

# FILED

December 22, 2020 INDIANA UTILITY REGULATORY COMMISSION

## STATE OF INDIANA

#### INDIANA UTILITY REGULATORY COMMISSION

PETITION OF SOUTHERN INDIANA GAS AND )	
ELECTRIC COMPANY D/B/A VECTREN ENERGY )	
DELIVERY OF INDIANA, INC., A CENTERPOINT )	
ENERGY COMPANY ("VECTREN SOUTH") FOR )	
APPROVAL OF A CHANGE IN ITS FUEL )	
COST ADJUSTMENT FOR ELECTRIC ) SERVICE IN ACCORDANCE WITH THE ) ORDER OF THE COMMISSION IN CAUSE ) NO. 37712 EFFECTIVE JUNE 18, 1986 AND ) SENATE BILL NO. 529 EFFECTIVE APRIL 11, ) 1979	CAUSE NO. 38708 FAC-129 IURC PUBLIC'S
	DATE REPORTER

# INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

PUBLIC'S EXHBIT NO. 2

TESTIMONY OF OUCC WITNESS MICHAEL D. ECKERT

December 22, 2020

Respectfully Submitted,

Lorraine Hitz-Bradley

Attorney No. 18006-29

Deputy Consumer Counselor

# TESTIMONY OF OUCC WITNESS MICHAEL D. ECKERT CAUSE NO. 38708 FAC-129 SOUTHERN INDIANA GAS AND ELECTRIC COMPANY ("VECTREN SOUTH ELECTRIC")

# I. <u>INTRODUCTION</u>

1	Q:	Please state your name, business address, and employment capacity.
2	A:	My name is Michael D. Eckert and my business address is 115 W. Washington St.,
3		Suite 1500 South, Indianapolis, IN, 46204. I am employed as an Assistant Director in
4		the Electric Division for the Indiana Office of Utility Consumer Counselor
5		("OUCC"). My qualifications are set forth in Appendix A of this document.
6 7	Q:	Have you previously testified before the Indiana Utility Regulatory Commission ("Commission")?
8	A:	Yes.
9	Q:	What is the purpose of your testimony in this cause?
10	A:	I discuss my analysis of Vectren South Electric's ("VSE") fuel clause adjustment
11		("FAC") request and the (1) applicability of Commission Cause No. 43414 as it
12		relates to purchased power over the benchmark; (2) impact of contestable revenue
13		sufficiency guarantee ("RSG") charges; (3) ancillary services market ("ASM"); (4)
14		bill analysis; (5) steam generation costs; (6) actual cost of fuel (Mills/kWh)
15		comparison; (7) coal inventory; (8) line-loss adjustment; (9) wind farms; and 10)
16		commitment status. Ultimately, the OUCC recommends the Commission require
17		VSE to update the Commission in its next FAC filing on its current coal inventory
18		situation, as further described in my testimony below. The OUCC further
19		recommends the Commission approve VSE's proposed fuel cost factor as
20		recalculated and confirmed by OUCC witness Gregory T. Guerrettaz.

1 Q: Please describe the review and analysis you conducted in order to prepare 2 your testimony. 3 A: I read VSE's prefiled testimony and verified petition in this proceeding, as well as 4 relevant Commission Orders. I reviewed VSE's workpapers, VSE's responses to 5 OUCC data requests, and pertinent sections of Title 8 of the Indiana Code and Title 6 170 of the Indiana Administrative Code. I participated in meetings and conference 7 calls with VSE personnel. Due to COVID-19, the OUCC performed its field audit 8 remotely via conference call and WebEx on Monday December 14, 2020 and 9 Friday, December 18, 2020. I participated in meetings with other OUCC staff 10 members and VSE personnel in developing issues identified in this Cause. II. PURCHASED POWER OVER THE BENCHMARK 11 **O**: Did VSE purchase any power that exceeded the purchased power benchmark approved by the Commission in Cause No. 43414?

