

# Exhibit No. 200P

**Exhibit No.:** \_\_\_\_\_  
**Issue(s):** Cost and Quality of Service/  
Stranded Assets/Customer Savings Plan/AMI/  
Low-Income Programs/Late Fees/  
Data Privacy and Green Button  
**Witness/Type of Exhibit:** Marke/Direct  
**Sponsoring Party:** Public Counsel  
**Case No.:** ER-2021-0312

**DIRECT TESTIMONY**

**OF**

**GEOFF MARKE**

Submitted on Behalf of the Office of the Public Counsel

**THE EMPIRE DISTRICT ELECTRIC COMPANY  
D/B/A LIBERTY**

FILE NO. ER-2021-0312

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**Denotes Highly Confidential Information  
that has been redacted**

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October 29, 2021

**PUBLIC**



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**DIRECT TESTIMONY**  
**OF**  
**GEOFF MARKE**  
**EMPIRE DISTRICT ELECTRIC COMPANY**  
**CASE NO. ER-2021-0312**

1 **I. INTRODUCTION**

2 **Q. What is your name, title and business address?**

3 A. Geoff Marke, PhD, Chief Economist, Office of the Public Counsel (“OPC” or “Public  
4 Counsel”), P.O. Box 2230, Jefferson City, Missouri 65102.

5 **Q. What are your qualifications and experience?**

6 A. I have been in my present position with OPC since 2014 where I am responsible for economic  
7 analysis and policy research in electric, gas, and water utility operations.

8 **Q. Have you testified previously before the Missouri Public Service Commission?**

9 A. Yes. A listing of the Commission cases in which I have previously filed testimony and/or  
10 comments is in Schedule GM-1.

11 **Q. What is the purpose of your direct testimony?**

12 A. I give a contextual breakdown of Empire’s cost and quality of service from a consumer’s  
13 perspective. That perspective is highlighted by the fact that Empire scored 142 out of 143 in  
14 the J.D. Power 2020 Electric Utility Residential Customer Satisfaction Study.<sup>1</sup>

15 Empire performed worse in customer satisfaction than the following utilities who garnered  
16 national notoriety in 2020:

- 17 • PG&E – Who was charged with manslaughter for up to four deaths for starting the  
18 Zogg Fire in Northern California that burned 50,000+ acres of land and 204 buildings;<sup>2</sup>

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<sup>1</sup> J.D. Power. (2020) Electric Utilities’ Good Deeds—and Communication about Them—Pay Off During Pandemic, J.D. Power Finds. <https://www.jdpower.com/business/press-releases/2020-electric-utility-residential-customer-satisfaction-study>

<sup>2</sup> Zogg Fire. (2020) Wikipedia. [https://en.wikipedia.org/wiki/Zogg\\_Fire](https://en.wikipedia.org/wiki/Zogg_Fire)

- 1 • FirstEnergy– Who confessed to federal corruption and racketeering charges tied to  
2 passage of Ohio House Bill 6 to prop up a nuclear power plant;<sup>3</sup>
- 3 • Commonwealth Edison – Who was ordered to pay \$200 million in fines to resolve a  
4 criminal investigation into a years-long utility bribery scheme with lawmakers of the  
5 Illinois General Assembly;<sup>4</sup>
- 6 • Arizona Public Service Company – Arizona's largest electric company who ended up  
7 paying \$24 million in fines for not explaining its rates properly, erroneously directing  
8 thousands of customers away from its cheapest plans, and disclosing some customers'  
9 bills publically without their consent on its website.<sup>5</sup>
- 10 • Dominion - Who raised rates in the middle of the COVID-19 pandemic following the  
11 failed \$9 billion V.C. Summer nuclear fallout that South Carolina residents will be  
12 paying for generations.<sup>6</sup>

13 The sole utility with a lower customer satisfaction score out of the entire United States  
14 (including all investor-owned utilities and select large cooperatives), Central Maine Power,  
15 required a last minute veto from the Governor of Maine to override an approved bill from the  
16 Main General Assembly to prevent that investor-owned utility from being taken over as a  
17 consumer-owned utility due to its high cost and poor quality service.<sup>7</sup>

18 Empire only scored better than the utility where lawmakers in the state in which it operates  
19 voted to force it to be sold to its customers.

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<sup>3</sup> John, J. (2020) FirstEnergy Ousts CEO Amid \$61M Bribery Investigation Scandal. *GTM*

<https://www.greentechmedia.com/articles/read/firstenergy-ousts-ceo-amid-61m-bribery-investigation-scandal>

<sup>4</sup> US. Department of Justice (2020) Commonwealth Edison Agrees to Pay \$200 Million to Resolve Federal Criminal Investigation Into Bribery Scheme. The United States Attorney's Office Northern District of Illinois

<https://www.justice.gov/usao-ndil/pr/commonwealth-edison-agrees-pay-200-million-resolve-federal-criminal-investigation>

<sup>5</sup> Randazzo, R. (2020) APS will give \$25 to customers who were on the wrong rate plan, plus reimbursements. *The Republic* <https://www.azcentral.com/story/money/business/energy/2019/12/12/arizona-public-service-co-give-25-customers-misled-plans/4384877002/>

<sup>6</sup> Nukegate Scandal. *Wikipedia*. [https://en.wikipedia.org/wiki/Nukegate\\_scandal](https://en.wikipedia.org/wiki/Nukegate_scandal)

<sup>7</sup> Miller, K. (2021) Mills vetoes bill calling for forced buyout of CMP and Versant Power. *Press Herald* <https://www.pressherald.com/2021/07/13/mills-to-detail-decision-on-consumer-owned-utility-bill/>

1 Keep in mind these scores reflect 2020 and do not include all that occurred in 2021, including  
2 the loss of power and \$218 million in fuel related costs Empire wants to pass on completely  
3 (with carrying costs) to customers as a result of Storm Uri. It also does not include any of its  
4 AMI or the \$2 billion in planned PISA capital investments (over the next four years), the more  
5 than \$600 million in ratepayer-backed merchant generation, and the hundreds of millions of  
6 dollars in undepreciated balance and return on for its self-imposed stranded Asbury power  
7 plant.<sup>8</sup> Empire achieved the second worst score in the country *before* it even requested to put  
8 any of these aforementioned financial burdens on its approximately 150,000 captive Missouri  
9 ratepayers and now it asks that it be entitled to a 10.0 return on equity for its service.

10 After I expand on Empire's shortcomings in the cost and quality of its service I spend the rest  
11 of my testimony offering specific revenue and policy recommendations. Those  
12 recommendations include the following areas:

- 13 • Stranded Asset: Asbury Power Plant;
- 14 • The Customer Savings Plan: Ratepayer-Backed Merchant Generation;
- 15 • Advanced Metering Infrastructure;
- 16 • Low-Income Programs;
- 17 • Late Fee Adjustments; and
- 18 • Data Disclosure and Privacy Policy.

19 **Q. Summarily, what are your recommendations?**

20 A. Regarding its overall cost and quality of service, Empire and Algonquin Power & Utilities  
21 Corp. ("APUC"), should focus on reducing Empire's costs and improving its quality of service,  
22 and being reasonable corporate stewards to its Missouri service territory as opposed to merely  
23 increasing its rate base and cost of service. Its failure to approach a reasonable level of service  
24 quality, its high cost of service, and its blatant financial shift of risk to its captive ratepayers  
25 has led me to make the following specific recommendations:

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<sup>8</sup> See GM-2 for a copy of the Memorandum filed in Case No: EO-2019-0046 outlining OPC's concerns as it relates to Liberty's planned capital investments and the projected impact on its captive customers and consequently the Southwest Missouri economy which was filed on April 6, 2021 shortly after the Company filed for PISA treatment.

- 1           • Empire should not continue to receive “a return on” its investment in Asbury after  
2           Empire retired Asbury on December 12, 2019;
- 3           • Empire should not receive “a return of” the remaining balance of its 2015 air quality  
4           control system (“AQCS”) investments of \$124 million in Asbury that extended the  
5           useful life of the plant to 2035;
- 6           • The Commission should modify the terms of the Customer Savings Plan associated  
7           with the ratepayer-backed merchant generation wind investments to recognize the  
8           distortion in risk/reward between shareholders and ratepayers as recommended in the  
9           direct testimony of Lena M. Mantle;
- 10          • Empire should not receive “a return on” its investment in Advanced Metering  
11          Infrastructure (“AMI”) hardware and software unless it demonstrates realized benefits  
12          to Empire’s customers (beyond the ability to more easily disconnect a customer) that  
13          includes the execution of a coherent and actionable plan that synchronizes AMI  
14          hardware, software and customer education of Time-of-Use (“TOU”) rates for  
15          customers when these new rates in this case go into effect;
- 16          • If Empire continues to fail to support reasonable social responsibility considerations  
17          related to its cost of service as it pertains to its many struggling customers the  
18          Commission should make an explicit 5 basis point downward adjustment to the  
19          Company’s Return on Equity (“ROE”) in recognition of Empire’s failure to meet its  
20          espoused commitment to the local economy during the Company’s acquisition and its  
21          inadequate response to managing COVID-19 customer arrearages;
- 22          • Empire should adjust its late fees to match the short term debt recommendations made  
23          by OPC witness David Murray, which is 0.25% annually to align with the actual cost  
24          of service; and
- 25          • Empire should adopt the Green Button platform for customers seeking energy usage  
26          interval data for one or more accounts through one data file, update its privacy policy  
27          on its webpage and begin meeting with Staff and OPC periodically to discuss the results  
28          of periodic privacy impact assessments (“PIA’s”).



1 **Q. What are the OPC's other witnesses' recommendations in this case?**

2 A. In addition to my aforementioned recommendations the other OPC's witnesses'  
3 recommendations are as follows:

4 OPC's Mr. John Riley recommends \$23.6 million reduction in rate base for the ARO and  
5 \$762,685 revenue reduction in the amortization associated with that ARO. Moreover, he  
6 recommends a \$4.2 million reduction to rate base for test revenues, a \$21.3 million reduction  
7 in cash working capital and the removal of \$159,140,741 in rate base disallowance costs  
8 associated with the Asbury Power Plant. The \$208.2 million in rate base reduction results in  
9 an approximately \$16,239,600 after tax revenue requirement adjustment.

10 OPC's Mr. John Robinett provides a historical review of major additions that have occurred at  
11 Asbury, he addresses timing of events in the previous rate case and provides the possible  
12 options for the Commission to decide on how the undepreciated value of Asbury at time of  
13 book retirement is/is not to be recovered and over what time periods it should be recovered.

14 OPC's Mr. David Murray recommends a return on common equity of 9.0% applied to a  
15 common equity ratio of approximately 47.5%. As Mr. Murray explains in his testimony, he  
16 used the same approach that he used in Empire's 2019 rate case to derive his recommended  
17 common equity ratio. That approach captures the amount of leverage APUC considers  
18 reasonable for its regulated utility business segment, a segment which includes Empire.

19 OPC's Ms. Lena Mantle provides testimony on the impact on Empire's resource adequacy  
20 from the retirement of the Asbury plant, recommends clarification and modification of the  
21 market price protection mechanism, and recommends modifications to Empire's fuel  
22 adjustment clause.

23 This case will include an update where new information will be substituted for the test year  
24 data used to determine OPC's revenue requirement. OPC will not consider any revenue  
25 requirement changes that cannot be verified by identification of the cause of the change and  
26 related amount. If these elements cannot be determined, then OPC will oppose the revenue  
27 requirement change.

1 **II. COST AND QUALITY OF SERVICE**

2 **COVID-19 Recovery and Response**

3 **Q. What are impacts COVID-19 has had on Missourians?**

4 A. Consider what has occurred over just the past year. At the end of October 2020, we had  
5 registered 169,311 positive cases and 2,734 deaths. Since then, Missouri added 695,326 new  
6 cases and 9,938 new deaths. Of the new cases added in the last year, somewhere between 10%  
7 (70,000) to 35% (246,000) of those people became (or will become) “long haulers.”<sup>9</sup> That is,  
8 they had symptoms that did not fade after days or weeks. For many, it continued months later  
9 or continues to exist today. Thus, this data obscures the tens or hundreds of thousands of  
10 Missourians living with long-term, chronic health issues resulting from their COVID-19  
11 illness. Table 1 provides a one-year comparison of total reported Missouri COVID-19 cases  
12 and deaths in late October 2020 and late October 2021 as reported by *The New York Times*.  
13 Figure 1 provides a graphical illustration of the daily positive cases in Missouri since the spring  
14 of 2020.

