kwh
RATE - D		0.036226 Per Kwh

MONTH'S EFFECTIVE:

APRIL 2017

MAY 2017

JUNE 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	\$ 0.002847 Per Kwh
RATE - B	\$ 0.003213 Per Kwh
RATE - C	\$ 0.004088 Per Kwh
RATE - D	\$ 0.001389 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 3rd day of February, 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.

Susan Munson

Susan Munson, Notary Public

My County of Residence: Tipton

My Commission expires:

May 8, 2019

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

QUARTERLY ENERGY COST ADJUSTMENT FACTOR

On April 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	\$	0.002847 / Kwh
RATE - B	\$	0.003213 / Kwh
RATE - C	\$	0.004088 / Kwh
RATE - D	\$	0.001389 / 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 \$2.85 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 \$1.99. 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. 2ND QTR 2017

Page 1 of 3

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:
APRIL 2017 MAY 2017 JUNE 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)	*	23,110	11,462,012	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)		\$ 273,830.39	\$ 155,161.26	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:
APRIL 2017 MAY 2017 JUNE 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	7,879.6	3,887,800	\$ 93,365.21	\$ 52,629.15	\$ 145,994.36	1
2	RATE - B	23.147	21.193	5,349.3	2,429,144	63,383.52	32,883.33	96,266.85	2
3	RATE - C	14.037	11.801	3,244.0	1,352,632	38,437.57	18,310.58	56,748.15	3
4	RATE - D	27.776	32.013	6,419.0	3,669,334	76,059.13	49,671.77	125,730.90	4
5	FLAT RATES	0.944	1.074	218.2	123,102	2,584.96	1,666.43	4,251.39	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	23,110.0	11,462,012	\$ 273,830.39	\$ 155,161.26	\$ 428,991.65	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:
APRIL 2017 MAY 2017 JUNE 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 (A)	ENERGY (B)	DEMAND (b) (C)	ENERGY (c) (D)	TOTAL (E)	DEMAND (F)	ENERGY (G)	TOTAL (H)	
1	RATE - A	\$ 4,794.03	\$ 1,171.52	\$ 98,159.24	\$ 53,800.67	\$ 151,959.91	\$ 0.025248	\$0.013838	\$0.039086	1
2	RATE - B	3,295.72	724.02	66,679.24	33,607.35	100,286.58	0.027450	0.013835	0.041285	2
3	RATE - C	2,425.76	380.08	40,863.33	18,690.66	59,553.99	0.030210	0.013818	0.044028	3
4	RATE - D	5,665.61	1,528.42	81,724.74	51,200.19	132,924.94	0.022272	0.013954	0.036226	4
5	FLAT RATES	129.50	37.00	2,714.46	1,703.43	4,417.89	0.022050	0.013838	0.035888	5
6										6
7										7
8										8
9										9
10	TOTAL	\$ 16,310.61	\$ 3,841.04	\$ 290,141.00	\$ 159,002.30	\$ 449,143.30	\$ 0.025313	\$0.013872	\$0.039185	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) -	13.482	0.015893	2
3	INCREMENTAL CHANGE IN BASE RATE (c)	\$10.873	\$0.014672	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:
APRIL 2017 MAY 2017 JUNE 2017

LINE NO.	DESCRIPTION	APRIL 2017 (A)	MAY 2017 (B)	JUNE 2017 (C)	TOTAL (D)	ESTIMATED 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND	19,546	22,995	26,788	69,329	23,110	1
2	KWH ENERGY	10,875,664	10,710,257	12,800,115	34,386,036	11,462,012	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW	\$ 0.416	\$ 0.416	\$ 0.416		\$ 0.416	3
4	CHARGE (a)	\$ 8,131.14	\$ 9,565.92	\$ 11,143.81	\$ 28,840.86	\$ 9,613.62	4
ENERGY RELATED							
5	ECA FACTOR PER KWH	\$ (0.001775)	\$ (0.001775)	\$ (0.001775)		\$ (0.001775)	5
6	CHARGE (b)	\$ (19,304.30)	\$ (19,010.71)	\$ (22,720.20)	\$ (61,035.21)	\$ (20,345.07)	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:

		OCT 2016	NOV 2016	DEC 2016			
LINE NO.	DESCRIPTION				DEMAND RELATED	ENERGY RELATED	LINE NO.
					(A)	(B)	
1	INCREMENTAL CHANGE IN BASE RATE (a)				\$ 10.241	\$ 0.014632	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+					2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+			0.038	0.001274	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO IMPA MEMBERSHIP (d)	+			0.000	0.000000	4
5	TOTAL RATE ADJUSTMENT (e)				10.279	\$ 0.015906	5
6	ACTUAL AVERAGE BILLING UNITS (f)	*			21,762	12,003,395	6
	LINE 5 * LINE 6				\$ 223,691.60	\$ 190,926.00	
	OTHER CHARGES				-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)				\$ 223,691.60	\$ 190,926.00	7

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

	OCT 2016	NOV 2016	DEC 2016
Base Rate Effective 01/01/2016		minus	Base Rate Effective 01/01/2004
Demand	\$23.723		\$13.482
Energy	\$0.030525		\$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:
OCT 2016 NOV 2016 DEC 2016

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	
		(A)	(B)			(E)	(F)	(G)	
1	RATE - A	24.157	23.546	5,257.0	2,826,345	\$ 54,036.30	\$ 44,955.85	\$ 98,992.15	1
2	RATE - B	17.194	15.424	3,741.7	1,851,459	38,460.64	29,449.31	67,909.95	2
3	RATE - C	16.998	14.002	3,699.1	1,680,718	38,023.36	26,733.51	64,756.87	3
4	RATE - D	41.020	46.323	8,926.8	5,560,366	91,758.58	88,443.18	180,201.76	4
5	FLAT RATES	0.632	0.704	137.4	84,506	1,412.72	1,344.15	2,756.87	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	21,762.0	12,003,395	\$ 223,691.60	\$ 190,926.00	\$ 414,617.60	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

OCT 2016 NOV 2016 DEC 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
OCT 20 NOV 2016 DEC 2016

LINE NO.	RATE SCHEDULE	ACTUAL AVERAGE KWH SALES (a) (A)	DEMAND ADJUSTMENT FACTOR PER KWH (b) (B)	ENERGY ADJUSTMENT FACTOR PER KWH (c) (C)	INCREMENTAL KW DEMAND COST BILLED BY MEMBER (d) (D)	INCREMENTAL KWH ENERGY COST BILLED BY MEMBER (e) (E)	LESS PREV. VARIANCE - SYSTEM SALES FROM FILING NUMBER		LINE NO.
							DEMAND (f) (F)	OCT 2016 ENERGY (g) (G)	
1	RATE - A	2,709,081	0.019615	0.016852	\$ 52,394.68	\$ 45,014.28	\$ 2,925.65	\$ 1,174.54	1
2	RATE - B	1,774,643	0.021283	0.016838	37,240.95	29,463.10	1,920.14	703.56	2
3	RATE - C	1,610,986	0.023344	0.016886	37,080.36	26,822.27	1,368.02	450.86	3
4	RATE - D	5,329,668	0.016813	0.016628	88,353.20	87,381.02	1,992.25	393.97	4
5	FLAT RATES	81,000	0.017133	0.016846	1,368.34	1,345.42	78.99	36.52	5
6									6
7									7
8									8
9									9
10	TOTAL	<u>11,505,378</u>			<u>\$ 216,437.53</u>	<u>\$ 190,026.09</u>	<u>\$ 8,285.05</u>	<u>\$ 2,759.45</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

OCT 2016

NOV 2016

DEC 2016

OCT 2016

NOV 2016

DEC 2016

0.986

0.986

OCT 2016

NOV 2016

DEC 2016

OCT 2016

NOV 2016

DEC 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:
OCT 2016 NOV 2016 DEC 2016

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	\$ 49,469.03	\$ 43,839.74	\$ 93,308.77	\$ 4,567.27	\$ 1,116.11	\$ 5,683.38	1
2	RATE - B	35,320.81	28,759.54	64,080.35	3,139.83	689.77	3,829.60	2
3	RATE - C	35,712.34	26,371.41	62,083.75	2,311.02	362.10	2,673.12	3
4	RATE - D	86,360.95	86,987.05	173,348.00	5,397.63	1,456.13	6,853.76	4
5	FLAT RATES	1,289.35	1,308.90	2,598.25	123.37	35.25	158.62	5
6								6
7								7
8								8
9								9
10	TOTAL	<u>\$ 208,152.48</u>	<u>\$ 187,266.64</u>	<u>\$ 395,419.12</u>	<u>\$ 15,539.12</u>	<u>\$ 3,659.36</u>	<u>\$ 19,198.48</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
OCT 2016 NOV 2016 DEC 2016