12 Yes. VSE provided workpapers that show it incurred \$41,079.95 of purchased 13 A: 14 power costs that exceeded the benchmark during the three-month period June 2020 15 through August 2020. 16 Q: Does the OUCC agree with VSE's calculation of purchased power over the 17 benchmark? 18 Yes. According to the OUCC's calculations, all of VSE's purchased power that A: 19 exceeded the benchmark is eligible for recovery. Thus, VSE should be allowed to 20 recover \$41,079.95 of purchased power that exceeded the benchmark.

## III. CONTESTABLE RSG

- O: Did VSE incur contestable RSG charges for the months of June 2020, July 2020, and August 2020?
- 3 A: Yes. VSE incurred \$21,244.38 in contestable RSG charges for the three-month
- 4 period, which are recovered through VSE's MISO Cost and Revenue Adjustment
- 5 ("MCRA") mechanism.

### IV. ANCILLARY SERVICES MARKET ("ASM")

- 6 Q: Is VSE continuing to follow the ASM ratemaking treatment authorized by the Commission?
- 8 A: Yes. VSE's current ratemaking treatment for the ASM charge types follows the
- 9 treatment authorized by the Commission in its Cause No. 43426 Phase II Order,
- 10 dated June 30, 2009.

#### V. BILL ANALYSIS

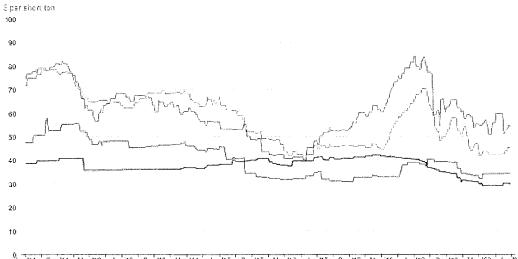
- Have you calculated the bill impact on a typical residential customer's bill using 500, 1,000, 1,500, and 2,000 kWhs at the proposed rate and compared that to the same typical customer's bill using the currently approved rate?
- 14 A: Yes. I did, as shown in the following table:

15		Bill at	Bill at		
16		Proposed	Current	Dollar	% Increase
17	<b>Consumption</b>	FAC	FAC	Inc/(Dec)	/(Decrease)
18	500	\$73.64	\$74.00	(\$0.35)	(0.48%)
19	1,000	\$136.29	\$136.99	(\$0.70)	(0.51%)
20	1,500	\$198.93	\$199.99	(\$1.05)	(0.53%)
21	2,000	\$261.58	\$262.98	(\$1.41)	(0.53%)

- 22 Q: What assumptions did you make in this calculation?
- 23 A: In making this calculation, I did not include any amount for other trackers, nor did
- I include taxes. Therefore, this calculation only reflects the proposed change to the
- FAC factor and VSE's base rates.

2	Q:	in December 2020?
3	A:	Yes. See Attachment MDE-3. A typical residential customer using 1,000 kWh in
4		December 2020 will pay (excluding taxes) \$158.72 (15.87 cents per kWh). This
5		amount consists of \$146.24 in base charges that were set during VSE's last rate
6		case (Cause No. 43839), (\$9.25) in fuel adjustment clause charges, and \$21.73 in
7		non-FAC trackers (DSMA, CECA, ECA, MCRA, RCRA, & TDSIC).
		VI. STEAM GENERATION COSTS
8 9	Q:	Did you do a comparison of steam generation costs for the five large Indiana Electric Investor-Owned Utilities ("IOUs")?
10	A:	Yes. VSE's steam generation costs are comparable to the other Electric IOUs in the
11		State of Indiana (See Attachment MDE-1).
		VII. ACTUAL COST OF FUEL (MILLS/KWH) COMPARISON
12 13	Q:	Did you do a comparison of the actual monthly cost of fuel (Mills/kWh) for the five large Electric IOUs?
14	A:	Yes. VSE's actual monthly cost of fuel (mills/kWh) is comparable to the other
15		Electric IOUs in the State of Indiana (See Attachment MDE-2).
		VIII. <u>COAL PRICE REVIEW</u>
16 17	Q:	Has the OUCC been reviewing weekly historical coal prices on an MMBtu basis and dollar basis?
18	A:	Yes. The OUCC monitors weekly historical coal prices as published by the U.S.
19		Energy Information Administration ("EIA") on SNL Energy. The two EIA graphs
20		below depict the historical price of coal on a MMBtu basis and a dollar basis.