15 Table 1: *The New York Times* Missouri COVID-19 October 2020 and 2021 Data<sup>10</sup>

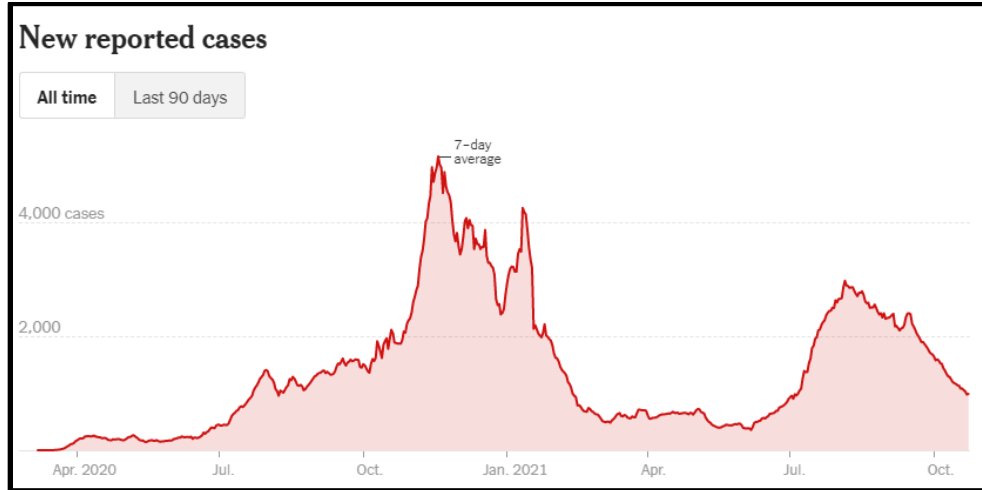
Missouri	Oct. 23, 2020	Oct. 23, 2021
Positive Cases	169,311	864,637 <sup>11</sup>
Deaths	2,734	12,672

<sup>9</sup> Rubin, R. (2020) As Their Numbers Grow, COVID-19 “Long Haulers” Stump Experts. *Journal of American Medical Association*. <https://jamanetwork.com/journals/jama/fullarticle/2771111>; Hirschtick, Jana (2021) Severe COVID-19 may be linked to long-haul symptoms. University of Michigan. <https://news.umich.edu/severe-covid-19-may-be-linked-to-long-haul-symptoms/>

<sup>10</sup>Tracking Coronavirus in Missouri: Latest Map and Case Count (2021) *The New York Times*. <https://www.nytimes.com/interactive/2021/us/missouri-covid-cases.html>

<sup>11</sup> 864,637 represents approximately 14.1% of all Missourians based on the latest census data.

1 Figure 1: *The New York Times* Missouri COVID-19 New Reported Cases<sup>12</sup>



2  
3 As of October 23, 2021, it is estimated that approximately 58% of Missouri citizens 12 and up  
4 are fully vaccinated with roughly 80% of Missourian’s 65 and older fully vaccinated.<sup>13</sup> 2020  
5 also marked the first time in at least a century in which more people in Missouri died than were  
6 born (4,555 more deaths than births).<sup>14</sup>

7 The economic recovery has been uneven in Missouri to date. This is illustrated in Figures 2  
8 and 3, which shows how overall employment and consumer spending by income brackets have  
9 changed from pre-COVID-19 levels to present.

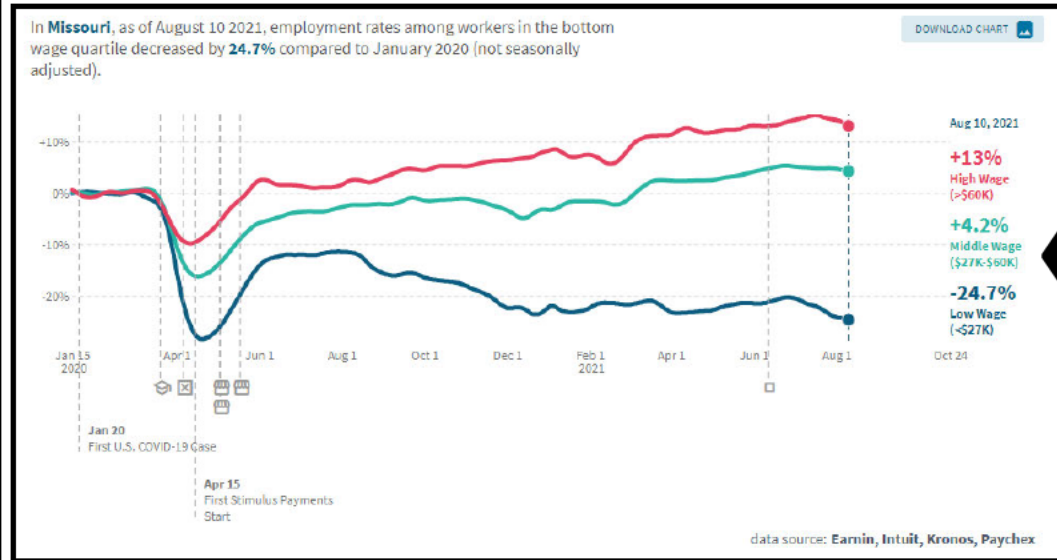
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<sup>12</sup> Ibid.

<sup>13</sup> Ibid.

<sup>14</sup> Suntrup, Jack (2022) For the first time in at least a century, more people died in Missouri than were born, new figures show. *St. Louis Post Dispatch*. [https://www.stltoday.com/news/local/state-and-regional/for-the-first-time-in-at-least-a-century-more-people-died-in-missouri-than/article\\_63a3f432-7179-5df6-821b-365965adb1cd.html](https://www.stltoday.com/news/local/state-and-regional/for-the-first-time-in-at-least-a-century-more-people-died-in-missouri-than/article_63a3f432-7179-5df6-821b-365965adb1cd.html)

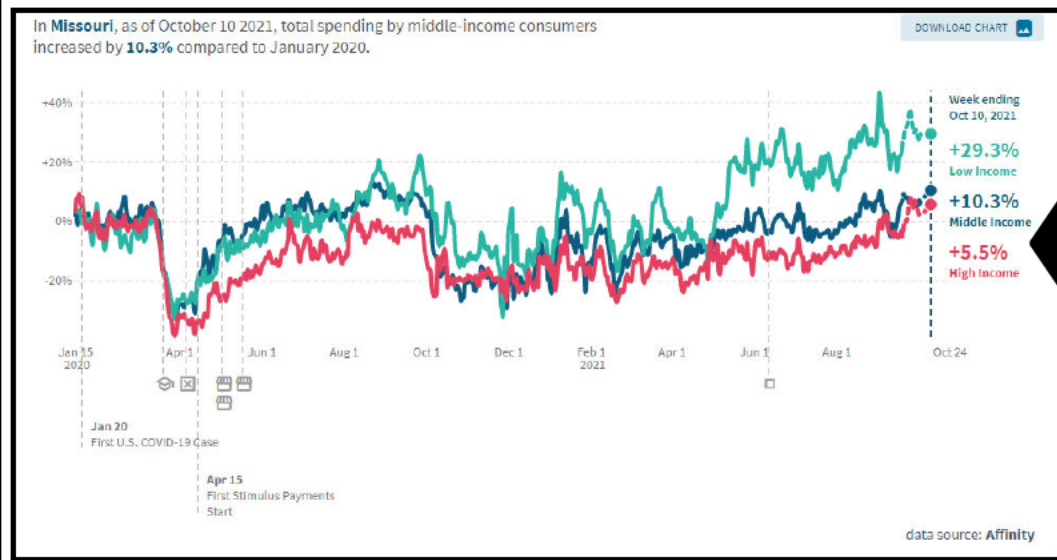
1 **Figure 2: Percent Change in Employment as of August 10, 2021<sup>15</sup>**



October 24, 2021

- +13% High Wage (>\$60K)
- +4.2% Middle Wage (\$27K - \$60K)
- 24.7% Low Wage (<\$27K)

2  
 3 **Figure 3: Missouri Consumer Spending by Income as of October 10, 2021<sup>16</sup>**



October 10, 2021

- +29.3% Low Income (>\$60K)
- +10.3% Mid Income (\$27K - \$60K)
- + 5.5% High Income (<\$27K)

4

<sup>15</sup> Opportunity Insights: Economic Tracker (2021) Missouri <https://www.tracktherecovery.org/>

<sup>16</sup> Ibid.

1 **Q. What do these tables show?**

2 A. That low-income consumers (<\$27K per year) have seen employment rates decrease 24.7%  
3 since January of 2020 and consumer spending increase 29.3%. That is, there are fewer low-  
4 income earners working and they are spending considerably more money than they did a  
5 year ago. Clearly, there are various conclusions that can be drawn from this data; but I  
6 merely would like to point out that this pattern cannot be sustained.

7 **Q. How do Empire's customers breakdown across relevant socio-economic**  
8 **demographics?**

9 A. Table 2 provides an updated listing by county of key economic data from the most recent  
10 American Community Survey

11 Table 2: Select 2020 American Community Survey Economic Data of relevant service territory<sup>17</sup>

<b>Area</b>	<b>Mean Family Income</b>	<b>Median Family Income</b>	<b>Below Poverty Rate % Below \$26,200 family of four Missouri</b>	<b>Child Poverty Rate % Under 18</b>
<b>Empire MO Counties</b>				
Barry	\$72.1	\$53.9	21.1%	32.5%
Barton	\$66.0	\$44.1	20.3%	27.0%
Cedar	\$63.8	\$46.5	15.8%	19.9%
Christian	\$74.0	\$60.6	10.0%	11.9%
Dade	\$56.0	\$40.4	21.5%	39.3%
Dallas	\$62.3	\$43.5	13.4%	14.8%
Greene	\$80.2	\$61.5	16.4%	17.6%
Hickory	\$43.9	\$34.1	17.3%	18.3%
Jasper	\$73.2	\$57.9	17.1%	25.1%
Lawrence	\$58.9	\$44.7	16.8%	27.7%
McDonald	\$58.5	\$47.4	18.6%	29.3%
Newton	\$86.5	\$62.3	13.5%	18.3%
Polk	\$68.7	\$52.5	16.5%	20.1%
St. Clair	\$60.4	\$51.6	17.1%	24.6%
Stone	\$76.7	\$56.9	12.9%	19.0%
Taney	\$67.2	\$53.9	14.7%	19.9

<sup>17</sup> Missouri Census Data Center (2020) ACS Profiles (5-year period). <https://mcdc.missouri.edu/>

Other				
US	\$103.8	\$77.2	13.7%	18.7%
Missouri	\$91.1	\$70.3	13.4%	18.5%

1 **Q. What is important to note from your Table 2 data?**

2 A. Empire’s customers have lower overall mean and median household incomes, and higher  
3 poverty rates relative to the United States and Missouri averages.<sup>18</sup>

4 Although insufficient time prevented me from performing the analysis, based on the  
5 aforementioned data, it would not be out of the realm of reasonableness to surmise that  
6 Empire’s southwest Missouri residential customers have one of, or possible the largest, energy  
7 burden of residential customers in the United States.<sup>19</sup>

8 **Q. Are you aware of anything else that bears on the ability of Empire’s already economically  
9 challenged customers to afford a large rate increase?**

10 A. Yes. Inflation has surged in 2021 and is at a 30-year high. According to the U.S. Bureau of  
11 Economic Analysis:

12 The price index tracking consumer spending — the PCE price index — was up 4.3%  
13 over the 12 months ending in August. That was a faster pace than July’s 4.2%. Inflation  
14 continued to run at the fastest pace since January 1991.<sup>20</sup>

15 Some analyst are concerned that the U.S. may be approaching a period of stagflation.<sup>21</sup> That  
16 is, a combination of inflation, slow economic growth and high unemployment. Regardless, an  
17 overall decrease in the purchasing power of the dollar coupled with Empire’s rate increase will  
18 impact vulnerable households most of all and underscores the importance of my  
19 recommendations regarding low and fixed-income customers. The Commission should also be  
20 cognizant that the U.S. Energy Information Administration reported on October 13, 2021 that

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Christian County median household income being the sole exception when compared to the Missouri average.

<sup>19</sup> A household’s energy burden—the percentage of household income spent on energy bills—provides an indication of energy affordability.

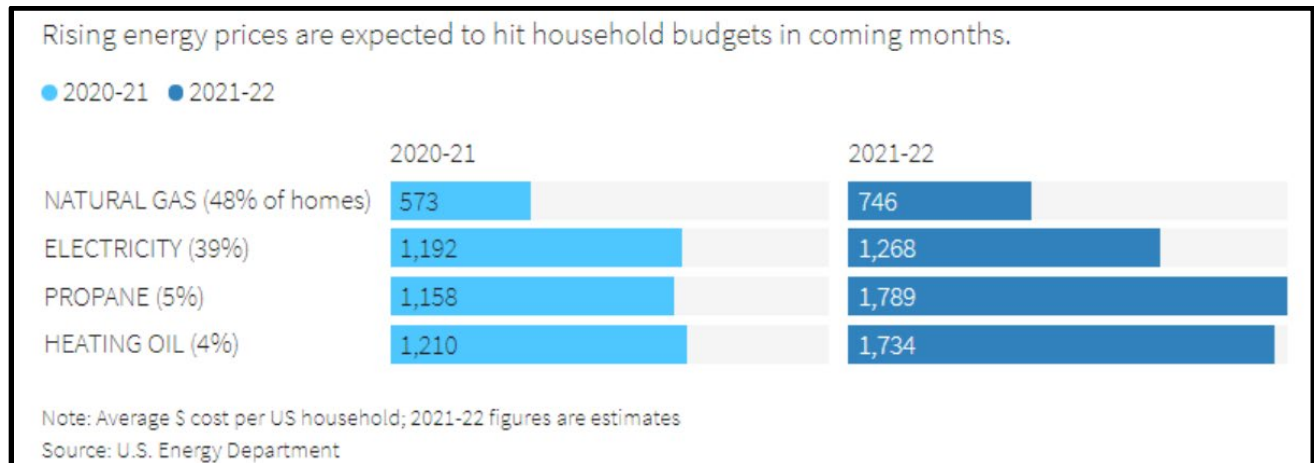
<sup>20</sup> Bureau of Economic Analysis (2021) News Release: Personal Income and Outlays, August 2021.

<https://www.bea.gov/news/2021/personal-income-and-outlays-august-2021>

<sup>21</sup> Detrixhe, John (2021) Why economists are talking about stagflation. *Quartz* <https://qz.com/2068772/why-economists-are-talking-about-stagflation/>

1 it expects households to see their heating bills jump as much as 54% compared to last winter  
2 as already tight global supply conditions will be pressed by colder overall forecasts.<sup>22</sup> A  
3 breakdown of expected rising energy prices in the coming months can be found in Figure 4.

