



TIPTON MUNICIPAL UTILITIES

P.O. Box 288  
Tipton, IN 46072-0288  
Office: 765-675-7629  
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Via Electronic Filing – 30 Day Filings – Electric

November 25, 2015

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 2015. 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.

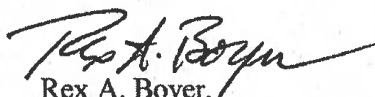
The person at the Tipton Municipal Electric Utility to be contacted regarding this filing is:

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**  
**1ST QUARTER, 2016**

**BILLING AND USAGE PERIOD: JANUARY THROUGH MARCH 2016**

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	\$	0.036715 Per Kwh
RATE - B		0.038880 Per Kwh
RATE - C		0.040277 Per Kwh
RATE - D		0.035497 Per Kwh

MONTH'S EFFECTIVE:

JAN 2016

FEB 2016

MAR 2016

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	\$ 0.002818 Per Kwh
RATE - B	\$ 0.003536 Per Kwh
RATE - C	\$ 0.003518 Per Kwh
RATE - D	\$ 0.004917 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 25<sup>th</sup> day of November, 2015 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 K. Munson

Susan Munson, Notary Public

My County of Residence: Tipton

My Commission expires:

May 8, 2019

## 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	\$0.002818	per Kwh
Commercial -	Rate B	Decrease	\$0.003536	per Kwh
General & Industrial Power -	Rate C	Decrease	\$0.003518	per Kwh
Primary Power -	Rate D	Decrease	\$0.004917	per Kwh

Rate Adjustments applicable to the Rate Schedules are as follows:

Residential -	Rate A	\$0.036715	per Kwh
Commercial -	Rate B	\$0.038880	per Kwh
General & Industrial Power -	Rate C	\$0.040277	per Kwh
Primary Power -	Rate D	\$0.035497	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 Regulator 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 January 2016 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

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

QUARTERLY ENERGY COST ADJUSTMENT FACTOR

On January 1, 2016 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	\$	0.002818 / Kwh
RATE - B	\$	0.003536 / Kwh
RATE - C	\$	0.003518 / Kwh
RATE - D	\$	0.004917 / 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 decrease of approximately \$2.82 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 \$1.97. 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**

**DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:**  
JAN 2016 FEB 2016 MAR 2016

LINE NO.	DESCRIPTION	(A) DEMAND RELATED	(B) ENERGY RELATED	LINE NO.
1	INCREMENTAL CHANGE IN BASE RATE (a)	10.241	0.014632	1
2	ESTIMATED SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	0.000		2
3	ESTIMATED PURCHASED POWER ENERGY COST ADJUSTMENT (c)	0.038	0.001274	3
4	ESTIMATED TOTAL CHANGE IN PURCHASED POWER RATE	10.279	0.015906	4
5	EST CHANGE IN PURCHASED POWER RATE ADJ FOR LOSSES & UTILITY RECEIPTS TAX (d)	10.802	0.016715	5
6	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO JANUARY 27, 1983 (e)	0.000	0.000000	6
7	ESTIMATED TOTAL RATE ADJUSTMENT	10.802	0.016715	7
8	ESTIMATED AVERAGE BILLING UNITS (f)	19,938	10,737,470	8
9	ESTIMATED INCREMENTAL CHANGE IN PURCHASED POWER COST (g)	\$ 215,370.28	\$ 179,476.81	9