#### Historic coal prices by region, 2011 - current data



0 Jan'11 Sep'11 May'12 Jan'13 Sep'13 May'14 Jan'15 Sep'15 May'18 Jan'17 Sep'17 May'18 Jan'19 Sep'19 May'20 Jan'21 May 11 Jan'12 Sep'12 May'19 Jan'14 Sep'14 May'15 Jan'18 Sep'16 May'17 Jan'18 Sep'18 May'19 Jan'23 Sep'20

— Central Appalachia — Northern Appalachia — Illinois Basin — Powder river Basin — Uinta Basin



#### Historic coal prices by region, 2011 - current data

\$ per mobbu



Jan'11 Sep'11 May'12 Jan'13 Sep'13 May 14 Jan'15 Sep'15 May'16 Jan'17 Sep'17 May'18 Jan'18 Sep'19 May'20 Jan'21 May'11 Jan'12 Sep'12 May'13 Jan'14 Sep'14 May'15 Jan'16 Sep'16 May'17 Jan'18 Sep'18 May'19 Jan'23 Sep'23

— Central Appalachia — Northern Appalachia — Ulinois Basin — Powtier river Basin — Ulinta Basin

# IX. COAL INVENTORY

1	Q:	What is the current level of VSE's coal inventory?
2	A:	VSE's coal inventory as of December 31, 2019 was 663,7526 tons. By June 30,
3		2020, VSE's coal inventory increased to 858,262 tons and as of September 30, 2020
4		its coal inventory decreased to 837,696 tons. VSE's forecast shows its coal
5		inventories are projected to increase over the next quarter and its coal purchases are
6		slightly higher than its projected coal burn.
7 8	Q:	Have VSE's coal generating station inventory piles reached their maximum level?
9	A:	As of September 2020, VSE's coal generating station piles are below the maximum
10		level of (approximately 800,000 tons). Consequently, VSE continues to implement
11		its coal decrementation policy, as discussed further below.
12 13	Q:	Did anything come to your attention during the FAC audit that may impact VSE's coal inventory?
14	A:	Yes. VSE believes the following reasons are impacting its 2020 coal burn: 1) low
15		natural gas prices; 2) low purchase power prices; 3) weather; and 4) decreased
16		demand due to closings as a result of the Coronavirus.
17	Q:	Is VSE actively trying to manage its coal purchases and coal inventory?
18	A:	Yes. VSE indicated in discussions with the OUCC it has taken actions to address
19		its increase in coal inventory.
20	Q:	Should VSE continue to update the Commission on its coal inventory?
21	A:	Yes. VSE should continue to provide the inputs to its calculation of the coal
22		inventory. In addition, VSE should update the Commission on its 2020 and 2021
23		projected coal burn and coal purchases. Furthermore, the OUCC recommends VSE
24		update the Commission on how it proposes to address its increase in coal inventory.

# X. <u>COAL DECREMENT PRICING</u>

1	Q:	Is VSE currently utilizing coal decrement pricing?
2	A:	Yes. Coal decrement pricing involves bidding coal units into the MISO market
3		below cost so they will be more competitive, more likely to be dispatched, and
4		avoid expenses associated with off-site storage of excess coal inventory. VSE
5		began utilizing the coal price decrement on March 18, 2020.
6	Q:	What does the OUCC recommend?
7	A:	The OUCC recommends VSE file testimony, schedules, and workpapers to justify
8		any actual or anticipated need for coal decrement pricing in future FAC filings.
		XI. <u>LINE-LOSS ADJUSTMENT</u>
9 10	Q:	Did you review VSE's line-loss calculation to determine if it complied with the Commission's Cause No. 38708 FAC-91 and FAC-92 Orders?
11	A:	Yes. VSE complied with the Commission's Cause No. 38708 FAC-91 and FAC-
12		92 Orders regarding line-loss calculations.
		XII. WIND FARMS
13 14 15	Q:	Did you ask VSE personnel about Benton County Wind Farm ("BCWF") and Fowler Ridge II ("FRII") regarding negative Locational Marginal Prices ("LMPs")?
16	A:	Yes. VSE experienced negative LMPs with BCWF and FRII and is monitoring the
17		situation.
		XIII. <u>UNIT COMMITMENT STATUS</u>
18	Q:	Does the OUCC review VSE's unit commitment status during its FAC audit?
19	A:	Yes. The OUCC generally reviews VSE's unit commitment status and Mr.
20		Guerrettaz's testimony details some of the analysis done by the OUCC during its

FAC audit. In general, the OUCC's FAC audit process has focused more on the cost of fuel and the cost of purchased power.