4 Figure 4: Home heating bills to rise this winter (2021-2022)<sup>23</sup>



5  
6 Not all have suffered from the global pandemic and recession. Empire’s parent, Algonquin  
7 Power & Utilities Corp. (“APUC”), saw its stock valuation drop to a low of \$11.25 in March  
8 of 2020, but has since rebounded + 34.6% despite the global recession to \$15.14 as of  
9 October 22, 2021 as shown in Figure 5. Algonquin also achieved a 67% increase in its most  
10 recent Q2 adjusted EBITDA (earnings before interest, taxes, depreciation, and amortization)  
11 compared to the same quarter in 2020.<sup>24</sup> Finally, APUC just announced an acquisition of  
12 \$2.85 billion for American Electric Power’s Kentucky Power and AEP Kentucky Transco.<sup>25</sup>

<sup>22</sup> Disavino, Scott (2021) U.S. home heating bills expected to surge this winter EIA says. *Reuters*.  
<https://www.reuters.com/world/us/us-home-heating-bills-seen-higher-this-winter-eia-says-2021-10-13/>

<sup>23</sup> Ibid.

<sup>24</sup> Algonquin Power & Utilities Corp (AQN) Q2 2021 Earnings Call Transcript (2021) *The Motley Fool*.  
<https://www.fool.com/earnings/call-transcripts/2021/08/13/algonquin-power-utilities-corp-aqn-q2-2021-earning/>

<sup>25</sup> Saul, J. & M. Chediak AEP will sell Kentucky operations to Algonquin to fund renewables. *Bloomberg*.  
<https://www.bloomberg.com/news/articles/2021-10-26/aep-to-sell-kentucky-operations-to-algonquin-for-2-85-billion>

1 Figure 5: Algonquin Power & Utilities Corp. 5-year market summary



2  
3 **Q. Did APUC, directly or indirectly, provide any relief to its utility customers during the**  
4 **COVID-19 pandemic?**

5 A. The only relief I am aware of is that on April 8, 2020, Liberty Utilities announced a \$500,000  
6 donation to support communities within its service territories during the COVID-19 pandemic.  
7 The key distinction being that the half-million in donations was allocated across all of its  
8 subsidiary utilities. There are fourteen locations listed on Liberty Utilities home page: Arizona,  
9 Arkansas, California, Georgia, Illinois, Iowa, Kansas, Massachusetts, Missouri, New  
10 Brunswick, New Hampshire, New York, Oklahoma, and Texas. Whether or not the half-  
11 million also extended to Bermuda and/or other affiliates outside of the continental United  
12 States is not known. Needless to say, there was very little effort made, by money or otherwise,  
13 to support its Missouri customers, let alone any matching bill arrearage amounts that I am  
14 aware of. This runs in direct contrast to the efforts put forward by Ameren Missouri, Spire and  
15 Missouri American Water. Despite APUC continuing to pay out quarterly dividends during a



1 global recession and rebounding above pre-pandemic levels in valuation no additional funds  
2 were allocated after the one-time infusion of cash across 14+ utilities on April 8, 2020.

3 According to Staff's most recent (October 22, 2021) Case No. AW-2020-0356 COVID-19  
4 monthly report, Empire has more customers with past-due accounts and more customers who  
5 have received a final disconnection notices at the end of September 2021 than the same month  
6 last year. There are also 22% fewer customers participating in payment plans in the month  
7 ending September 2021 than in September 2020. Empire's average mean residential arrearage  
8 amount for the month ending August 2021 is \*\*\*\_\_\_\_\_\*\*\* which is an improvement from  
9 what it was a year ago at \*\*\*\_\_\_\_\_\*\*\*. However, this still represents the second highest  
10 residential arrearage amount among regulated utilities in the state (second only to Evergy  
11 Metro).

## 12 **Jacksonville Electric Authority**

13 **Q. Did you file testimony about APUC's assertions put forward in its failed attempt to**  
14 **acquire the Jacksonville Electric Authority in Empire's last rate case?**

15 A. Yes. However, Empire refused to address my allegations, because, in part, they claimed that  
16 the Asbury power plant the Company stranded was outside of the Company's test year. As  
17 such, I am including this information yet again for the Commission's consideration and,  
18 hopefully, for a Company response.

19 **Q. What is the Jacksonville Electric Authority?**

20 A. JEA is the municipally run electric, water and sewer utility of Jacksonville, Florida, that has  
21 466,000 electric customers, and 359,000 water customers. In October of 2019, the City of  
22 Jacksonville, Florida solicited bids to begin a five-month process to negotiate its sale.  
23 According to the *Florida Times-Union*:

24 For entities that want to purchase JEA lock, stock and barrel, the threshold price to  
25 even get consideration would be in the range of \$6.8 billion to \$7.3 billion, according  
26 to information provided to interested buyers. . . .

1 At a minimum, a deal would have to net at least \$3 billion in cash for City Hall after  
2 covering some other big-dollar requirements.

3 A purchaser of the entire utility would have to pay enough for JEA to wipe out all  
4 of its billions of dollars in debt along with some other financial liabilities and  
5 transaction costs from a deal.

6 The sales price also would have to cover \$400 million in one-time customer rebates  
7 if a deal ultimately goes through, plus \$132 million for enhanced pension benefits  
8 for JEA employees and \$165 million in employee retention bonuses.<sup>26</sup>

9 **Q. What did APUC offer to acquire JEA?**

10 A. APUC responded to the City of Jacksonville, Florida’s public invitation to negotiate with the  
11 City regarding the sale of all or parts of JEA, but, since the City rejected pursuing negotiations  
12 with APUC, to my knowledge APUC has taken no further action to pursue acquiring any or  
13 all of JEA. However, I assume that APUC was prepared to bid at least the stated “threshold  
14 price for consideration” above or otherwise it would not have responded to the City of  
15 Jacksonville’s public solicitation.

16 **Q. How does what APUC stated in its response to the City of Jacksonville regarding APUC  
17 acquiring all or part of JEA compare to the terms upon which Liberty acquired Empire  
18 in 2017?**

19 A. Ontario-based APUC, through its subsidiary Liberty Utilities Company, agreed to pay \$2.4  
20 billion for Empire and its affiliates, including the assumption of approximately \$900 million  
21 of debt. Both shareholders and customers fared differently in the acquisition. Notably,  
22 Empire’s shareholders received \$34 per share of common stock in cash upon closing of the  
23 merger. This represented a 50 percent premium to the presale announcement closing stock  
24 price of \$22.65 on December 10, 2015.<sup>27</sup>

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<sup>26</sup> Bauerlein, D. (2019) JEA for sale: bid price at least \$6.8 billion. *Florida Times-Union*.  
<https://www.jacksonville.com/news/20191005/jea-for-sale-bid-price-at-least-68-billion>.

<sup>27</sup> Beecher, B. (2016) “Letter from the President” The Empire District Electric Company 2015 Annual Report  
[http://www.annualreports.com/HostedData/AnnualReports/PDF/NYSE\\_EDE\\_2015.pdf](http://www.annualreports.com/HostedData/AnnualReports/PDF/NYSE_EDE_2015.pdf).

1 In contrast, citing Missouri as a “no net detriment state,” Liberty Utilities did not include any  
2 explicit customer benefits (like, the opening floor requirement of \$400 million in one-time  
3 rebates that Jacksonville seeks<sup>28</sup>) in its acquisition. Instead, Liberty premised Commission  
4 approval of its application on the basis that the “status quo” would be maintained, that is:  
5 management would remain as is, customer service metrics would not degrade, affiliate  
6 transaction rules would be complied with, and scale economies would be found.

7 **Q. Has Empire adhered to those 2017 “status quo” conditions?**

8 A. I do not believe so, and I will explain why.

9 **Q. What does APUC’s attempt to buy JEA have to do with this Empire rate case?**

10 A. On October 4, 2019, APUC responded to the City of Jacksonville’s public solicitation of  
11 interest to acquire all or part of JEA with its letter titled, “Response to the city of Jacksonville’s  
12 invitation to negotiate in respect of strategic alternative for the Jacksonville Electric  
13 Authority.”<sup>29</sup> The contents of APUC’s proposal as well as those of sixteen other respondents  
14 were made public on JEA’s website.<sup>30</sup>

15 Within its response, APUC made certain representations about its regulated utilities, including  
16 specific references to those in Missouri. I would like to take this opportunity to provide a fact-  
17 check to those representations for the Commission’s consideration.<sup>31</sup>

18 **Q. What representations did APUC make regarding customer commitment?**

19 A. Algonquin stated:

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<sup>28</sup> OPC had filed testimony recommending a bill credit of \$100 per customer resulting in as much as \$21 million total dollars as a result of the acquisition. However, Liberty rejected this proposal and OPC ultimately withdrew this request.

<sup>29</sup> See Sch. GM-3 and/or [https://www.jea.com/microsite/promise/pdf/blue-Algonquin\\_Power\\_Utilities\\_Corp-01-Respondent\\_Reply.pdf](https://www.jea.com/microsite/promise/pdf/blue-Algonquin_Power_Utilities_Corp-01-Respondent_Reply.pdf).

<sup>30</sup> JEA (2019) What’s Next for JEA: Strategic Alternatives ITS Responses.  
<https://www.jea.com/microsite/promise/promise.html>.

<sup>31</sup> It is important to note that Missouri electric customers represent approximately 60% of Liberty Utilities regulated electric customers (or roughly 166,000 out of 266,000 customers) which also includes customers in its Calpeco Electric System (California), retail choice Granite State (New Hampshire) operations, and adjacent vertically-integrated Empire states (Kansas, Arkansas and Oklahoma). Therefore, the representations made within the JEA document need to be tempered with the fact that my conclusions omit the non-Missouri customers.

1           The Respondent measures and benchmarks its customer interaction performance with  
2           all the industry best practices and protocols and procedures including tracking  
3           customer calls, measuring call wait times, tracking disconnected or dropped calls,  
4           measuring average interaction times and tracking resolution success metrics. The  
5           Respondent tracks its overall performance in relation to its customer interactions with  
6           a number of third party evaluations including but not limited to bi-annual JD Power  
7           assessments. **Respondent's respective utility operations consistently rank in the**  
8           **top quartile of its peer group in these third party assessments.**<sup>32</sup> (Emphasis added).

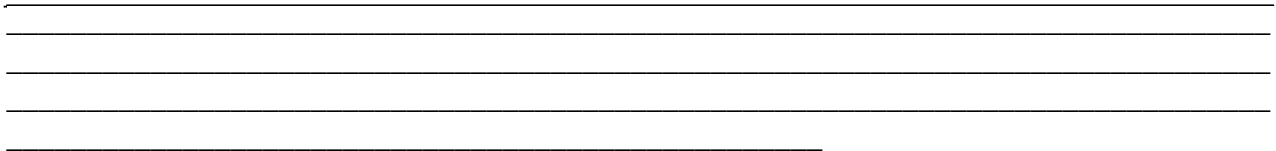
9           **Q. Did APUC accurately portray Empire's electric operations at the time of the failed**  
10           **acquisition?**

11           A. No. According to the most relevant J.D. Power scores Empire provided to the OPC through  
12           discovery at that time, in 2018 JD Power & Associates ranked Empire \*\*\*\_\_ \*\*\* out of 138  
13           electric utilities resulting in a \*\*\*\_\_\_\_\_ \*\*\* quartile placement. The results for Empire's  
14           electric operations are reprinted here in Figure 6.

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<sup>32</sup> Ibid.

1 Figure 6: J.D. Power 2018 Electric Utility Residential Customer Satisfaction Study Results: Empire  
2 District Electric Overall Results\*\*\*



3  
4 \*\*\* Across the board Empire’s third-party metrics are all in the \*\*\* \_\_\_\_\_ \*\*\* A  
5 further breakdown in perceived customer value can be seen in each category relative to the  
6 national average in Table 3. Additionally, for cross-reference, I have included the high, low,  
7 average and Missouri-specific JD Power overall scores for electric utilities in Table 4, as well  
8 as the national average.

1 Table 3: 2018 JD Power Scores of Empire compared to National Average\*\*\*

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2 \*\*\*

3 Table 4: High, low, average and Missouri-specific utility scores within the 2018 JD Power results\*\*\*

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4 \*\*\* As seen in Table 3, Empire has scores in certain categories that are significantly \*\*\* \_\_\_\_ \*\*\*  
5 than its scores in other categories. Specifically, the areas of \*\*\* \_\_\_\_\_  
6 \_\_\_\_\_ \*\*\* are categories that are more than \*\*\* \_\_\_\_\_ \*\*\* than the  
7 national averages. Table 4 illustrates a similar picture as there are more than a \*\*\*\_\_ \*\*\*  
8 points separating Empire from the highest scoring utility, but only \*\*\*\_ \*\*\* points separating  
9 it from the lowest scoring utility in the nation in terms of overall customer satisfaction.