(a) Exhibit I, Line 3

(b) Exhibit II, Line 9

(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

= 96.51%  
= 95.16%

CITY OF TIPTON, INDIANA

DETERMINATION OF RATE ADJUSTMENT FOR THE THREE MONTHS OF:  
JAN 20 FEB 2016 MAR 2016

LINE NO.	RATE SCHEDULE	KW DEMAND ALLOCATOR (%) (A)	KWH ENERGY ALLOCATOR (%) (B)	ALLOCATED ESTIMATED KWH PURCHASED (C)		INCREMENTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX	INCREMENTAL CHANGE IN PURCHASED POWER COST ADJ FOR LINE LOSSES & GROSS RECEIPTS TAX		LINE NO.
				ESTIMATED KWH PURCHASED (b)	ALLOCATED ESTIMATED KWH PURCHASED (c)		DEMAND (d)	ENERGY (e)	
1	RATE - A	34.096	33.919	6,798.1	3,642,042	\$ 73,432.65	\$ 60,876.74	\$ 134,309.39	1
2	RATE - B	23.147	21.193	4,615.0	2,275,592	49,851.76	38,036.52	87,888.28	2
3	RATE - C	14.037	11.801	2,798.7	1,267,129	30,231.53	21,180.06	51,411.59	3
4	RATE - D	27.776	32.013	5,538.0	3,437,386	59,821.25	57,455.91	117,277.16	4
5	FLAT RATES	0.944	1.074	188.2	115,320	2,033.10	1,927.58	3,960.68	5
6									6
7									7
8									8
9									9
10	TOTAL	100.000	100.000	19,938.0	10,737,470	\$ 215,370.28	\$ 179,476.81	\$ 394,847.09	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 2016 FEB 2016 MAR 2016

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)	ENERGY (c)	DEMAND (F)	ENERGY (G)	
1	RATE - A	\$ 1,189.01	\$ (1,782.22)	\$ 74,621.66	\$ 59,094.52	\$ 0.020489	\$0.016226	1
2	RATE - B	904.31	(318.42)	50,756.07	37,718.10	0.022305	0.016575	2
3	RATE - C	369.80	(745.62)	30,601.33	20,434.44	0.024150	0.016127	3
4	RATE - D	4,568.93	170.13	64,390.18	57,626.04	0.018732	0.016764	4
5	FLAT RATES	31.45	(17.88)	2,064.55	1,909.70	0.017903	0.016560	5
6								6
7								7
8								8
9								9
10	TOTAL	\$ 7,063.49	\$ (2,694.00)	\$ 222,433.78	\$ 176,782.81	\$ 0.020716	\$0.016464	\$0.037180

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

95.16%

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, 2016 (a)	\$ 23.723	\$ 0.030525	1
2	BASE RATE EFFECTIVE January 1, 2004 (b)	13.482	0.015893	2
3	INCREMENTAL CHANGE IN BASE RATE (c)	\$10.241	\$0.014632	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 on 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:  
JAN 2016 FEB 2016 MAR 2016

LINE NO.	DESCRIPTION	JAN 2016 (A)	FEB 2016 (B)	MAR 2016 (C)	TOTAL (D)	ESTIMATED 3 MONTH AVERAGE (E)	LINE NO.
PURCHASED POWER FROM IMPA							
1	KW DEMAND	20,614	20,522	18,679	59,815	19,938	1
2	KWH ENERGY	11,666,308	10,342,647	10,203,456	32,212,411	10,737,470	2
INCREMENTAL PURCHASED POWER COSTS							
DEMAND RELATED							
3	ECA FACTOR PER KW CHARGE (a)	\$ 0.038	\$ 0.038	\$ 0.038	\$ 0.038	\$ 0.038	3
4		\$ 783.33	\$ 779.84	\$ 709.80	\$ 2,272.97	\$ 757.66	4
ENERGY RELATED							
5	ECA FACTOR PER KWH CHARGE (b)	\$ 0.001274	\$ 0.001274	\$ 0.001274	\$ 0.001274	\$ 0.001274	5
6		\$ 14,862.88	\$ 13,176.53	\$ 12,999.20	\$ 41,038.61	\$ 13,679.54	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 2015 AUG 2015 SEPT 2015