# XIV. RECOMMENDATION

3	Q:	Wha	t does the OUCC recommend?
4	A:	The (	OUCC recommends the Commission:
5 6		1)	Approve VSE's proposed fuel cost factors as recalculated and confirmed by Mr. Guerrettaz;
7 8 9		2)	Continue to monitor and require VSE to update the Commission on the status of its fuel cost, coal inventory, and its mix of power supply sources in its next FAC filing;
10 11 12		3)	Require VSE to update the Commission regarding its coal procurement practices, coal requests for proposals, coal price reopeners, and any coal contract changes through its FACs;
13 14		4)	Require VSE to update the Commission on its current coal inventory situation and 2020 and 2021 projected coal burn and coal purchases; and
15 16		5)	Require VSE to provide the inputs to its calculation of the coal price decrement, and the reasons for any use of decrement pricing.
17	Q:	Does	this conclude your testimony?
18	A:	Yes,	it does.

## APPENDIX A - QUALIFICATIONS OF MICHAEL D. ECKERT

Q: Please describe your educational background and experience.

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A:

I graduated from Purdue University in West Lafayette, Indiana in December 1986, with a Bachelor of Science degree, majoring in Accounting. I am licensed in the State of Indiana as a Certified Public Accountant. Upon graduation, I worked as a Field Auditor with the Audit Bureau of Circulation in Schaumburg, Illinois until October 1987. In December 1987, I accepted a position as a Staff Accountant with the OUCC. In May 1995, I was promoted to Principal Accountant and in December 1997, I was promoted to Assistant Chief Accountant. As part of the OUCC's reorganization, I accepted the position of Assistant Director of its Telecommunications Division in July 1999. From January 2000 through May 2000, I was the Acting Director of the Telecommunications Division. As part of an OUCC reorganization, I accepted a position as a Senior Utility Analyst. In September 2017 I became an Assistant Director in the Electric Division. As part of my continuing education, I have attended the National Association of Regulatory Utility Commissioners ("NARUC") two-week seminar in Lansing, Michigan. I attended NARUC's Spring 1993 and 1996 seminar on system of accounts. In addition, I attended several CPA sponsored courses and the Institute of Public Utilities Annual Conference in December 1994 and December 2000.

# **AFFIRMATION**

I affirm, under the penalties for perjury, that the foregoing representations are true.

By: Michael D. Eckert

Assistant Director of the Electric Division Indiana Office of Utility Consumer Counselor