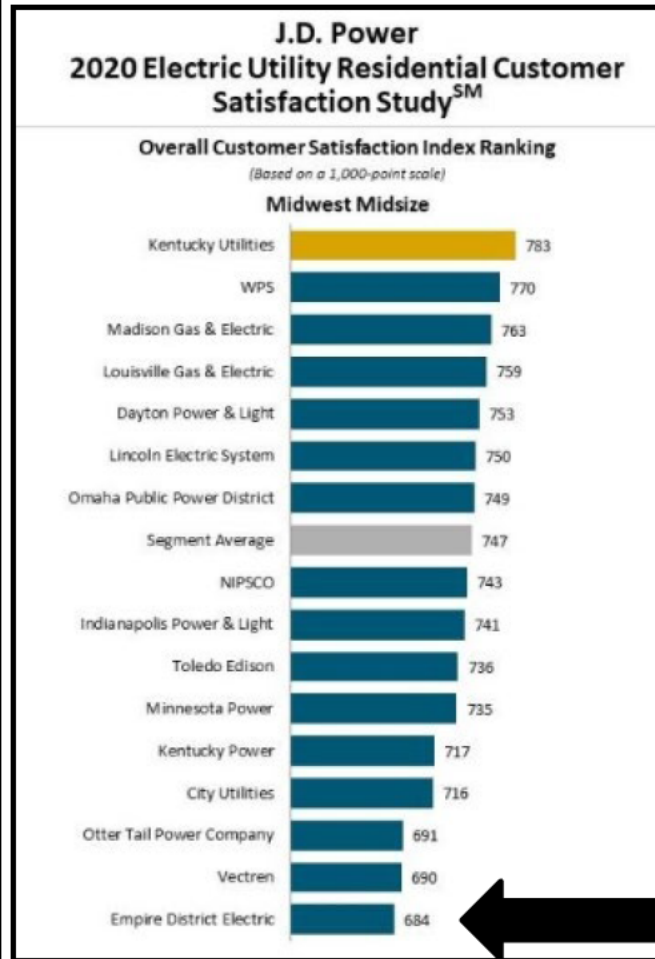
1 **Q. Are JD Power Scores the definitive statement on customer service?**

2 A. No. While they do provide a meaningful measure of a utility's performance relative to its peers,  
3 all else being equal, I would caution the Commission with reading too much into JD Power  
4 scores, as timing of rate cases, weather events, and other confounding variables can have an  
5 impact in any given year. That being said, the differences in the Empire-specific JD Power  
6 results relative to APUC's representations are vast and disconcerting.

7 **Q. Has Empire improved its J.D. Power scores since then?**

8 A. No. They have gotten worse. In fact, Empire scored last in the Overall Customer Satisfaction  
9 Index Ranking for Midwest Midsized utilities as shown in Figure 7:

1 Figure 7: J.D. Power 2020 Electric Utility Residential Customer Satisfaction<sup>33</sup>



Worst scoring utility in the Midwest Midsize category and finished 142 out of 143 utilities across the U.S. in customer satisfaction

2  
3 **Q. Did APUC make any representations about positive call center metrics for Empire?**

4 **A.** No, not explicitly. APUC merely stated:

5 The Respondent measures and benchmarks its customer interaction performance with  
6 all the industry best practices protocols and procedures including tracking customer  
7 calls, measuring call wait times, tracking disconnected or dropped calls, measuring  
8 average interaction times and tracking resolution success metrics.<sup>34</sup>

<sup>33</sup> J.D. Power. (2020) Electric Utilities' Good Deeds—and Communication about Them—Pay Off During Pandemic, J.D. Power Finds. <https://www.jdpower.com/business/press-releases/2020-electric-utility-residential-customer-satisfaction-study>

<sup>34</sup> Ibid.



1 **Q. Empirically, what are Empire’s call center metrics pre- and post- APUC’s 2017**  
2 **acquisition of it?**

3 A. Table 5 provides a breakdown of average select call center metrics from 2014 through Sept. of  
4 2021. This provides roughly a three-year snapshot of Empire’s call center metrics.<sup>35</sup>

5 Table 5: Select Empire District call center metrics pre- and post-2017 acquisition<sup>36</sup>

	Avg. Talk Time (hr min.sec)	Avg. Agent Call Wait Time (hr min.sec)	Avg. Not Ready Time (hr.min.sec)	% Abandoned	Avg. Speed of Answer (min.sec)	Calls Answered 30 Sec or less
<b>Pre</b>						
2014	0:02:58	0:01:59	0:28:05	4%	0:25	83%
2015	0:02:58	0:01:48	0:29:04	3%	0:22	83%
2016	0:03:19	0:01:44	0:36:23	3%	0:24	80%
<b>Post</b>						
2017	0:03:32	0:01:53	0:37:45	4%	0:30	78%
2018	0:03:19	0:01:18	1:00:31	5%	0:56	64%
2019	0:02:58	0:01:38	1:01:35	4%	0:43	69%
2020	0:03:38	NA	0:47:13	2%	0:21	84%
2021	0:03:54	NA	0:55:33	2%	0:29	80%

6 At first blush, it appears as though the metrics are a bit of a mixed bag. I defer to the Missouri  
7 Public Service Commission Staff on whether or not these call center metrics represent a  
8 statistically significant decline in Empire’s quality of service. I welcome any insight and/or  
9 recommendations they have on this matter, preferably in rebuttal testimony.

10 **Q. What representations has APUC made regarding how it treats its customers and the**  
11 **community it serves through its planned investments?**

12 A. In its JEA bid Algonquin stated:

13 History is strewn with examples of first movers and early technology adopters that in  
14 the fullness of hindsight turn out to be cost transient undertakings: AMR vs. AMI,  
15 CFB’s [sic] vs LED technology, investing in IGCC, new nuclear, coal gasification, etc.  
16 There is certainly a place for technology pioneers and first movers, but this is a model

<sup>35</sup> The acquisition was completed in January of 2017.

<sup>36</sup> See also Sch. GM-4, Empire reply to OPC Data Request 2082 and OPC Data Request 2008

1 that is rarely applicable to the utility industry that has an obligation to serve its  
2 customers reliably, to make prudent investment decisions and provide its services at an  
3 affordable cost. **Jumping in with some new bet on some costly nascent “disruptive”**  
4 **concept** (like cloud electric trading technology) **is not what companies who care**  
5 **about their customers can practically do. Utilities cannot be failure pioneers when**  
6 **working with other people’s money and when impacting their community’s**  
7 **everyday quality of life.**<sup>37</sup> (Emphasis added).

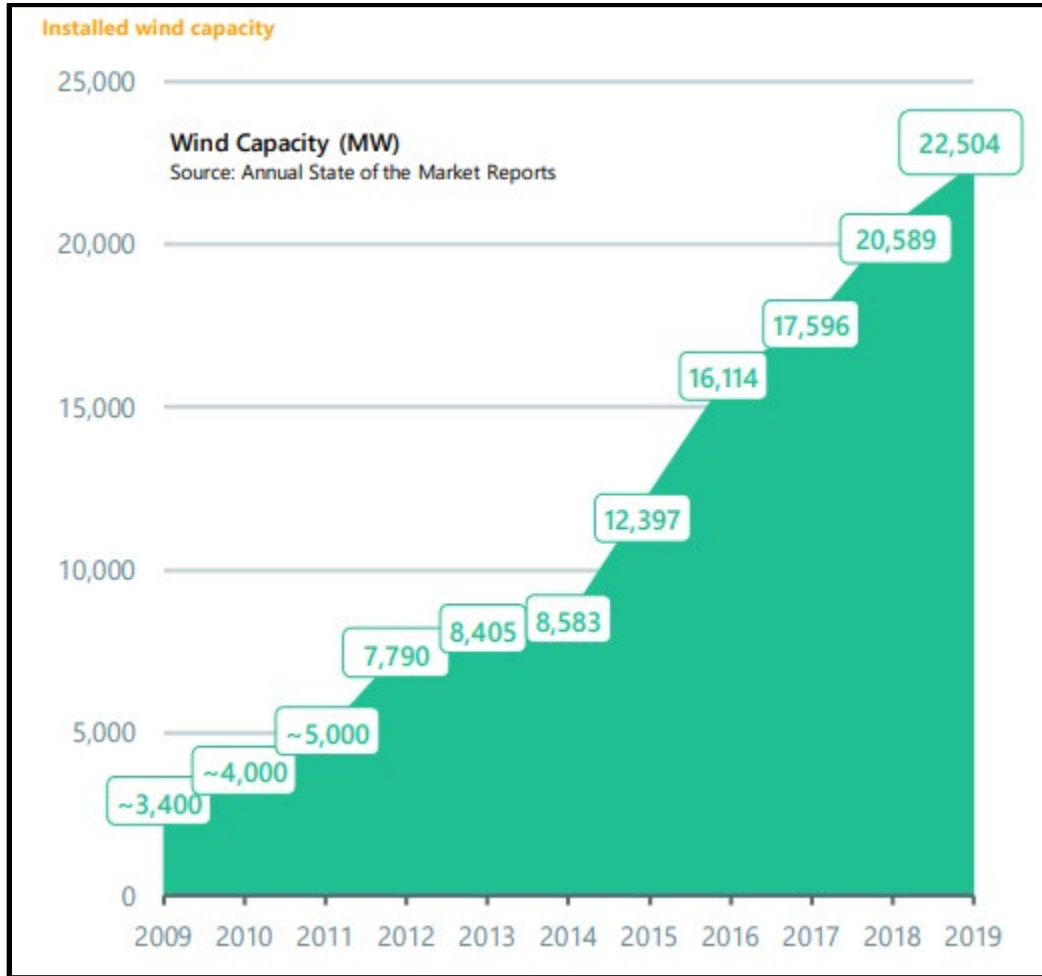
8 **Q. Does Algonquin accurately portray your experience with Empire as a subsidiary of**  
9 **APUC and Liberty Utilities?**

10 A. No. In multiple cases now, I have been a vocal critic of Empire’s decision to depart from the  
11 traditional cost-of-service model to place a bet, “with other people’s money,” on a captive-  
12 retail customer-backed, merchant generation scheme by acquiring and adding an additional  
13 600 MW or more of wind generation to its rate base. The lack of objective, empirical analysis,  
14 the needless 40% increase to Empire’s rate base, and the shifting of risk to be borne by  
15 ratepayers is an enormous concern, and is a substantial cost moving forward.  
16 APUC/Liberty/Empire’s actions to date look exactly like they have made Empire into a utility  
17 that has placed itself in a position to be a “failure pioneer” with other people’s money. If  
18 Empire’s “Customer Savings Plan” does not materialize as planned, then Empire’s retail  
19 customers (not insulated shareholders or tax equity partners) will experience a negative impact  
20 on their everyday quality of life. I believe such an outcome is likely for a variety of reasons,  
21 including (but not limited to) Empire’s refusal to update its models with accurate data, and its  
22 failure to account for the diminishing marginal utility of excessive wind generation coming  
23 onto the SPP market. Figure 7 includes the year-over-year accredited wind capacity in the SPP  
24 market, which are already out-of-synch with what their models predicted.

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<sup>37</sup> Ibid.

1 Figure 7: Year-over-year SPP wind capacity<sup>38</sup>



2  
3 In considering how abundant supply suppresses demand, remember that Empire’s 600 MW  
4 of wind farms are not being built to meet the electricity needs of Empire’s customers, but rather  
5 as a means for Empire (and, ultimately, APUC) to build out rate base under the pretense that  
6 profits from excess sales in the SPP energy market will offset the costs. For Empire’s retail  
7 customers, a successful outcome is solely dependent on those 2021 (and beyond) SPP sales

<sup>38</sup> SPP (2021) An Introduction to Southwest Power Pool. <https://www.spp.org/documents/31587/spp101%20-%20an%20introduction%20to%20spp%20-%20all%20slides%20print.pdf>

1 profits to be as large as possible. For shareholders, their profits increase exponentially the  
2 moment Empire's rate base is enlarged with the excess generation.

3 **Q. Is it likely that these ratepayer-backed merchant generation wind investments will**  
4 **generate revenues in excess of costs to prevent customers from being harmed?**

5 A. Consider what SPP's 2021 market monitor had to say on new generation:

6 **Given the relatively low average SPP market prices, the MMU does not expect**  
7 **SPP market prices to support new entry of generation investments.** While the SPP  
8 market on its own offers low incentives for new generation, some reasons for new  
9 generation investments include expansion of corporate renewable goals, SPP market  
10 protocol requirements, federal and/or state incentives, state-regulated investments,  
11 emerging technologies, and emission reduction plans. . . . In 2020, SPP market  
12 revenues were also insufficient to support the cost of new entry of renewable  
13 generation, wind and solar. . . . As the market is currently designed, it does not  
14 incentivize new entry for energy capacity.<sup>39</sup>

15 Empire's ratepayer-backed merchant generation wind farms are entering into a market that  
16 does not support new generation investments and is competing with even more intermittent  
17 generation coming online. This underscores my concern about the likelihood of the Customer  
18 Savings Plan producing enough savings to approach the cost overruns, still uncertain costs  
19 related to SPP interconnection and risks associated with curtailments from excess fatalities of  
20 protected and endangered species from these capital investments.

21 **Q. Have you raised these concerns before?**

22 A. Yes. Every chance that I could. I stated the obvious problem in building out intermittent  
23 merchant generation when everyone else in the SPP was doing the same thing and the SPP was  
24 publically stating it would downgrade its wind valuation due to the surplus and non-  
25 dispatchable nature.

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<sup>39</sup> SPP (2021) State of the Market 2020.

<https://www.spp.org/documents/65161/2020%20annual%20state%20of%20the%20market%20report.pdf> p. 172-177.

1 **Q. Did APUC make any representations about stranded costs in conjunction with its**  
2 **response to Jacksonville regarding its interest in acquiring JEA?**

3 A. Yes, in passing, Algonquin stated:

4 Load balancing and operating safety, effective cyber-security, least cost energy supply  
5 security, dynamic billing/metering, being socially responsible and helping out low  
6 income/special need customers, providing backstop safety-net supply, **and dealing**  
7 **with stranded costs are some of these issues that need holistic answers/approaches**  
8 **that are fair and responsible.** The “big thinkers” outside of the industry often  
9 underestimate these challenges and their importance in being a utility that actually  
10 benefits it’s [sic] community.<sup>40</sup> (Emphasis added).

11 I have seen no evidence that APUC/Liberty/Empire intends to deal with the self-imposed  
12 stranding of the Asbury power plant (fifteen-years before the end of its planned life) in a  
13 manner that is fair and responsible to its customers. Instead, APUC/Liberty/Empire continue  
14 to want to earn a return on and of an investment that is no longer used or useful. Again, this  
15 action favors investors and penalizes Empire’s captive customers.