LINE NO.	DESCRIPTION	(A) DEMAND RELATED	(B) ENERGY RELATED	LINE NO.
1	INCREMENTAL CHANGE IN BASE RATE (a)	\$ 8,960	\$ 0.014888	1
2	ACTUAL SAVINGS FROM DEDICATED CAPACITY PAYMENTS (b)	+		2
3	ACTUAL PURCHASED POWER ENERGY COST ADJUSTMENT (c)	+	0.002460	3
4	PLUS TRACKING FACTOR EFFECTIVE PRIOR TO IMPA MEMBERSHIP (d)	+	0.000000	4
5	TOTAL RATE ADJUSTMENT (e)	8,983	\$ 0.017348	5
6	ACTUAL AVERAGE BILLING UNITS (f)	25,866	13,003,519	6
	LINE 5 * LINE 6	\$ 232,354.28	\$ 225,585.05	
	OTHER CHARGES	-	-	
7	ACTUAL INCREMENTAL CHANGE IN PURCHASED POWER COST (g)	\$ 232,354.28	\$ 225,585.05	7

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

JULY 2015	AUG 2015	SEPT 2015
Base Rate Effective 01/01/2015	minus	Base Rate Effective 01/01/2004
Demand	\$22,378,000	\$13,482,000
Energy	\$0.030781	\$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:

LINE NO.	RATE SCHEDULE	JULY 2015		AUG 2015		SEPT 2015		INCREMENTAL CHANGE IN PURCHASED POWER COST DEMAND (d)	ENERGY (e)	TOTAL (G)	LINE NO.
		KW DEMAND ALLOCATOR (%) (a)	KWH ENERGY ALLOCATOR (%) (b)	ALLOCATED ACTUAL KW PURCHASED (c)	ALLOCATED ACTUAL KWH PURCHASED (c)	INCREMENTAL CHANGE IN PURCHASED POWER COST DEMAND (d)	ENERGY (e)				
1	RATE - A	27.731	26.634	7,173.0	3,463,339	\$ 64,434.61	\$ 60,082.01	\$ 124,516.62	1		
2	RATE - B	17.905	15.827	4,631.3	2,058,048	41,602.70	35,703.01	77,305.71	2		
3	RATE - C	9.778	7.936	2,529.1	1,031,966	22,718.77	17,902.55	40,621.32	3		
4	RATE - D	43.994	48.953	11,379.6	6,365,623	102,222.86	110,430.83	212,653.69	4		
5	FLAT RATES	0.592	0.650	153.1	84,543	1,375.34	1,466.66	2,842.00	5		
6									6		
7									7		
8									8		
9									9		
10	TOTAL	100.000	100.000	25,866.0	13,003,519	\$ 232,354.28	\$ 225,585.05	\$ 457,939.33	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

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:  
 JULY 2015      AUG 2015      SEPT 2015

LINE NO.	RATE SCHEDULE	ACTUAL AVERAGE KWH SALES (a)	DEMAND ADJUSTMENT FACTOR PER KWH (b)	ENERGY ADJUSTMENT FACTOR PER KWH (c)	INCREMENTAL		INCREMENTAL KWH ENERGY COST BILLED BY MEMBER (e)	LESS PREV. VARIANCE - SYSTEM SALES FROM FILING NUMBER		LINE NO.
					KW DEMAND COST BILLED BY MEMBER (d)	KWH ENERGY COST BILLED BY MEMBER (e)		DEMAND (f)	ENERGY (g)	
1	RATE - A	3,318,186	0.018905	0.017251	\$ 61,852.08	\$ 56,440.64	\$ (1,451.07)	\$ (5,337.33)	1	
2	RATE - B	1,971,792	0.020874	0.017476	40,582.96	33,976.61	(159.20)	(2,029.41)	2	
3	RATE - C	988,715	0.022466	0.017306	21,901.50	16,871.15	(465.37)	(1,740.93)	3	
4	RATE - D	6,098,831	0.015687	0.016952	94,332.95	101,939.96	(3,542.12)	(8,328.97)	4	
5	FLAT RATES	81,000	0.016857	0.017606	1,346.30	1,406.12	0.89	(77.55)	5	
6									6	
7									7	
8									8	
9									9	
10	TOTAL	12,458,524			\$ 220,015.79	\$ 210,634.48	\$ (5,616.87)	\$ (17,514.19)	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 0.986
- (e) Column A times Column C times the Utility Receipts Tax Factor of 0.986
- (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