Cause No. 38708 FAC-129

Vectren South

Date: December 22, 2020

#### Vectren South Cause No. 38708 FAC - 129

#### Steam Generation Cost Comparison

Month January February	Year 2007 2007	Energy **	Power	Light	NIPSCO	South	Month	Year	Energy	Power	Light	NIPSCO	Vectren South
			\$17.170 16.302	\$13.258 13.658	\$19.628 19.596	\$20.067 20.069	January February	2014 2014		25.529 27.393	24.550 24.538	29.414 32.326	28.097 28.048
March April	2007		17.037 17.769	13.241 13.688	19.639 19.540	19.883 20,585	March April	2014 2014		23.107 26,567	23.463 24.278	31.978 29.116	27.154
May June	2007 2007		18.673 16.973	13.579 14.096	20,843	20,707 20,182	May June	2014 2014		28.489 27,603	24.487 23.021	29.296 28.575	26.666 27.346
July	2007		17.916	14,094	21.661	20.429							
August August September	2007 2007 2007		19.025 20.209	14.530 14.002	20.498	20.422 20.422 19.849	July August September	2014 2014 2014		26,952 27,390 21,997	23,416 28,445 30,773	27.969 28.231 28.230	26.762 25.763 26.197
October	2007		20.572	14.038	20.777	20.904	October	2014		25.738	32.170	27.248	26.417
November December	2007 2007		26.158 20.936	13.596 13.583	20.928 21.147	20.652 21.612	November December	2014 2014		26.728 25.605	24.532 23.527	28.011 26.574	25.478 26.039
January February	2008 2008		19.527 20.362	14.241 14.706	20.253 22.090	20.948 21.970	January February	2015 2015		27.191 26.269	23.497 24.232	25.752 25.913	27,287 26,293
March	2008		23.903	15.223	22.098	20.854	March	2015		22.549	24.195	25,525	26,750
April May	2008 2008		20.990 22.972	14.687 15.028	22.363 22.700	22.476 22.579	April May	2015 2015		22.438 25.270	23.437 23.325	24.555 25.308	26.463 25.994
July	2008		23.708	15.694 15.753	22.885 22.269	22.903 21.947	June July	2015 2015		27,006 26.312	25.561 23.672	26.773 26.544	26.904 26.387
August September	2008		26.033 26.369	16.174 16.089	22,720 22,392	21,701 21,398	August September	2015 2015		24.397 17.891	23.601 23.741	27,554 26,131	25.480 26.280
October	2008		28.047	16,990	20.222	21.922	October	2015		25.405	23,667	26.135	26.346
November December	2008 2008		26.882 25.630	16,446 16,200	21.422 22.406	21.192 21.476	November December	2015 2015		24.520 26.001	23.089 28.690	29.840 22.179	27.464 29.998
January February	2009 2009		25.582 24,000	16.107 15.711	25,922 28,132	25.786 28.839	January February	2016 2016		26,382 24,782	22.756 24.789	29.902 29.464	28.590 28.292
March	2009		20.815	15.782	26.784	29,188	March	2016		12.691	23.912	29,439	29,261
April May June	2009 2009 2009		23.918 21.705 23.730	15.672 15.793 15.295	26.647 26.314 26.048	30.698 33.507 32.740	April May June	2016 2016 2016		24.150 24.981 25.364	23.508 23.653 22.978	29.110 28,551 25,862	27.242 27.164 26.213
July	2009		22.364	15,113	26.327	32.846	July	2016		25.592	24.093	26,559	26.252
August September	2009 2009		20.489 19.544	15.247 14.968	25.707 25.708	33.152 34.242	August September	2016 2016		26.126 26.854	23,881 23,757	25,866 26,956	26.767 25.976
October November	2009 2009		22.783 22.076	15.046 14.985	25.820 26.323	31.128 33.328	October November	2016 2016		25.295 26.251	25.603 23.529	27.421 27.415	25.344 27.014
December	2009		22.543	15.117	27.094	33.067	December	2016		25.324	24.034	26.265	26.114
January February March	2010 2010 2010		21.322 20.569 22.576	15.724 17.057 18.453	27.370 26.853 25.518	31,800 32,762 32,732	January February March	2017 2017 2017		24.234 25.272 18.832	23.289 23.028 21.687	26.796 26.318 27.503	25,785 26,177 25,618