LINE NO.	DESCRIPTION	OCT 2016 (A)	NOV 2016 (B)	DEC 2016 (C)	TOTAL (D)	ACTUAL 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND (a)	23,199	18,799	23,288	65,286	21,762	1
2	KWH ENERGY (a)	11,867,191	11,161,374	12,981,620	36,010,185	12,003,395	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW (a)	\$ 0.038	\$ 0.038	\$ 0.038		\$ 0.038	3
4	CHARGE (b)	\$ 881.56	\$ 714.36	\$ 884.94	\$ 2,480.87	\$ 826.96	4
ENERGY RELATED							
5	ECA FACTOR PER KWH (a)	\$ 0.001274	\$ 0.001274	\$ 0.001274		\$ 0.001274	5
6	CHARGE (c)	\$ 15,118.80	\$ 14,219.59	\$ 16,538.58	\$ 45,876.98	\$ 15,292.33	6

(a) From IMPA bills for the months

(b) Line 1 times Line 3

(c) Line 2 times Line 5

OCT 2016

NOV 2016

DEC 2016

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF
OCT 2016 NOV 2016 DEC 2016

LINE NO.	RATE SCHEDULE	OCT 2016 (A)	NOV 2016 (B)	DEC 2016 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	3,181,499	2,340,343	2,605,401	8,127,243	2,709,081	1
2	RATE - B	1,926,976	1,663,928	1,733,026	5,323,930	1,774,643	2
3	RATE - C	1,625,849	1,701,928	1,505,180	4,832,957	1,610,986	3
4	RATE - D	5,711,551	5,458,605	4,818,847	15,989,003	5,329,668	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>12,526,875</u>	<u>11,245,804</u>	<u>10,743,454</u>	<u>34,516,133</u>	<u>11,505,378</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

	OCT 2016	NOV 2016	DEC 2016				
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	2,709,081	23.546%	33.919%	-30.581%	34.096%	23.669%	24.157%
RATE - B	1,774,643	15.424%	21.193%	-27.219%	23.147%	16.847%	17.194%
RATE - C	1,610,986	14.002%	11.801%	18.651%	14.037%	16.655%	16.998%
RATE - D	5,329,668	46.323%	32.013%	44.701%	27.776%	40.192%	41.020%
FLAT RATES	81,000	0.704%	1.074%	-34.449%	0.944%	0.619%	0.632%
							0.000%
	11,505,378	100.000%	100.000%		100.000%	97.982%	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 APRIL, MAY and JUNE
2017 - 2ND QUARTER**

	APR	MAY	JUN	APR	MAY	JUN
	\$/kW-month			\$/kWh		
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	kW			kWh		
TIPTON	19,546	22,995	26,788	10,875,664	10,710,257	12,800,115



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
12/14/16

Amount Due:
\$929,701.45

Billing Period: October 1 to 31, 2016

Invoice No: INV0006885
Invoice Date: 11/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	23,793	7,035	95.90%	10/06/16	1500	67.04%
CP Billing Demand:	23,199	6,735	96.03%	10/06/16	1600	68.76%
kvar at 97% PF:		5,814				
Reactive Demand:		921				

Energy*	kWh
Getrag Banks #1-4:	1,958,696
Tipton #1:	5,789,589
Tipton #2:	4,118,706
Tipton Dist. Gen.:	200
Total Energy:	11,867,191

History	Oct 2016	Oct 2015	2016 YTD
Max Demand (kW):	23,793	21,269	27,960
CP Demand (kW):	23,199	21,245	27,960
Energy (kWh):	11,867,191	11,893,682	123,317,160
CP Load Factor:	68.76%	75.25%	
HDD/CDD (Indianapolis):	170/45	258/14	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	23,199	\$ 515,713.77
ECA Demand Charge:	\$ 0.038 / kW x	23,199	\$ 881.56
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	23,199	\$ 34,636.11
Reactive Demand Charge:	\$ 1.200 / kvar x	921	\$ 1,105.20
Total Demand Charges:			\$ 552,336.64
Base Energy Charge:	\$ 0.030525 / kWh x	11,867,191	\$ 362,246.01
ECA Energy Charge:	\$ 0.001274 / kWh x	11,867,191	\$ 15,118.80
Total Energy Charges:			\$ 377,364.81
Average Purchased Power Cost: 7.83 cents per kWh			Total Purchased Power Charges: \$ 929,701.45