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

RECONCILIATION OF VARIANCES FOR THE THREE MONTHS OF:  
 JULY 2015                      AUG 2015                      SEPT 2015

LINE NO.	RATE SCHEDULE	NET INCREMENTAL COST BILLED BY MEMBER			TOTAL (C)	DEMAND (c) (D)	VARIANCE ENERGY (c) (E)	TOTAL (c) (F)	LINE NO.
		DEMAND (a) (A)	ENERGY (b) (B)	TOTAL (C)					
1	RATE - A	\$ 63,303.15	\$ 61,777.97	\$ 125,081.12	\$ 1,131.46	\$ (1,695.96)	\$ (564.50)	1	
2	RATE - B	40,742.16	36,006.02	76,748.18	860.54	(303.01)	557.53	2	
3	RATE - C	22,366.87	18,612.08	40,978.95	351.90	(709.53)	(357.63)	3	
4	RATE - D	97,875.07	110,268.93	208,144.00	4,347.79	161.90	4,509.69	4	
5	FLAT RATES	1,345.41	1,483.67	2,829.08	29.93	(17.01)	12.92	5	
6								6	
7								7	
8								8	
9								9	
10	TOTAL	\$ 225,632.66	\$ 228,148.67	\$ 453,781.33	\$ 6,721.62	\$ (2,563.61)	\$ 4,158.01	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 2015 AUG 2015 SEPT 2015

LINE NO.	DESCRIPTION	JULY 2015 (A)	AUG 2015 (B)	SEPT 2015 (C)	TOTAL (D)	ACTUAL 3 MONTH AVERAGE (E)	LINE NO.
	PURCHASED POWER FROM IMPA						
1	KW DEMAND (a)	26,978	24,225	26,395	77,598	25,866	1
2	KWH ENERGY (a)	13,051,051	13,244,845	12,714,660	39,010,556	13,003,519	2
	INCREMENTAL PURCHASED POWER COSTS						
	DEMAND RELATED						
3	ECA FACTOR PER KW (a)	\$ 0.087	\$ 0.087	\$ 0.087	\$ 0.087	\$ 0.087	3
4	CHARGE (b)	\$ 2,347.09	\$ 2,107.58	\$ 2,296.37	\$ 6,751.03	\$ 2,250.34	4
	ENERGY RELATED						
5	ECA FACTOR PER KWH (a)	\$ 0.002460	\$ 0.002460	\$ 0.002460	\$ 0.002460	\$ 0.002460	5
6	CHARGE (c)	\$ 32,105.59	\$ 32,582.32	\$ 31,278.06	\$ 95,965.97	\$ 31,988.66	6

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



TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL AVERAGE KWH SALES FOR THE THREE MONTHS OF  
 JULY 2015 AUG 2015 SEPT 2015

LINE NO.	RATE SCHEDULE	JULY 2015 (A)	AUG 2015 (B)	SEPT 2015 (C)	TOTAL (D)	AVERAGE (E)	LINE NO.
1	RATE - A	3,052,687	3,354,079	3,547,792	9,954,558	3,318,186	1
2	RATE - B	1,878,230	2,025,468	2,011,679	5,915,377	1,971,792	2
3	RATE - C	852,479	912,169	1,201,498	2,966,146	988,715	3
4	RATE - D	6,087,911	6,092,573	6,116,008	18,296,492	6,098,831	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>11,952,307</u>	<u>12,465,289</u>	<u>12,957,977</u>	<u>37,375,573</u>	<u>12,458,524</u>	10

TIPTON (INDIANA) MUNICIPAL ELECTRIC UTILITY

DETERMINATION OF ACTUAL KW DEMAND ALLOCATION AND KWH ENERGY ALLOCATION FACTORS

Rate Schedule	JULY 2015		AUG 2015		SEPT 2015		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	3,318,186	26.634%	33.919%	-21,478%	34.096%	26.773%	27.731%
RATE - B	1,971,792	15.827%	21.193%	-25.320%	23.147%	17.286%	17.905%
RATE - C	988,715	7.936%	11.801%	-32.751%	14.037%	9.440%	9.778%
RATE - D	6,098,831	48.953%	32.013%	52.916%	27.776%	42.474%	43.994%
FLAT RATES	81,000	0.650%	1.074%	-39.464%	0.944%	0.571%	0.592%
	12,458,524	100.000%	100.000%		100.000%	96.544%	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)