16 **Q. Did APUC make any other representations regarding its operations in Missouri in**  
17 **conjunction with its response to Jacksonville regarding its interest in acquiring JEA?**

18 A. Yes. Algonquin referenced its merchant wind generation investment bet and the premature  
19 retirement of Asbury as follows:

20 One example of rhetoric made action is the Respondents Midwest “greening the  
21 fleet” initiative. This was one of the first such projects in the country that was not a  
22 simple “demo” project using tax dollars or rate surcharges to subsidize cost-  
23 inefficient technology applications. **It was the real substitution of a perfectly**  
24 **usable mid-life 600mW[sic] coal plant and replacing that with 400mW [sic] of**  
25 **renewable (wind) generation.** While such a substitution may on the surface seem  
26 commonplace, to do so at a cost that resulted in a net savings to the customer was

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<sup>40</sup> See Sch. GM-3.

1 highly innovative. The full levelized cost of the power generated from the new wind  
2 turbine fleet was proven to be lower than the incremental variable operating costs of  
3 the mid-life coal fired generation plant.<sup>41</sup> (Emphasis added).

4 **Q. Is APUC’s characterization of its “greening the fleet” initiative at Empire accurate?**

5 A. No. First, there is no “substitution” here. If Empire had offered to substitute its “return on and  
6 of” its 198 MW Asbury Coal Plant in exchange for “a return on and of” 600 MW of wind there  
7 *might* be an equitable substitution. However, Empire wants to continue to reap profits on its  
8 stranded investment in Asbury, regardless of whether this “perfectly usable mid-life coal plant”  
9 is “used and useful.”

10 Next, I am not sure what “demo projects” Algonquin is referring to “that utilized tax dollars or  
11 rate surcharges to subsidize cost inefficient technology applications.” The Customer Savings  
12 Plan will utilize tax credits (in part) and wants to utilize the FAC surcharge. I do agree that  
13 Asbury was a perfectly usable mid-life coal plant; however, Asbury’s SPP accredited capacity  
14 was about 198 MW, not 400mW. Moreover, the “Customer Savings Plan” is for 600 MW of  
15 wind across three different locations not 400mW as APUC stated.

16 I also take issue with the assertion that such a substitution of generating resources is  
17 commonplace (even “on the surface”). Nothing about using captive ratepayer funding for a  
18 merchant generation business as designed in the “Greening the Fleet / Customer Savings Plan”  
19 is commonplace. Moreover, to date, costs of the wind projects are still unknown and uncertain.  
20 That uncertainty includes costs related to SPP interconnection and future uncertainty  
21 surrounding forced curtailment due to conservation concerns.

22 Finally, I take issue with Algonquin’s characterization that the “full levelized cost of power”  
23 (LCOE) of the new merchant generation is lower than the continued costs of the “perfectly  
24 usable, mid-life, coal-fired generation plant.”

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<sup>41</sup> Ibid.

1 The *cost* of the energy, does not necessarily say anything about the *value* of that same energy  
2 over the lifetime of a generating plant. Value depends not solely on the cost of generating  
3 the energy being sold in a market; it also depends on the price for which that energy can be  
4 sold in that market. When prices vary continuously over time in increments as small as five  
5 minutes, and by location, it is not appropriate to look solely at the LCOE as the north star  
6 of supply-side generation economic feasibility metrics—at least not in the merchant  
7 generation business where revenue margins are the only thing that matters. Most price value  
8 derives from generating electricity when demand for electricity is highest, *i.e.*, when people  
9 most need electricity. That is, primarily during hot summer days when wind output is low  
10 or nonexistent.

11 **Q. What representations did APUC make regarding managing and controlling its activities**  
12 **with regard to rate shock?**

13 A. In its response to Jacksonville regarding its interest in acquiring JEA Algonquin stated:

14 **Respondent is always cognizant [sic] of stakeholder sensitivity to utility rates and**  
15 **tariffs and particularly to the rate shock that may be occasioned by unique events.**

16 The Respondent manages such concerns across its 40 individual utility operations. **A**  
17 **utility owner has many tools at its disposal for the responsible management of**  
18 **customer tariffs including the timing and lumpiness of capital expenditures,**  
19 **maintaining or enhancing operating cost efficiency, effective use of debt and**  
20 **equity, etc.** Such situations are always easier when a utility owner is free to manage  
21 all the various elements impacting rates and to engage in long term advance planning.<sup>42</sup>

22 (Emphasis added)

23 **Q. Does APUC accurately characterize Empire’s actions since APUC acquired it in 2017?**

24 A. No, it does not accurately characterize my experience with Empire post acquisition. A utility  
25 that “is always cognizant of stakeholder sensitivity to utility rates” would not have to be  
26 ordered by its Commission to adjust its rates to reflect the federal corporate tax reductions from

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<sup>42</sup> Ibid.

1 the Tax Cuts and Jobs Act of 2017. No “a utility owner that is free to manage the various  
2 elements impacting its rates” for the benefit of its retail customers would not delay the rate  
3 reduction savings of that Act out over two separate contested cases and 240 days after the Act  
4 was enacted. It would be sure to flow those savings back to its customers immediately. Instead,  
5 Empire has, rather successfully, delayed flowing the benefits of the Tax Cuts and Jobs Act of  
6 2017 to its Missouri customers, the lion’s share of its electric customer base. APUC controlled  
7 Empire was the only utility in Missouri to fight to keep those customer savings.

8 A utility that “is always cognizant of stakeholder sensitivity to utility rates” wouldn’t attempt  
9 to recover all of the Storm Uri costs and carrying costs from ratepayers when its FAC allows  
10 95% recovery.

11 I also take issue with APUC’s representations that it always displays responsible management  
12 by minimizing the timing of the lumpiness of capital expenditures. The entirety of the eleven-  
13 month ordeal (10-5-2017 to 8-22-2018) of Case No: EO-2018-0092 (*In the Matter of the*  
14 *Application of the Empire District Electric Company for Approval of Its Customer Savings*  
15 *Plan*) was needlessly unnecessary and, in my opinion, imprudent.

16 **Q. What do you mean?**

17 A. As Commissioner Hall stated during the evidentiary hearing in Case No. EO-2018-0092  
18 (where Empire sought Commission pre-approval of a plan to retire Asbury and build 800 MW  
19 of new wind generation):

20 Commissioner Hall: And that actually segues right into my next question. Why isn’t  
21 this a CCN proceeding? Why wouldn’t that have been the most simple way to address  
22 this, just file for a CCN, and then we could have made a decisional prudence decision  
23 and you guys could be off and running? Why—this seems unduly complicated.<sup>43</sup>

24 Commissioner Hall was correct. APUC/Liberty/Empire through Empire’s management have  
25 made Empire’s merchant generation investments unduly complicated by mismanaging  
26 Empire’s capital investment timing. Empire should have filed for a CCN in October of 2017.

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<sup>43</sup> EO-2018-0092, Transcript-Volume 3 (Evidentiary Hearing 5-9-18) p. 61.



1           Instead, it wasted a year securing “regulatory guidance”—the same guidance it could have  
2           obtained by seeking a certificate of convenience and necessity for its planned wind projects.  
3           As a result, all parties had to go through essentially the same exercise a second time in 2018.  
4           The net effect was not just an additional year of regulatory resources and opportunity costs  
5           expended in a second-round of Customer Savings Plan analysis, but one less year of certainty  
6           surrounding Commission approval of an investment—wind projects—with cost-dependent  
7           strings tied to an operational completion dates that were extended.

8           **Q. Has APUC/Liberty/Empire made any representations about Empire’s electric rates?**

9           A. Not recently that I found, and not directly in the JEA response. In Empire’s last rate case I  
10           referenced APUC’s 2019 *Sustainability Report* which stated on page 27, under “Modernized  
11           and Affordable Energy,” that Liberty’s rates were on average \$3 cheaper than other utilities in  
12           Missouri. The Company’s most recent 2021 report omits any mention of rate comparisons,  
13           affordability or customer costs and only mentions the phrase “rates and pricing” once as a “key  
14           concerns raised” with no further context out of its 140-page document to investors.<sup>44</sup>

15           **Q. Is the 2019 rate comparison an accurate comparison of the cost of Empire’s electric  
16           service in Missouri to those of other Missouri utilities?**

17           A. No. In the 2019 case I showed how Empire’s residential customers pay, on average,  
18           approximately \$500 more annually and \$40 more monthly than residential customers of  
19           Eversource Metro, Eversource West, or Ameren Missouri. The delta between the utilities was driven  
20           primarily by “increased cost of service”, space-heating usage and poorly insulated homes. The  
21           combination of items led me to conclude, based on empirical SNL billing data that Empire had,  
22           on average, the fourth largest annual residential bill in the United States.<sup>45</sup>

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<sup>44</sup> Algonquin Power & Utilities Corp. 2021 ESG Report. <https://algonquinpower.com/uploads/docs/AQN-ESG-Report-2021.pdf>

<sup>45</sup> To be clear, my 2019 analysis identified only three utilities with higher annual average residential bills who each operate entirely on islands. In the ocean. Empire operates in southwest Missouri.

**Q. Do you have more up-to-date rate comparisons?**

A. Yes. Table 6 shows a breakdown of utility bundled sales for ultimate customers in 2020 per data from forms EIA-8161 schedules 4A& 4D and EIA-861S and Table 7 shows a breakdown of Edison Electric Institute’s summer average rates across investor-owned Missouri utilities by customer class.

Table 6: EIA end-of-year 2020 Utility Bundled retail sales of “comparable” Missouri utilities

Utility	Ownership	Customers	Sales (MW)	Revenues	Average Price
Barton County	Coop	6564	159,345	17,763,000	11.15
Sac Osage	Coop	11,121	151,722	19,353,200	12.6
Ozark	Coop	40,179	681,472	68,823,000	10.10
Barry	Coop	9,677	182,820	20,639,500	11.29
New-Mac	Coop	18,131	395,081	43,124,000	10.92
Southwest	Coop	42,447	579,109	42,447,000	10.86
Webster	Coop	18,615	372,528	18,615,000	8.46
White River Valley	Coop	45,252	735,483	45,252,000	12.62
Laclede	Coop	37,531	631,731	65,689,000	10.40
Se-MA-NO	Coop	6,106	112,216	9,955,800	8.87
Springfield	Muni	117,302	2,913,253	255,412,000	8.77
<b>Empire</b>	<b>IOU</b>	<b>157,395</b>	<b>3,975,534</b>	<b>453,846,200</b>	<b>11.42</b>
Evergy West	IOU	331,947	7,979,927	757,429,600	9.49
Evergy Metro	IOU	296,549	8,053,771	860,861,200	10.69
Ameren Missouri	IOU	1,235,266	30,601,887	2,674,841,000	8.74

Table 7: Edison Electric Institute Summer Rates Missouri

	Total	Residential	Commercial	Industrial
Ameren Missouri	8.44	10.02	7.50	6.11
Empire District	11.51	13.50	11.27	8.24
Evergy West	9.71	11.49	8.89	6.69
Evergy Metro	9.23	13.34	10.24	7.44

1 **Q. Did the City of Jacksonville select Algonquin as one of its final candidates to explore**  
 2 **further regarding the sale of part or all of JEA?**

3 A. No. It’s proposal was rejected.

4 **Jacksonville Electric Authority Summary**

5 **Q. What are the main points the Commission should note from this section of your**  
 6 **testimony?**

7 A. A non-exhaustive list of concerns raised by representations APUC made in its response to the  
 8 City of Jacksonville’s solicitation of interest in acquiring all or part of JEA are included in  
 9 Table 8.

10 Table 8: Summary of Section II: Jacksonville Electric Authority

APUC/JEA	OPC observations of APUC/Liberty/Empire
JEA bid to include (a minimum of) \$400 million in immediate customer benefits	Empire bid included no customer benefits—status quo.
Utility operations consistently rank in the top quartile of its peer group in third party assessments—J.D. Power	J.D. Power scores in the *** _____ _____ ***
Measures and benchmarks its customer interaction performance with all the industry best practices protocols and procedures	True and the metrics have declined.
Don’t make bets with other people’s money	Made a bet with other people’s money (shift risk) and will increase rate base by 40% (gain reward)
Cannot be failure pioneers	Placed customers at risk of being a failure pioneer by betting that excess wind generation will generate sustainable revenues to offset costs of an investment not needed
Stranded costs should be dealt with fair and responsibly	Created stranded costs where none existed, and wants to keep the profits regardless of the plant no longer being “used and useful.”
“Greening of Midwest” was a “real substitution of a perfectly usable mid-life 600mW[sic] coal	Put ratepayers in the position to have to back a merchant generation investment of 600 MW of wind

plant and replacing that with 400 mW [sic] renewable (wind) generation”	at unknown costs, which then created a stranded asset of its newly retrofitted 198 MW coal plant that it wants to continue to earn profits on.
Cognizant of stakeholder sensitivity to utility rates and tariffs	Only electric utility to refuse to flow Tax Cuts and Jobs Act of 2017 tax savings back to customers
Cognizant of stakeholder sensitivity to rate shock	See GM-2 regarding the \$2 billion in planned PISA investments across 150,000 customers in four years
Responsible management in inducing the timing and lumpiness of capital expenditures	Inappropriate filings and mismanagement of the timing of capital investments with its FAC
Missouri electric rates lower than other utilities in the state (2019 Sustainability Report)	Highest IOU rates in the State of Missouri and the fourth largest average annual residential bill in the United States (S&P Global)

1 **III. STRANDED ASSET: ASBURY POWER PLANT**

2 **Q. What is a stranded asset?**<sup>46</sup>

3 A. A “stranded asset” is a term that has different meanings depending on the context. Assets  
 4 become stranded if their expected cash flow is less than their remaining book value—in  
 5 other words, if the asset is expected to generate less revenues than it will cost from a point  
 6 in time until the end of its useful life. Regulation-based stranded assets differ from market-  
 7 based stranded assets. The latter simply compares the book value of an asset relative to some  
 8 future market value of the asset. For example, if an oil reserve has \$1 billion book value but  
 9 sliding demand due to carbon taxes or other environmental regulations reduces its market  
 10 value to \$400 million, the result is \$600 million in stranded assets. By contrast, regulation-  
 11 based assets are assets that are subject to cost-of-service or other rate-of-return regulation.  
 12 Government regulators have explicitly approved this type of asset to earn a return over a

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<sup>46</sup> Economist Robert Michaels made a compelling argument in a 1994 essay that, in “220 years of speculating on the nature of competition since Adam Smith, economists got along fine without ever developing such a concept as “stranded costs.” The idea is a new invention. No other business has had such a “right” in its arsenal to shield itself from the effects of dynamic competition. See, Michaels, R. (1994), "Unused and Useless: The Strange Economics of Stranded Investment," *The Electricity Journal*, October, pp. 12-22.