Other Charges and Credits

NET AMOUNT DUE: \$ 929,701.45

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

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 12/14/16

Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757

IMPA Delivery Point Details

Tipton Municipal Utilities

Billing Period: October 1, 2016 to October 31, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 10/06/16 at 1500 EST				Demand at IMPA's Coincident Peak on 10/06/16 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	11,867,191						23,793	7,035	24,811	95.90%	23,199	6,735	24,157	96.03%
* Tipton Dist. Gen.	200	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,789,589	10/17/16 at 1500 EST	18,509	4,445	19,035	97.24%	10,646	2,266	10,884	97.81%	10,147	2,074	10,357	97.97%
* Tipton #2	4,118,706	10/12/16 at 1100 EST	17,203	3,734	17,604	97.72%	9,869	2,976	10,308	95.74%	9,802	2,957	10,238	95.74%
* Getrag Bank #1	27,681	10/17/16 at 0800 EST	72	22	75	95.64%	36	7	37	98.16%	58	14	60	97.21%
* Getrag Bank #2	78,155	10/27/16 at 1900 EST	209	94	229	91.20%	122	58	135	90.31%	108	58	123	88.10%
* Getrag Bank #3	580,752	10/25/16 at 1600 EST	1,068	660	1,255	85.07%	900	624	1,095	82.18%	972	600	1,142	85.09%
* Getrag Bank #4	1,272,108	10/05/16 at 2100 EST	2,280	1,164	2,560	89.06%	2,220	1,104	2,479	89.54%	2,112	1,032	2,351	89.85%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
01/13/17

Amount Due:
\$801,603.57

Billing Period: November 1 to 30, 2016

Invoice No: INV0007024
Invoice Date: 12/14/16

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	20,137	3,511	98.51%	11/22/16	1100	76.98%
CP Billing Demand:	18,799	2,348	99.23%	11/21/16	800	82.46%
kvar at 97% PF:		4,711				
Reactive Demand:		-				

Energy*	kWh
Getrag Banks #1-4:	1,654,019
Tipton #1:	5,071,496
Tipton #2:	4,435,859
Tipton Dist. Gen.:	-
Total Energy:	11,161,374

History	Nov 2016	Nov 2015	2016 YTD
Max Demand (kW):	20,137	21,106	27,960
CP Demand (kW):	18,799	20,983	27,960
Energy (kWh):	11,161,374	11,577,180	134,478,534
CP Load Factor:	82.46%	76.63%	
HDD/CDD (Indianapolis):	503/5	509/4	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	18,799	\$ 417,901.77
ECA Demand Charge:	\$ 0.038 / kW x	18,799	\$ 714.36
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	18,799	\$ 28,066.91
Total Demand Charges:			\$ 446,683.04
Base Energy Charge:	\$ 0.030525 / kWh x	11,161,374	\$ 340,700.94
ECA Energy Charge:	\$ 0.001274 / kWh x	11,161,374	\$ 14,219.59
Total Energy Charges:			\$ 354,920.53
Average Purchased Power Cost: 7.18 cents per kWh			Total Purchased Power Charges: \$ 801,603.57

Other Charges and Credits

NET AMOUNT DUE: \$ 801,603.57

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

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 01/13/17

Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
Dept. 78757, P.O. Box 78000, Detroit, MI 48278-0757