# IMPA

INDIANA MUNICIPAL POWER AGENCY

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

**Due Date:**  
**09/14/15**

**Amount Due:**  
**\$1,039,890.77**

Billing Period: July 1 to 31, 2015  
Invoice No: INV0005414  
Invoice Date: 08/14/15

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	27,257	6,866	96.97%	07/29/15	1400	64.36%
CP Billing Demand:	26,978	6,704	97.05%	07/28/15	1500	65.02%
kvar at 97% PF:		6,761				
Reactive Demand:		-				

Energy*	kWh
Tipton #1:	6,145,885
Tipton #2:	4,838,676
Getrag Bank #1:	14,680
Getrag Bank #2:	16,082
Getrag Bank #3:	545,112
Getrag Bank #4:	1,490,616
<b>Total Energy:</b>	<b>13,051,051</b>

13  
13  
99%  
C

History	Jul 2015	Jul 2014	2015 YTD
Max Demand (kW):	27,257	23,995	27,257
CP Demand (kW):	26,978	23,525	26,978
Energy (kWh):	13,051,051	11,674,089	86,243,062
CP Load Factor:	65.02%	66.70%	
HDD/CDD (Indianapolis):	0/303	4/172	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 / kW x	26,978	\$ 563,759.27
ECA Demand Charge:	\$ 0.087 / kW x	26,978	\$ 2,347.09
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.481 / kW x	26,978	\$ 39,954.42
Total Demand Charges:			\$ 606,060.78
Base Energy Charge:	\$ 0.030781 / kWh x	13,051,051	\$ 401,724.40
ECA Energy Charge:	\$ 0.002460 / kWh x	13,051,051	\$ 32,105.59
Total Energy Charges:			\$ 433,829.99
<b>Average Purchased Power Cost: 7.97 cents per kWh</b>			<b>Total Purchased Power Charges: \$ 1,039,890.77</b>

Other Charges and Credits

**NET AMOUNT DUE: \$ 1,039,890.77**

\* Getrag: units adjusted by 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: 09/14/15

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: July 1, 2015 to July 31, 2015

Delivery Point	Energy kWh	Individual Substation Maximum Demand				Demand at TIPTON's Maximum Peak on 07/29/15 at 1400 EST				Demand at IMPA's Coincident Peak on 07/28/15 at 1500 EST				
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	Power Factor	CP kW	kvar at CP	kVA	Power Factor
<b>TOTAL</b>	<b>13,051,051</b>													
Tipton #1	6,145,885	07/29/15 at 1300 EST	13,229	2,074	13,391	98.79%	13,181	2,035	13,337	98.83%	12,691	1,690	12,803	99.12%
Tipton #2	4,838,676	07/28/15 at 1500 EST	10,771	3,130	11,217	96.03%	10,493	2,928	10,894	96.32%	10,771	3,130	11,217	96.03%
Getrag Bank #1	14,680	07/31/15 at 1300 EST	72	22	75	95.64%	43	7	44	98.70%	36	-	36	100.00%
Getrag Bank #2	16,082	07/02/15 at 1000 EST	79	22	82	96.33%	-	-	-	-	-	-	-	-
Getrag Bank #3	545,112	07/14/15 at 1600 EST	984	624	1,165	84.45%	828	576	1,009	82.09%	840	564	1,012	83.02%
Getrag Bank #4	1,490,616	07/29/15 at 1400 EST	2,712	1,320	3,016	89.92%	2,712	1,320	3,016	89.92%	2,640	1,320	2,952	89.44%