1 defined period at some point in the past if the asset is deemed “used” and “useful.”<sup>47</sup> A  
2 regulated supply-side asset is meant to provide service throughout its life to the captive  
3 customers who are paying for its use. That is, absent government-sanctioned intervention  
4 or a categorical loss in load (*i.e.*, “a death spiral”), a regulated asset should not become  
5 stranded.

6 **Q. What is an example of a government-sanctioned intervention that could strand a**  
7 **regulated asset?**

8 A Deregulation is the most obvious recent historical example. At the turn of the century, many  
9 states passed laws to deregulate their vertically integrated electric utilities and create a  
10 competitive generation market. In theory, under deregulation, electricity prices would more  
11 closely align with economic, not accounting, costs. In vertically-integrated regulated states  
12 (like Missouri) electricity prices are based on utilities’ actual expenditures, and utilities have  
13 little reason to control costs, because cost reductions ultimately are passed on to consumers.  
14 Additionally, regulators allow utilities to earn a specified rate of return on capital  
15 expenditures to “incentivize” investment in capital-intensive facilities. That is, utilities have  
16 a perverse incentive to increase a rate base. In contrast, in a competitive market, asset  
17 owners reap more benefits for lower costs and, thus, are incentivized to minimize their costs,  
18 as cost-recovery is not guaranteed.<sup>48</sup>

19 Another historical example of a stranded asset is the significant cost overruns associated  
20 with mismanaged nuclear power plants that never became “used and useful.” Whether or  
21 not these stranded investment costs were recovered from captive ratepayers varied

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<sup>47</sup> To ensure affordability and full utilization of the asset, the cost recovery generally is amortized throughout its expected “useful life.” The asset costs are allocated to all customers on a pro-rata basis, and are generally recovered on a volumetric basis. As the number of customers change, the volumetric charge is adjusted so that the utility only recovers the value of the asset (including associated potential profit).

<sup>48</sup> Deregulation or “industry restructuring” is different from the wholesale markets, which each of our electric utilities in Missouri participate in. In a wholesale market, utilities buy and sell power among themselves or from independent merchant generators at prices that reflect conditions of supply and demand.

1           depending on the circumstances and the government regulator. Some utilities had to write  
2           off their uneconomic assets, while others did not.

3           A final example scenario where an asset may be a stranded investment is where there is an  
4           aggressive government-sanctioned compliance policy that makes the asset uneconomic.  
5           Examples of such policies are renewable portfolio standards (“RPS”), carbon pricing  
6           schemes (see Regional Greenhouse Gas Initiative “RGG” states), and carbon-emission  
7           reduction standards (see California and its historical natural gas distribution investment or  
8           the now defunct U.S. Clean Power Plan “CPP”).

9           **Q. Have Missouri electric utilities been subjected to any events beyond their control that**  
10           **could strand investment?**

11          A. No. Missouri did not deregulate its generation assets from its regulated utilities. It is a  
12          vertically integrated state (distribution, transmission, and generation are owned by the same  
13          entity).

14          Moreover, Section 393.135, RSMo, is in place. It prevents the cost recovery of investment  
15          in any existing or new facility of an electric corporation before it is fully operational and  
16          used for service. This voter-driven initiative was spurred, in part, from the large capital  
17          overruns of nuclear power plants across the United States in the 1970s, including Union  
18          Electric Company’s Callaway nuclear plant.

19          Missouri does have a RPS, but a 1% retail rate impact cap tempers any excessive costs  
20          associated with this mandate, and that standard has not stranded any asset.

21          Finally, Missouri electric utilities do not experience any carbon pricing penalty and are not  
22          subject to any enforceable state-level emission reduction targets.

23          There are no events beyond its management’s control that could be said to have induced  
24          Empire to strand its investment in the Asbury power plant.

1 **Q. Then why is Asbury a stranded asset?**

2 A. Current Empire management has chosen to retire Asbury fifteen years before the end of its  
3 useful life due to actions it has elected to take. There remains a significant remaining book  
4 value that Empire has not yet recovered for its environmental capital investments in Asbury  
5 that it made before Empire's management chose to retire Asbury on its books as of March  
6 1, 2020.

7 **Q. Has the OPC raised the issue of rate impacts due to Empire retiring Asbury?**

8 A. Yes. We filed testimony in Case No. ER-2019-0374; however, the Commission did not  
9 address this stranded asset issue in that case. As such, this is OPC's first opportunity. That  
10 Empire was contemplating prematurely retiring Asbury was raised first by Empire witnesses  
11 in Case No. EO-2018-0047 as part of Empire's "Customer Savings Plan" where Empire  
12 sought regulatory guidance for building up to 800 MW of wind generation and retiring  
13 Asbury; however, the non-unanimous stipulation and agreement all parties except the City  
14 of Joplin and the OPC executed included Empire's agreement to defer deciding when it  
15 would retire Asbury.

16 The issue of Asbury's premature retirement was not part of any prefiled testimony in Case  
17 No. EA-2019-0010; however all parties, except OPC,<sup>49</sup> entered into a last-minute non-  
18 unanimous stipulation and agreement in that case which included three separate provisions  
19 related to Asbury being retired.<sup>50,51</sup> Despite that agreement, the Commission ruled in its  
20 Report and Order that:

21 In this case, the sale or retirement of Asbury is not certain. In fact, from the evidence  
22 presented, it is not known whether the removal of Asbury from Empire's generation  
23 fleet, if it occurs, will be accomplished through a sale or a closure. Thus, the effect  
24 on rates from the undepreciated plant value, the capital costs, depreciation expense,

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<sup>49</sup> The City of Joplin was not an intervening party in that case.

<sup>50</sup> Filed Friday, April 5<sup>th</sup> before the evidentiary hearing on Monday, April 8<sup>th</sup>.

<sup>51</sup> The regulatory asset contemplated in that non-unanimous stipulation and agreement included an undepreciated balance of the Asbury facility estimated at approximately \$200 million.

1 property taxes, operations and maintenance expense, fuel costs, SPP revenues and  
2 any deferred income tax effects are completely unknown. Further, there has not been  
3 sufficient evidence provided to show that this sale or retirement would be  
4 “extraordinary” under the definition as set out in the USOA. Further, because these  
5 events have not yet occurred, when they do occur, the signatories could present this  
6 to the Commission as a formal request for an accounting authority order where the  
7 facts can be reviewed with more certainty, less speculation, and under the  
8 appropriate burden of proof.

9 Empire and the other signatories to the *Non-Unanimous Stipulation and Agreement*  
10 have not shown that conditions related to possible Asbury closure or sale are  
11 reasonable or necessary. The Commission finds it would be premature to set out any  
12 conditions related to the possible sale or closure of Asbury. Additionally, the parties  
13 have not proven that this possible sale or closure will produce an extraordinary  
14 circumstance such that the Commission should take the unusual step of conditioning  
15 the grant of a certificate of convenience and necessity on this particular accounting  
16 treatment. The Commission will not impose the conditions set out in Paragraph 17  
17 of the *Non-Unanimous Stipulation and Agreement*.<sup>52</sup>

18 Empire was required to file its new triennial IRP before the Commission took evidence in  
19 its main evidentiary hearing in Empire’s Wind CCN case; however, Empire asked for and  
20 received an extension to file that IRP until the end of June, after the Commission decided  
21 Empire’s Wind CCN case. On June 28<sup>th</sup>, 2019 Empire filed its triennial IRP which included  
22 the retirement of Asbury as part of its preferred modeled plan.

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<sup>52</sup> EA-2019-0010 Report and Order p. 48.



1 **Pre-Acquisition Treatment of Asbury**

2 **Q. When was Asbury commissioned?**

3 A. The Asbury Power Plant Unit 1 was originally commissioned in 1970 with an accredited  
4 capacity of 213 MW.

5 **Q. What did Empire do in 2015 to extend its useful life?**

6 A. To comply with federal air quality regulations in order to continue to run Asbury beyond 2015,  
7 in 2015 Empire installed a state-of-the-art Air Quality Control System (“AQCS”) to remove  
8 sulfur dioxide, particulate, mercury, and other pollutants. Asbury was also retrofitted with a  
9 Selective Catalytic Reduction (“SCR”) located upstream of the AQCS and a Distributed  
10 Control System (“DCS”). The facility *also* switched to Powder River Basin (“PBR”) coal at a  
11 ratio of approximately 90% with approximately 10% local (Illinois) coal.<sup>53</sup> Asbury was also  
12 able to bend up to approximately 2% rubber tire derived fuel (“TDF”) but let its contract expire  
13 in March of 2018. These collective upgrades extended the useful life of the plant more than  
14 twenty years and made the coal unit one of the cleanest in Missouri.<sup>54</sup>

15 **Q. Was that decision prudent?**

16 A. I believe so. No party challenged the cost recovery of these investments when they went into  
17 rates in Empire’s rate case, Case No. ER-2016-0023. Figure 8 includes a snippet from The  
18 Empire District Electric Company 2015 Annual Investor Update on February 26, 2016  
19 highlighting the environmental compliance modification and recovery in rates.

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<sup>53</sup> For reference, Ameren Missouri’s Labadie and Rush Island Power Plants did not elect to invest in scrubbers but instead relied on PBR coal to meet environmental compliance standards.

<sup>54</sup> A more detailed look at the history of Asbury investments can be found in the Direct Testimony of OPC witness John Robinett in this case.

1 Figure 8: 2016 Empire Investor highlight Asbury AQCS Project <sup>55</sup>



2  
 3 **Q. Did Empire’s 2015 investments in Asbury cause its customers’ rates to increase?**

4 **A.** Yes. Ratepayers experienced a compounded increase in rates of 62.23% over a ten-year period  
 5 because of Empire’s 2015 investment in Asbury, and the additional supply-side investments at  
 6 Riverton, Plum Point, Iatan, Elk River and Meridan Way.

7 Table 9: Empire rate case history 2007-2016

Case Number	Dollar Value	Percent Increase
ER-2006-0315	\$29,300,000	9.96%
ER-2008-0093	\$22,040,395	6.70%
ER-2010-0130	\$46,800,000	13.90%
ER-2011-0004	\$18,685,000	4.70%
ER-2012-0345	\$27,500,000	6.85%
ER-2014-0351	\$17,125,000	3.88%
ER-2016-0023	\$20,400,000	4.46%
<b>Total Dollars</b>	<b>\$181,850,395</b>	
<b>Total Compounded Increase</b>		<b>62.23%</b>

8

<sup>55</sup> The Empire District Electric Company: Annual 2015 Investor Update (2016).  
<http://www.snl.com/Cache/1500083524.PDF?Y=&O=PDF&D=&fid=1500083524&T=&iid=3005475>.

1 **Algonquin Acquisition**

2 **Q. Were you involved in both Empire’s last rate case before Algonquin Power & Utilities**  
3 **Corp and the acquisition case for Algonquin Power & Utilities Corp to acquire it?**

4 A. Yes.

5 **Q. Did you object to APUC’s acquisition of Empire?**

6 A. Yes, initially. I initially recommended that the Commission reject APUC’s acquisition of  
7 Empire. My rebuttal testimony opened with the following statements:

8 As it stands, Empire ratepayers and regulators operate under the assurance of a  
9 known, stable local utility with over one-hundred years of operating experience.  
10 Approval of this acquisition would represent an increase in orders of magnitude at  
11 the level of organizational and affiliate complexity as well as a heightened risk of  
12 diluted managerial and fiduciary responsibility. There are no proposed standards  
13 from which to judge success, no cost-savings benchmarks to strive towards, and no  
14 proposed ring fence provisions to ensure captive ratepayers will not be exposed to  
15 increased harm. Instead, there are only aspirational, vague and often redundant  
16 claims of benefits generalized across four testimonies.<sup>56</sup>

17 **Q. Did you file comments explicitly stating that Empire had no need for additional capacity**  
18 **post-acquisition due to the significant supply-side investments already made?**

19 A. Yes. In my surrebuttal testimony I stated:

20 For example, approval of the merger would not change the fact Empire has just  
21 added an additional 100MW in capacity in its Riverton 12 combined cycle unit.  
22 Moreover, according to Empire’s recently filed triennial IRP, there will be no need  
23 for a MEEIA<sup>57</sup> and **no need for future capacity until 2029** as reprinted here in  
24 Table 9:

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<sup>56</sup> EM-2016-0213 Rebuttal Testimony of Geoff Marke p. 3, 12-20.

<sup>57</sup> EO-2016-0223. The Empire District Electric Company Triennial Compliance Filing. Volume 7 Resource Acquisition Strategy Selection 7-8: “Empire’s decision makers have selected Plan 5 as the Preferred Plan. Plan 5 contains no Missouri DSM portfolio and supply-side resources are not added until the latter part of the study period.”