April	2010		22,109	18.843	26.032	33.361	April	2017		24.427	23.770	28.401	26.435
May June	2010 2010		22.244 22.853	19.988 20.389	25.762 27.820	34.854 32.529	May June	2017 2017		24.615 24.941	23.800 22.189	29.785 28.828	25.270 24.834
July August	2010 2010		24.191 25.663	20.687 21.080	32.402 26.834	33.720 33.480	July August	2017 2017		24.333 24.583	22.378 23.027	27.586 26.420	25.042 25.339
September			24.650	20,705	26.115	34.401	September	2017		24.531	23.494	25.583	26,558
October November	2010 2010		22.395 22.491	21.082 21.118	26.942 26.585	34.857 35.410	October November	2017 2017		20.555 24.661	24.385 23.090	24,418 27,061	26.092 26.360
December	2010 2011		22.659	20,555	28.795 27.896	35.591 35.043	December	2017		23.847 23.180	23.840 22.415	25.733 26.382	26.961 26.764
February March	2011 2011		22.068 24.766	21.425 21.651	28.394 29.036	35.582 36.068	February March	2018 2018		25.057 20.209	22.815 22.083	28.280 26.959	26.907 26.656
April	2011		23.263	22.169	29.308	37.562	April	2018		24.048	21.120	27.127	25.571
May June	2011 2011		23.302 23.935	21.442 22.420	28.825 29,311	35.813 35.859	May June	2018 2018		23.933 25.669	22.590 21.705	24.337 24.064	26.095 26,096
July August	2011 2011		24.189 23.782	22.527 23.009	29.875 29.334	36.551 35.493	July Augnst	2018 2018		25.526 24.755	21.817 22.268	25.030 27.141	25,669 25,227
September October	2011		23.088	22,088 22,163	27.931 27.925	36.721	September October	2018		26.052	21.867	26,613	25,425
November December	2011 2011 2011		23.311 21.902	22.263 22.376	26.560 26.644	37.020 38.509 38.877	November December	2018 2018 2018		18.367 24.338 25.841	21.395 23.050 21.380	26.252 25.631 24.654	25.825 25.805 26,225
January	2012		21.278	21,584	26.283	27.727	January	2019		27.252	21.678	26.527	26,319
February March	2012 2012		21.571 26.117	22.496 21.941	24.679 24.520	26.060 25.741	February March	2019 2019		28.353 22.088	21.415 22.505	27,631 25,570	26.192 24.653
April May	2012 2012		21.401 21.419	23.745 23.965	24.526 25.157	26.097 26.037	April May	2019 2019		26 536 27.450	21.771 22,668	24.720 24.365	24.620 24.981
June	2012		22.167	22.958	26.526	25.572	June	2019		28.017	21.700	24.427	25.731
July August September	2012 2012 2012		22.455 22.751 21.266	25.210 24.524 23.399	27.584 27.429 26.974	25.854 26.735 28.336	July August September	2019 2019 2019		25.638 26.093 26.601	20.550 20.107 20.371	24.218 23.645 23,086	24.456 24.936 24.475
October	2012		21.222	23.124	26.595	28.630	October	2019		26.979	19.891	24,856	25.012
November December	2012 2012		22.161 22.868	22.904 22.894	25.797 25.730	28.008 29.143	November December	2019 2019		27.029 27.624	20.701 19.249	24.098 23.921	24.902 25.989
January February	2013 2013		24.306 25.587	23.140 22.91 I	28.319 27.123	29.340 28.796	January February	2020 2020		39.156 27.154	20.278 19.399	24.143 25.026	24.714 25.625
March	2013		25.487	22,800	27.074	28.431	March	2020		15.799	18.525	25,307	26.131
April May	2013 2013		24.394 26.229	23.318 22.910	28.563 28.938	29.049 28.567	April May	2020 2020		25.067 27.314	(0.211) 37.614	26,145 30,549	27.705 26.225
June July	2013		26.294 25.817	24.314	28.394 28.072	28.089 28.035	June July	2020			19.931 19.821	27.363 24.607	25.008 24.803
August September	2013		25.693 23.863	24.479 23.218	27.054 26.685	28.219 28.022	August September	2020 2020			. /	23.200 23.573	25.166
October November	2013 2013		26.216 25.848	23.472 23.232	26.844 27.822	27.719 28.231							
December	2013		26,081	24.007	27.499	28.142							