# IMPA

INDIANA MUNICIPAL POWER AGENCY

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

**Due Date:**  
**10/14/15**

**Amount Due:**  
**\$984,721.73**

Billing Period: August 1 to 31, 2015

Invoice No: INV0005503  
Invoice Date: 09/14/15

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	25,719	5,887	97.48%	08/31/15	1500	69.22%
CP Billing Demand:	24,225	6,267	96.81%	08/03/15	1600	73.49%
kvar at 97% PF:		6,071				
Reactive Demand:		196				

Energy*	kWh
Tipton #1:	6,109,322
Tipton #2:	4,945,896
Getrag Bank #1:	32,099
Getrag Bank #2:	-
Getrag Bank #3:	580,296
Getrag Bank #4:	1,577,232
<b>Total Energy:</b>	<b>13,244,845</b>

History	Aug 2015	Aug 2014	2015 YTD
Max Demand (kW):	25,719	26,698	27,257
CP Demand (kW):	24,225	26,348	26,978
Energy (kWh):	13,244,845	12,865,171	99,487,907
CP Load Factor:	73.49%	65.63%	
HDD/CDD (Indianapolis):	2/251	2/283	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 / kW x	24,225	\$ 506,229.83
ECA Demand Charge:	\$ 0.087 / kW x	24,225	\$ 2,107.58
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.481 / kW x	24,225	\$ 35,877.23
Reactive Demand Charge:	\$ 1.200 / kvar x	196	\$ 235.20
		<b>Total Demand Charges:</b>	<b>\$ 544,449.84</b>
Base Energy Charge:	\$ 0.030781 / kWh x	13,244,845	\$ 407,689.57
ECA Energy Charge:	\$ 0.002460 / kWh x	13,244,845	\$ 32,582.32
		<b>Total Energy Charges:</b>	<b>\$ 440,271.89</b>
<b>Average Purchased Power Cost: 7.44 cents per kWh</b>			<b>Total Purchased Power Charges: \$ 984,721.73</b>

Other Charges and Credits

**NET AMOUNT DUE: \$ 984,721.73**

\* Getrag: units adjusted by 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: 10/14/15

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: August 1, 2015 to August 31, 2015

Delivery Point	Energy kWh	Individual Substation Maximum Demand				Demand at TIPTON's Maximum Peak on 08/31/15 at 1500 EST			Demand at IMPA's Coincident Peak on 08/03/15 at 1600 EST				
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	CP kW	kvar at CP	kVA	Power Factor
<b>TOTAL</b>	<b>13,244,845</b>												
Tipton #1	6,109,322	08/31/15 at 1400 EST	12,336	1,584	12,437	99.19%	25,719	5,887	26,384	24,225	6,267	25,023	96.81%
Tipton #2	4,945,896	08/03/15 at 1500 EST	10,176	2,851	10,568	96.29%	12,106	1,478	12,196	11,318	2,026	11,498	98.44%
Getrag Bank #1	32,099	08/12/15 at 0700 EST	72	14	73	98.16%	10,061	2,429	10,350	9,744	2,554	10,073	96.73%
Getrag Bank #2	-	-	-	-	-	-	36	-	36	43	7	44	98.70%
Getrag Bank #3	580,296	08/25/15 at 1600 EST	1,032	600	1,194	86.45%	-	-	-	852	516	996	85.54%
Getrag Bank #4	1,577,232	08/31/15 at 1300 EST	2,640	1,416	2,996	88.12%	2,640	1,368	2,973	2,268	1,164	2,549	88.97%



# IMPA

INDIANA MUNICIPAL POWER AGENCY

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

**Due Date:**  
**11/13/15**

**Amount Due:**  
**\$1,015,611.70**

Billing Period: September 1 to 30, 2015  
Invoice No: INV0005593  
Invoice Date: 10/14/15

Demand*	kW	kvar	Power Factor	Date	Time (EST)	Load Factor
Maximum Demand:	27,437	6,849	97.02%	09/08/15	1500	64.36%
CP Billing Demand:	26,395	6,108	97.43%	09/03/15	1500	66.90%
kvar at 97% PF:		6,615				
Reactive Demand:		-				