1 Table 9: Empire’s Twenty-year Plan 5 (Preferred IRP Plan)<sup>58</sup>

Year	Common to All IRP Plans (Applies to Preferred Plan)	Plan 5 (Preferred Plan)
2016	By Mid-2016, Riverton 12 begins combined cycle operation (100 MW addition to the Empire system)	
2017		
2018		
2019		
2020		
2021		
2022		
2023	Energy Center Unit 1 assumed to retire for IRP purposes (82 MW loss)	
2024		
2025		
2026	Energy Center Unit 2 assumed to retire for IRP purposes (82 MW loss)	
2027		
2028	Meridian Way 105 MW Wind PPA expires (19 MW loss)	
2029		100 MW Combined Cycle, 100 MW Wind Resource
2030	Elk River 150 Wind PPA expires after 5-year extension (17 MW loss)	
2031		150 MW Wind Resource
2032		
2033	Riverton Units 10 and 11 assumed to retire for IRP purposes (33 MW loss)	
2034		
2035	Asbury Unit 1 assumed to retire for IRP purposes (194 MW loss)	200 MW Combined Cycle

2  
 3 Even if Empire needed to build additional capacity (which they do not), there is no  
 4 guarantee that renewable capacity would be the preferred generation, the prudent  
 5 choice, or the least cost option. **It is OPC’s position ratepayers should not have**  
 6 **to pay for any additional capacity in the near future.** This is especially true  
 7 considering ratepayers have experienced a compounded increase in rates of 62.23%  
 8 over the past ten years.<sup>59</sup> (Emphasis not in original cited testimony).

<sup>58</sup> EO-2016-0223. The Empire District Electric Company Triennial Compliance Filing. Volume 7 Resource Acquisition Strategy Selection 7-9.

<sup>59</sup> Case No. EM-2016-0213 Surrebuttal Testimony of Geoff Marke.

1 **Q. Did other OPC witnesses express concerns?**

2 A. Yes. OPC's consultants stated a variety of concerns including, but not limited to, the timing of  
3 capital investments, uncertainty-surrounding costs associated with a new Customer  
4 Information System ("CIS"), and diluted local managerial control. Liberty President, David  
5 Pasieka's surrebuttal testimony offered the following general observations regarding the  
6 OPC's rebuttal testimonies:

7 A conceptual theme that runs throughout the testimony filed by the OPC witnesses is  
8 OPC's belief that Empire will be more risky within Algonquin's corporate structure  
9 because it will no longer be a pure-play, vertically integrated electric utility, but rather  
10 will become an operating subsidiary within Algonquin's corporate structure.<sup>60</sup>

11 **Q. Did OPC sign into a stipulation and agreement with the recommendation that the  
12 Commission approve the transaction?**

13 A. Yes.

14 **Q. If OPC stipulated, then are not the raised concerns obviated?**

15 A. I thought there were reasonable ring-fence provisions and appropriate regulatory oversight in  
16 place to mitigate my fears. I now believe I was wrong.

17 **Q. Is there any circumstances of which the Commission should be aware during that  
18 timeframe?**

19 A. Yes. Context is important. At the time, it seemed highly likely that US Environmental  
20 Protection Agency's ("EPA") Clean Power Plan would be enforced, and greater federal  
21 oversight on carbon emissions would occur. To be clear, Empire (that is, pre-acquisition  
22 Empire) was the utility best in position, in Missouri, to meet any new federal emissions  
23 standards because of its diverse fuel mix and significant environmental capital investments.

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<sup>60</sup> Case No. EM-2016-0213 Surrebuttal Testimony of David Pasieka p. 6, 17-21.

1 **Q. Did the State of Missouri oppose the Clean Power Plan?**

2 A. Yes. Missouri and 20 others states sued the EPA for exceeding its authority in the Clean Power  
3 Plan.<sup>61</sup>

4 **Q. Did the Missouri Public Service Commission file comments with the EPA expressing  
5 concerns with the Clean Power Plan?**

6 A. Yes. The Missouri Public Service Commission filed comments on December 1, 2014, that  
7 included the following comments on stranded assets:

8 To meet the EPA interim goal, Missouri would need to develop a state compliance plan  
9 taking into account the time needed to finance, permit, construct or commission new  
10 generation. The MoPSC notes that the interim goal does not adequately take into  
11 account potential delays in timing due to right-of-way obtainment or construction of  
12 new pipelines, transmission or generation facilities, which may be needed to achieve  
13 the interim goal. Additionally, **accelerated construction to meet aggressive goals  
14 may ultimately result in unintended stranded resources.** . . .

15 And

16 The EPA notes that timing flexibility, such as that provided with the interim goals,  
17 allows states to develop plans that will help states achieve a number of goals including  
18 addressing concerns about stranded assets. Yet, in order to effectively meet a state's  
19 goals under the proposed timeline, it will be necessary to re-dispatch affected sources  
20 or add new generating capacity. **Accelerated construction to meet aggressive goals  
21 may ultimately result in unintended stranded resources.**<sup>62</sup> (Emphases added).

22 **Q. Was it clear then how Missouri would comply with the Clean Power Plan?**

23 A. No. There was a lot of uncertainty on the compliance end, but much less discussion on what  
24 would happen if the Clean Power Plan did not materialize. I did not believe that a utility would

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<sup>61</sup> Herndon-Dunn, R. (2016) Clean Power Plan stayed by SCOTUS. *The Missouri Times*.  
<https://themissouritimes.com/26920/clean-power-plan-stayed-by-scotus/>.

<sup>62</sup> Kenny, R. et. al (2014) Re: Missouri Public Service Commission's Comments on the Clean Power Plan Proposed Rule under Section 111(d) of the Clean Air Act, Docket ID:EPA-HQ-OAR-2013-0602. [https://www.ieca-us.com/wp-content/uploads/MO-Public-Service-Commission\\_12.01.14.pdf](https://www.ieca-us.com/wp-content/uploads/MO-Public-Service-Commission_12.01.14.pdf); see also Sch. GM-5.

1 voluntarily accelerate construction of assets (not needed to meet load) to strand existing  
2 serviceable assets in place. I certainly did not believe that a utility would continue to seek  
3 recovery of its investment in and an earnings profit off of that self-imposed stranded asset.

4 **Project Red Balloon<sup>63</sup> \*\*\***

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<sup>63</sup> See Sch. GM-6.

<sup>64</sup> Ibid.

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<sup>65</sup> Ibid.



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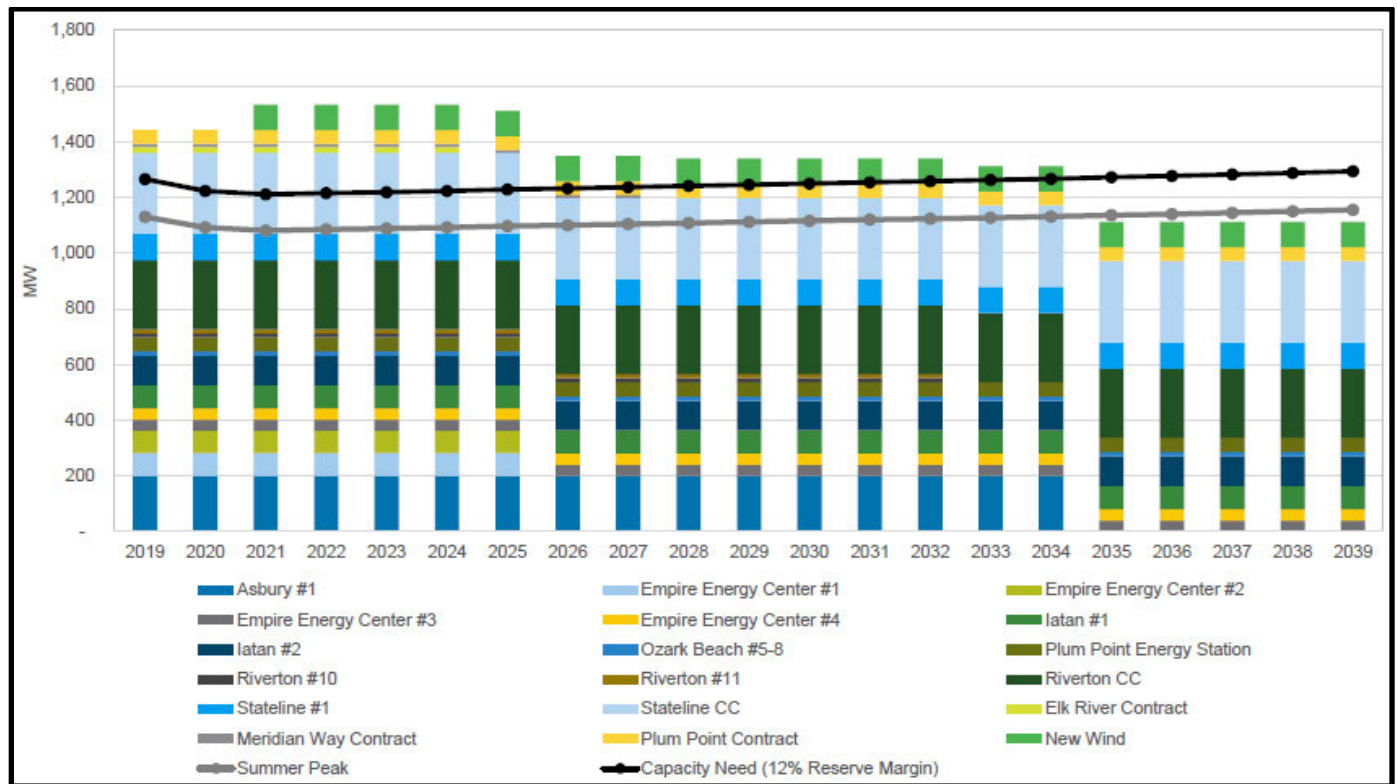
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4 **Retiring Asbury**

5 **Q. What does Empire’s supply-demand balance look like today?**

6 A. Today, Empire is long on capacity with the wind investment. Ratepayers have over-invested in  
7 supply-side generation as seen from Empire’s most recently filed IRP in Figure 9.

8 Figure 9: 2020 IRP, Existing Empire Supply-Demand Balance<sup>66</sup>



<sup>66</sup> EO-2019-0049: The Empire District Electric Company—A Liberty Utilities Company volume 4: Supply-Side Resource Analysis p. 4-20.

1 **Q. Is this a concern?**

2 A. Yes. Remember, the wind investments are dependent on off-system sales revenues. If supply outstrips  
3 demand then those wind investments will have more difficulty covering their costs and ratepayer  
4 financial exposure will increase

5 **Q. Did the wind investments make Asbury uneconomical?**

6 A. I would say yes, with a qualification.

7 **Q. What do you mean?**

8 A. In Figure 9 above, Asbury is listed at the bottom with a 2034 retirement date. Assuming a SPP 12%  
9 reserve margin stays in place, Empire would have no need to make additional supply-side investment  
10 until then. The problem in Figure 9 is how to manage the years out until 2032, and especially out to  
11 the year 2026. During that timeframe, Empire will effectively have “too much” generation. The  
12 additional wind investment makes Empire’s portfolio uneconomic. Asbury has been chosen as the  
13 sacrificial unit because it is the only coal unit that the Company owns outright.

14 Having too much supply is not a good thing if demand is stagnant or your customers are leaving. It  
15 is a financially questionable thing if in spite of that information you build more supply. Empire’s  
16 management is banking on generating excessive revenues from its pending wind investment. To put  
17 those wind investments in the best position to succeed, there needs to be a demand for the energy.  
18 Removing Asbury makes the wind more economical and in a better position to generate more  
19 revenues, but it creates a stranded asset in Asbury because of Asbury’s unpaid balance. In short,  
20 Asbury becomes uneconomical *because* of Empire’s wind investments.

21 To be clear, no one compelled post-acquisition Empire management to invest in the 600  
22 MW of wind that cancelled out Asbury.

23 **Q. Could Empire have sold Asbury?**

24 A. It could have. That would certainly offset the financial penalty. Two problems quickly emerge. First,  
25 Asbury would then be an asset that would be directly competing with the wind investments. Second,  
26 the wind farm that is set to be placed at Asbury would have incurred additional investment costs for  
27 SPP interconnection. Presently, those SPP interconnection investments should be small or nonexistent

1 because the infrastructure is already largely in place at Asbury; however, these costs are still unknown  
2 at this time.

3 **Q. Could Empire have operated Asbury seasonably during months of high demand; thus**  
4 **mitigating market exposure to its customers?**

5 A. It could. That is exactly the plan Xcel Energy has proposed in Minnesota.<sup>67</sup> However, Empire’s SPP  
6 wind project interconnection challenge would remain.

7 **Q. Could Empire have mothballed Asbury and waited to see if another solution presented itself in**  
8 **the future?**

9 A. Yes. In that hypothetical scenario, I would have recommended that shareholders, not ratepayers, bear  
10 the financial responsibility of that unit not running. If the market, policy, or technology changes that  
11 would necessitate Asbury running again (e.g., a Storm Uri), then ratepayers would resume that cost  
12 burden. That is, in the mothball scenario, the principles of “used” and “useful” would continue to  
13 apply.

14 **Q. Could there have been other options?**

15 A. I am sure there probably were. However, based on my discovery with the Company, Empire  
16 management did not even explore the options I articulated above.

17 **Q. To be clear, are customers receiving the benefit of what they are paying for?**

18 A. No. The investments made for Asbury are not being used or useful.

19 **Q. Will APUC shareholders still be financially better off with your recommendations and the**  
20 **600MW of Wind in place than if no wind was built and Asbury was still operational?**

21 A. Yes. Because rate base will still be bigger than it otherwise would be and the risk inherent  
22 in the merchant generation is borne primarily by ratepayers.