IMPA Delivery Point Details

Tipton Municipal Utilities

Billing Period: November 1, 2016 to November 30, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 11/22/16 at 1100 EST				Demand at IMPA's Coincident Peak on 11/21/16 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	11,161,374						20,137	3,511	20,441	98.51%	18,799	2,348	18,945	99.23%
* Tipton Dist. Gen.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	5,071,496	11/22/16 at 1100 EST	9,619	1,162	9,689	99.28%	9,619	1,162	9,689	99.28%	9,504	778	9,536	99.67%
* Tipton #2	4,435,859	11/23/16 at 1200 EST	8,150	1,229	8,242	98.88%	8,102	1,123	8,179	99.05%	6,912	394	6,923	99.84%
* Getrag Bank #1	31,504	11/10/16 at 1000 EST	79	14	80	98.47%	50	-	50	100.00%	43	7	44	98.70%
* Getrag Bank #2	86,995	11/24/16 at 1100 EST	209	43	213	97.95%	158	50	166	95.34%	180	65	191	94.06%
* Getrag Bank #3	484,776	11/07/16 at 1700 EST	1,044	636	1,222	85.40%	648	432	779	83.21%	624	420	752	82.96%
* Getrag Bank #4	1,050,744	11/02/16 at 1400 EST	2,280	1,164	2,560	89.06%	1,560	744	1,728	90.26%	1,536	684	1,681	91.35%



IMPA

INDIANA MUNICIPAL POWER AGENCY

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

Due Date:
02/15/17

Amount Due:
\$966,148.69

Billing Period: December 1 to 31, 2016

Invoice No: INV0007110
Invoice Date: 01/16/17

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	23,685	3,399	98.99%	12/15/16	1100	73.67%
CP Billing Demand:	23,288	2,894	99.24%	12/19/16	900	74.92%
kvar at 97% PF:		5,837				
Reactive Demand:		-				

Energy*	kWh
Getrag Banks #1-4:	1,537,710
Tipton #1:	6,084,228
Tipton #2:	5,359,202
Tipton Dist. Gen.:	480
Total Energy:	12,981,620

History	Dec 2016	Dec 2015	2016 YTD
Max Demand (kW):	23,685	21,216	27,960
CP Demand (kW):	23,288	20,661	27,960
Energy (kWh):	12,981,620	12,282,697	147,460,154
CP Load Factor:	74.92%	79.90%	
HDD/CDD (Indianapolis):	1068/0	685/0	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 22.230 / kW x	23,288	\$ 517,692.24
ECA Demand Charge:	\$ 0.038 / kW x	23,288	\$ 884.94
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.493 / kW x	23,288	\$ 34,768.98
Total Demand Charges:			\$ 553,346.16
Base Energy Charge:	\$ 0.030525 / kWh x	12,981,620	\$ 396,263.95
ECA Energy Charge:	\$ 0.001274 / kWh x	12,981,620	\$ 16,538.58
Total Energy Charges:			\$ 412,802.53
Average Purchased Power Cost: 7.44 cents per kWh			Total Purchased Power Charges: \$ 966,148.69

Other Charges and Credits

NET AMOUNT DUE: \$ 966,148.69

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

To avoid a late payment charge, as provided for in Schedule B, payment in full must be received by: 02/15/17

Questions, please call: 317-573-9955

Send payments to: Indiana Municipal Power Agency
Dept. 78758, P.O. Box 78000, Detroit, MI 48278-0757

IMPA Delivery Point Details

Tipton Municipal Utilities

Billing Period: December 1, 2016 to December 31, 2016

Delivery Point	Energy kWh	Individual Substation Maximum Demand					Demand at TIPTON's Maximum Peak on 12/15/16 at 1100 EST				Demand at IMPA's Coincident Peak on 12/19/16 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	12,981,620						23,685	3,399	23,928	98.99%	23,288	2,894	23,467	99.24%
* Tipton Dist. Gen.	480		-	-	-	-	-	-	-	-	-	-	-	-
* Tipton #1	6,084,228	12/19/16 at 0800 EST	11,933	797	11,960	99.78%	11,702	874	11,735	99.72%	11,818	749	11,842	99.80%
* Tipton #2	5,359,202	12/15/16 at 1900 EST	10,195	1,565	10,314	98.84%	9,446	1,315	9,537	99.04%	9,187	950	9,236	99.47%
* Getrag Bank #1	40,707	12/16/16 at 1000 EST	86	14	87	98.70%	58	-	58	100.00%	65	7	65	99.43%
* Getrag Bank #2	129,723	12/19/16 at 0800 EST	288	72	297	97.01%	223	58	230	96.78%	274	72	283	96.72%
* Getrag Bank #3	458,640	12/09/16 at 0600 EST	936	552	1,087	86.14%	696	408	807	86.27%	648	408	766	84.62%
* Getrag Bank #4	908,640	12/08/16 at 1300 EST	1,872	852	2,057	91.02%	1,560	744	1,728	90.26%	1,296	708	1,477	87.76%