Energy*	kWh
Tipton #1:	5,599,237
Tipton #2:	5,084,282
Getrag Bank #1:	30,345
Getrag Bank #2:	-
Getrag Bank #3:	524,280
Getrag Bank #4:	1,476,516
<b>Total Energy:</b>	<b>12,714,660</b>

History	Sep 2015	Sep 2014	2015 YTD
Max Demand (kW):	27,437	26,452	27,437
CP Demand (kW):	26,395	26,412	26,978
Energy (kWh):	12,714,660	11,673,042	112,202,567
CP Load Factor:	66.90%	61.38%	
HDD/CDD (Indianapolis):	19/191	73/94	

Purchased Power Charges	Rate	Units	Charge
Base Demand Charge:	\$ 20.897 / kW x	26,395	\$ 551,576.32
ECA Demand Charge:	\$ 0.087 / kW x	26,395	\$ 2,296.37
Delivery Voltage Charge - Less than 34.5 kV:	\$ 1.481 / kW x	26,395	\$ 39,091.00
<b>Total Demand Charges:</b>			<b>\$ 592,963.69</b>
Base Energy Charge:	\$ 0.030781 / kWh x	12,714,660	\$ 391,369.95
ECA Energy Charge:	\$ 0.002460 / kWh x	12,714,660	\$ 31,278.06
<b>Total Energy Charges:</b>			<b>\$ 422,648.01</b>
<b>Average Purchased Power Cost: 7.99 cents per kWh</b>			<b>Total Purchased Power Charges: \$ 1,015,611.70</b>

Other Charges and Credits

**NET AMOUNT DUE: \$ 1,015,611.70**

\* Getrag: units adjusted by 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: 11/13/15

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: September 1, 2015 to September 30, 2015

Delivery Point	Energy kWh	Individual Substation Maximum Demand				Demand at TIPTON's Maximum Peak on 09/08/15 at 1500 EST			Demand at IMPA's Coincident Peak on 09/03/15 at 1500 EST				
		Date & Time	Max kW	kvar at Max	kVA at Max	Power Factor	kW at Memb Max	kvar at Memb Max	kVA	CP kW	kvar at CP	kVA	Power Factor
<b>TOTAL</b>	<b>12,714,660</b>												
Tipton #1	5,599,237	09/08/15 at 1500 EST	13,296	1,891	13,430	99.00%	27,437	6,849	28,279	26,395	6,108	27,093	97.43%
Tipton #2	5,084,282	09/08/15 at 1500 EST	10,781	3,043	11,202	96.24%	13,296	1,891	13,430	12,662	1,651	12,769	99.16%
Getrag Bank #1	30,345	09/07/15 at 0500 EST	72	22	75	95.64%	10,781	3,043	11,202	10,157	2,477	10,455	97.15%
Getrag Bank #2	-	-	-	-	-	-	36	7	37	36	-	36	100.00%
Getrag Bank #3	524,280	09/01/15 at 1600 EST	984	612	1,159	84.92%	816	588	1,006	876	636	1,083	80.92%
Getrag Bank #4	1,476,516	09/02/15 at 1500 EST	2,736	1,392	3,070	89.13%	2,508	1,320	2,834	2,664	1,344	2,984	89.28%



**INDIANA MUNICIPAL POWER AGENCY  
 ECA ESTIMATES FOR JANUARY, FEBRUARY and MARCH  
 2016 - 1ST QUARTER**

	JAN	FEB	MAR	JAN	FEB	MAR
		\$/kW-month			\$/kWh	
IMPA's Energy Cost Adjustment	0.038	0.038	0.038	0.001274	0.001274	0.001274
To develop these Energy Cost Adjustment factors, IMPA used the following estimated loads for						
<b>TIPTON</b>	20,614	20,522	18,679	11,666,308	10,342,647	10,203,456
		kW			kWh	