 $<sup>\</sup>ensuremath{^{***}}$  Information was obtained from the prefiled applications of the identified companies.

	FAC #	2 ¥	돌돌홍	333	885	10 10 <u>80</u>	<u> 3 3 8</u>	88 ≘	225	555	222	888	3 5 5	115 115 116	116	111	2 2 2	222	ក្នុងក្ន	555	<u> </u>	883	គ្គគ្ន	21 22 23 22 24 25	888	555	<u> </u>	<u> </u>	
	Vectren South 31.372	34.157	29,794 27,875 27,178	26.398 26.957 28.087	28.095 31.155 29.112	29.391 30.336	30,921 28,615 28,305	27,887 26,355 27,100	29.740 30,239 29,123	29.836 30.488	29.950 28.771 28.265	26.712 29.685 30.003	27,882 31,710 38,482	28.530 35.215 36.258	36.792 31.200 27.976	26.568 27.277 28.353	29.896 30.349 30.329	28.025 29.160 29.980	30.170 27.684	27.415 27.448 27.542	29.999 29.551 28.964	29.326 30.169 28.501	28.693 28.448 27.533	25.998 26.539	28.829 28.896	26.646 26.672 26.041	26.045	25.437	
	FAC 8	5 E	5 5 5	201 201 201	106 106 106	167 107 108	108 108 108	S 50 50	919	EEE	222	888	# # # #	2 S S	116 116	555	118 118	6 6 6	8 8 8	555	888	222	222	<u> </u>	8 2 2	355	2 2 2	95 95 95 95	
	34.595	37,834	33.398 35.651 33.714	29.863 32.375 30.805	32.872 31.478 28.582	27,708 28,799 27,126	36.642 30.907 29.840	30,308 29,217 27,402	29.50 29.50 107.22	28.084 27.173 28.645	29,993 27,682 29,012	29.037 30.723 26.647	29,466 25,671 31,266	25,559 25,259	27,979 40,776 38,370	30 394 27,890 30,863	26.716 28.242 27.849	28.357 24.417 26.439	28.143 33.338 27.222	25 397 30.370 30.604	36.741 29.687 28.404	29-419 36-500 27,621	25.467 28.110 26.717	26,392	21,676 21,676 25,033	24.481 23.630 21.374	21.644 24.053 26.901	21,977 16,091	
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	Indianapoli a Power & Light 38.669	33,548	34.215 32.705 30.676	30.751 28.445 30.773	32,170 33,567 30,310	35.110 35.110 35.21	31.806 32.544 32.135	29.603 30.582 32.514	33.759 33.194 33.83u	31.011 31.384 31.872	31.826	33.373 32.393 33.792	36.193 33,237 34,630	33,734 33,638 33,489	35,914 34,165 31,957	30,707 30,919 34,909	35,980 34,357 34,259	40.410 31.217 32.695	32,296 31,038 30,336	31,372 31,372 31,948	32,315 36,504 31,266	31,347 28,457 31,421	94100 28 508 28 508	26.573 20.722 28.646	25.00 50.00	25.755 27.088 26.905	25.25 25.55 26.005	13.967	
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December 2020 Residential Customer Bill using 1,000 kWh

Line					
No.	Description:	kWh	Rate	\$	% of Bill
1	Customer Charge			\$11.00	6.93%
2	Energy Charge	1,000	\$0.091600	91.60	57.71%
3	Fuel Charge	1,000	\$0.038890	38.89	24.50%
4	Variable Production Charge	1,000	\$0.004750	4.75	2.99%
5	Fuel Adjustment Clause	1,000	(\$0.009249)	(9.25)	-5.83%
6	Demand Side Management Adjustment	1,000	\$0.008224	8.22	5.18%
7	Clean Energy Cost Adjustment	1,000	\$0.000615	0.62	0.39%
8	Envrionmental Cost Adjustment	1,000	\$0.006441	6.44	4.06%
9	MISO Cost and Revenue Adjustment	1,000	\$0.004041	4.04	2.55%
10	Reliability Cost and Revenue Adjustment	1,000	\$0.000352	0.35	0.22%
	Transmission, Distribution, and Storage				
11	System Improvement Charge	1,000	\$0.002057	2.06	1.30%
12	Total Billing Amount (Excluding Taxes)			158.72	100.00%
13	Base Charge (Line 1, 2,3 and 4)			\$146.24	92.14%
14	Non-FAC Trackers (Lines 6, 7, 8, 9, 10, & 11)			21.73	13.69%
15	FAC (Line 5)			(9.25)	-5.83%
16	Total			\$158.72	100.00%

Note: Per online tarrifs as of December 21, 2020, https://www.vectren.com/information/rates

# **CERTIFICATE OF SERVICE**

This is to certify that a copy of the foregoing *Indiana Office of Utility Consumer Counselor Public's Exhibit No. 2 Testimony of OUCC Witness Michael D. Eckert* has been served upon the following counsel of record in the captioned proceeding by electronic service on December 22, 2020.

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Lorraine Hitz-Bradley

Deputy Consumer Counselor

#### INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR

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