**Table 5 - 9/18/2015 Proposal  
2016 RATE STUDY**

**Proposed Demand and Energy Rates by Member**

LINE NO.	MEMBER	IMPA		DELIVERY		ENERGY COST ADJ.		TOTAL DEMAND RATE \$/kW-Mo	REACTIVE DEMAND RATE \$/kvar-Mo	TOTAL ENERGY RATE Cents/kWh
		DEMAND \$/kW-Mo	ENERGY \$/kWh	DEMAND \$/kW-Mo	ENERGY Cents/kWh	DEMAND \$/kW-Mo	ENERGY \$/kWh			
1	ADVANCE	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
2	ANDERSON	22.230	0.030525	0.425	0.038	0.001274	22.693	1.200	0.031799	
3	ARGOS	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
4	BAINBRIDGE	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
5	BARGERSVILLE	22.230	0.030525	1.288	0.038	0.001274	23.556	1.200	0.031799	
6	BLANCHESTER OH	22.230	0.030525	1.187	0.038	0.001274	23.455	1.200	0.031799	
7	BREMEN	22.230	0.030525	1.304	0.038	0.001274	23.572	1.200	0.031799	
8	BROOKLYN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
9	BROOKSTON	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
10	CENTERVILLE	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
11	CHALMERS	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
12	COATESVILLE	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
13	COLUMBIA CITY	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
14	COVINGTON	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
15	CRAWFORDSVILLE	22.230	0.030525	0.000	0.038	0.001274	22.268	1.200	0.031799	
16	DARLINGTON	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
17	DUBLIN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
18	DUNREITH	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
19	EDINBURGH	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
20	ETNA GREEN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
21	FLORA	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
22	FRANKFORT	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
23	FRANKTON	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
24	GAS CITY	22.230	0.030525	0.000	0.038	0.001274	22.268	1.200	0.031799	
25	GREENDALE	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
26	GREENFIELD	22.230	0.030525	0.376	0.038	0.001274	22.644	1.200	0.031799	
27	HUNTINGBURG	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
28	JAMESTOWN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
29	JASPER	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
30	KINGSFORD HEIGHTS	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
31	KNIGHTSTOWN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
32	LADOGA	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	

**Table 5 - 9/18/2015 Proposal  
2016 RATE STUDY**

**Proposed Demand and Energy Rates by Member**

LINE NO.	MEMBER	IMPA		DELIVERY		ENERGY COST ADJ.		TOTAL DEMAND RATE \$/kW-Mo	REACTIVE DEMAND RATE \$/kvar-Mo	TOTAL ENERGY RATE Cents/kWh
		DEMAND \$/kW-Mo	ENERGY \$/kWh	DEMAND \$/kW-Mo	ENERGY Cents/kWh	DEMAND \$/kW-Mo	ENERGY \$/kWh			
33	LAWRENCEBURG	22.230	0.030525	0.776	0.038	0.001274	23.044	1.200	0.031799	
34	LEBANON	22.230	0.030525	0.935	0.038	0.001274	23.203	1.200	0.031799	
35	LEWISVILLE	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
36	LINTON	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
37	MIDDLETOWN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
38	MONTEZUMA	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
39	NEW ROSS	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
40	PAOLI	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
41	PENDLETON	22.230	0.030525	0.978	0.038	0.001274	23.246	1.200	0.031799	
42	PERU	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
43	PITTSBORO	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
44	RENSELAER	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
45	RICHMOND	22.230	0.030525	0.000	0.038	0.001274	22.268	1.200	0.031799	
46	ISING SUN	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
47	ROCKVILLE	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
48	SCOTTSBURG	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
49	SOUTH WHITLEY	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
50	SPICELAND	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
51	STRAUGHN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
52	TELL CITY	22.230	0.030525	0.787	0.038	0.001274	23.055	1.200	0.031799	
53	THORNTOWN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
54	TIPTON	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
55	VEEDERSBURG	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
56	WALKERTON	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
57	WASHINGTON	22.230	0.030525	0.000	0.038	0.001274	22.268	1.200	0.031799	
58	WAYNETOWN	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
59	WILLIAMSPORT	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	
60	WINAMAC	22.230	0.030525	1.493	0.038	0.001274	23.761	1.200	0.031799	

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