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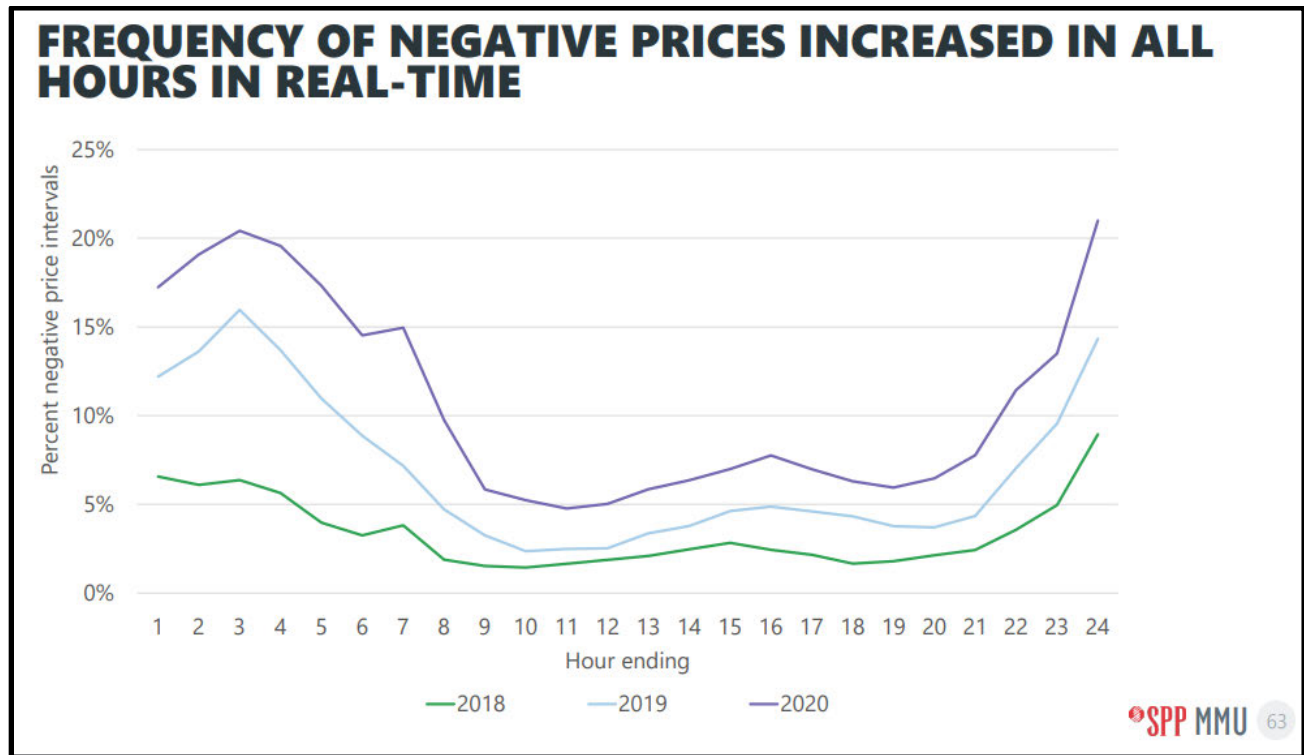
<sup>67</sup> Morehouse, C. (2020) Xcel Minnesota: Running coal seasonally will save customers millions, reduce emissions. *Utilitydive*. <https://www.utilitydive.com/news/xcel-minnesota-running-coal-seasonally-will-save-customers-millions-reduc/569971/>.

1 **IV. CUSTOMER SAVINGS PLAN: RATEPAYER-BACKED MERCHANT**  
2 **GENERATION**

3 **Q. Do you still have outstanding concerns regarding the Customer Savings Plan?**

4 A. Yes. I continue to maintain that the basis for the Customer's Savings Plan, an early 2018 model  
5 based on unrealistic assumptions that the Company refuses to update, was flawed and will  
6 harm Missourians financially for many years to come. Hundreds of pages of testimony were  
7 filed in two cases before this Commission, and already many of our concerns raised in them  
8 have been realized. To provide one illustrative example, consider the increased frequency at  
9 all hours of negative prices in the SPP year-over-year since this project was first brought before  
10 the Commission shown in Figure 10 from SPP's most recent Annual Market Monitor Report.

11 Figure 10: SPP Negative Prices Year-Over-Year at All Hours





1 **Q. Has the Commission recently weighed in on the risks to ratepayers when they are asked**  
2 **to fund merchant generation projects?**

3 A. Yes. The Commission publicly recognized the inherent speculative risk placed on ratepayers  
4 in its response to a PSC Staff alleged concern in Ameren Missouri’s 2020 Integrated  
5 Resource Plan in Case No: EO-2021-0021. There the Commission stated:

6 “However, the Commission shares Staff’s concern (Concern C) that adding large  
7 amounts of renewable generation that are not required to meet MISO resource  
8 adequacy requirements or Missouri statutory or rule requirements, including  
9 providing safe and adequate service, may place an undue level of risk on ratepayers  
10 based on the speculation that market revenues will exceed the overall cost of the  
11 assets. Ameren Missouri inherently benefits its shareholders by investing in  
12 renewable energy while seeking a return on those investments through future rates.  
13 However, that same investment may shift risk to ratepayers that market revenues  
14 from the investments may not exceed the cost of the investments.”<sup>68</sup>

15 Consider for a moment that this statement is being applied to a utility with approximately 1.2  
16 million and contrast that with Empire’s approximate 150K customers. Simply put, the margin  
17 of error for negative financial consequences is much greater for Empire if those early 2018  
18 models prove inaccurate.

19 **Q. What about the “Market Protection Plan Mechanism (“MPPM”)”?**

20 A. As presently drafted it does not provide sufficient customer protection. Nor does it make much  
21 sense in how it will actually operate. OPC witness Lena Mantle expresses OPC’s concerns  
22 with the MPPM and steps the Commission could take to improve it.

23 **Q. What are your concerns with the wind projects?**

24 A. We still do not know the costs associated with SPP generation interconnections. The amounts  
25 of these interconnections is still unknown presently, and could significantly impact the  
26 calculations associated with these investments. Consider for a moment that Ameren Missouri

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<sup>68</sup> Case No: EO-2021-0021. Order Regarding 2020 Integrated Resource Plan, pg 4.

1 had to withdraw its Certificate for Convenience and Necessity for its Brickyard Wind Farm  
2 because its generation interconnection costs exceeded the actual capital costs for that wind  
3 farm. This concern surrounding the uncertainty associated with the generation interconnection  
4 costs for the wind projects was raised by both Staff and OPC in previous filings and remain  
5 unresolved today. Empire elected to move forward with these wind projects despite not having  
6 certainty of the costs it may incur. Ratepayers should not be held liable for excess generation  
7 interconnection costs from what was originally modeled. As these costs become known I will  
8 update them as the opportunity arises in future testimony.

9 **Q. Do you have other concerns with the economics of the wind projects?**

10 A. Yes. I have serious concerns surrounding forced curtailments due to excessive take rates (i.e.,  
11 deaths) of protected and endangered species. Empire has not secured a long-or short-term  
12 incidental take permit (“ITP”) for either of its wind projects in Missouri, which operate within  
13 miles of known habitat caves for grey bats. The uncertainty surrounding potential excessive  
14 “takes” of this protected species raise considerable risk to ratepayers, if output from these wind  
15 projects must be curtailed from their designed and projected operation.

16 **Q. Did Empire begin commercial operation of its Missouri wind projects before it secured  
17 take permits from the US Fish & Wildlife for them?**

18 A. No. The Company secured a 10(a)(1)(A) Testing Program Permit that allows them to operate  
19 commercially; however, I am unaware of any wind farm operating under such a permit. In  
20 effect, the testing program permit places a greater level of scrutiny on the impact of wind farms  
21 on protected species than what would necessarily exist if the Company had secured an ITP. In  
22 short, we don’t know much about the relationship of wind turbines and grey bats at these wind  
23 projects, but we are about to find out over the next couple of years, and that uncertainty could  
24 have a profound impact on the operations and success of those Missouri wind projects. Look  
25 no further than Ameren Missouri’s High Prairie Wind Farm that is not operating 25% of the  
26 year currently to see how this could play out.

1 **Q. What do you recommend be done to address these wildlife curtailment concerns?**

2 I recommend that any costs associated with future curtailments or excess costs associated with  
3 “smart curtailment” should not be borne by ratepayers as the Company elected to move  
4 forward with operation of these wind farms despite full knowledge that it was operating  
5 adjacent to habitats of a protected species. Again, the concerns stemming from cost and  
6 operational uncertainty were raised by OPC and by the Missouri Department of Conservation  
7 in previous cases. It would be inappropriate for future costs and adverse impacts due to grey  
8 bats to be borne by ratepayers for projects that do not operate as intended because of poor  
9 managerial planning and implementation decisions.

10 This recommendation may very well have no impact on rates in this case; however, I put it  
11 forward here to give public notice that OPC may pursue future cost disallowances based on  
12 this simmering issue.

13 **V. ADVANCED METERING INFRASTRUCTURE**

14 **Q. Do you have any concerns with Empire recovering through rates in this case its  
15 investment in AMI?**

16 A. Yes. I am concerned that Empire is seeking recovery of its AMI investments before customers  
17 can realize benefits.

18 **Q. What do you mean?**

19 A. As highlighted in a recent white paper from the American Council for an Energy-Efficient  
20 Economy (“ACEEE”) titled “Leveraging Advanced Metering Infrastructure To Save Energy”  
21 the value-statement for AMI is questionable at best because utilities do not choose to maximize  
22 the benefits available from AMI.<sup>69</sup> In 2019, regulators in Virginia rejected Dominion Energy’s

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<sup>69</sup> York, D. (2020) Smart meters gain popularity, but most utilities don’t optimize their potential to save energy.  
ACEEE <https://aceee.org/blog/2020/01/smart-meters-gain-popularity-most>.

1 proposed smart meter rollout, and utility commissions in New Mexico, Massachusetts and  
2 Kentucky all rejected utility proposals.<sup>70</sup>

3 **Q. Have similar circumstances occurred in Missouri?**

4 A. Yes. Every Metro and Every Missouri West ratepayers are currently paying a return on and  
5 return of extremely expensive AMI hardware and related CIS software without receiving the  
6 benefits AMI enables. That is, Evergy has the ability to provide TOU rates, but no customers  
7 are utilizing it (outside of a handful of pilot participants).

8 **Q. What do you recommend?**

9 A. If Empire is not in a position to offer a default opt-out Time-of-Use rate because it has not  
10 timed its Customer Information System (“CIS”) and billing software with its hardware  
11 investments and/or if the Company has not provided the proper level of education and outreach,  
12 then Empire should not receive a return on the AMI investment it seeks in this general rate  
13 case. Proper AMI deployment is not just replacing the physical meters with more expensive  
14 equipment. That is gold plating. To unlock the espoused benefits of AMI there also needs to  
15 be accompanying software investment in the form of interoperable CIS interface and, perhaps  
16 most importantly, a plan to educate and compel customers to change their usage habits through  
17 Time-of-Use (“TOU”) rates.<sup>71</sup>

18 All three of these parts: 1.) AMI hardware; 2.) CIS interface; and 3.) Educational buy-in of  
19 TOU pricing should be happening simultaneously. Evergy Metro/Missouri West only did parts  
20 1 & 2, and neglected part 3. As a result, customers in those service territories do not experience  
21 the appropriate benefits.

22 My fear is that Empire has staggered deployment of these three parts to increase its rate base  
23 without having to realize benefits to its customers. Such a scenario could play out as follows:

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<sup>70</sup> Walton R. (2020) Most utilities aren’t getting full value from smart meters, report warns. *Utilitydive*.  
<https://www.utilitydive.com/news/most-utilities-arent-getting-full-value-from-smart-meters-report-warns/570249/>.

<sup>71</sup> Admittedly there are “other” potential benefits from AMI. See also: York, D. (2020) Smart meters gain popularity,  
but most utilities don’t optimize their potential to save energy. ACEEE <https://aceee.org/blog/2020/01/smart-meters-gain-popularity-most>.

1 Empire completes part 1 (AMI hardware) in time for the test year in this rate case. Part 2 (CIS  
2 interface); however, is not completed until after the case. Part 3 is realized over the next 10  
3 years in staggered opt-in pilot pricing programs.<sup>72</sup> That scenario is a slow bleed deployment  
4 that rewards the utility with profits without having to produce benefits (at least immediately)  
5 for customers.

6 To be clear, I am not sure AMI is a prudent investment by itself. I also cannot confidently say  
7 that even if all three parts are executed simultaneously it will prove to be a successful  
8 investment. However, I am confident that if the three parts are not executed simultaneously,  
9 customers will be overpaying for their cost of service and be made worse off. As such,  
10 shareholders should not be allowed to profit off of gold plating and no demonstrable benefits  
11 to customers.

## 12 **VI. LOW-INCOME PROGRAMS**

### 13 **Low-Income Pilot Program (“LIPP”)**

#### 14 **Q. What is Empire’s LIPP?**

15 A. Empire’s LIPP includes a total budget of \$250,000 of ratepayer funded costs that provide a  
16 100% discount of the customer charge (\$13.00) for Low Income Heat Energy Assistance  
17 Program (“LIHEAP”) eligible customers.

#### 18 **Q. How has Empire’s LIPP performed to date?**

19 A. The program has performed about as well as expected given the design and the expected goal—  
20 which is to give self-selected low-income customers a small monthly discount. Table 10  
21 provides an annual breakdown of participants by year.

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<sup>72</sup> I have yet to see any Missouri utility execute part 3 to date.

1 Table 10: Total Liberty's Low-Income Pilot Program

Year	2017	2018	2019	2020	2021 <sup>73</sup>
# of participants	2025	3700	3052	2538	1615

2 **Q. Why have the numbers decreased?**

3 A. I do not know. Empire does not keep a record of the reasons for removal, for example, being  
4 disconnected for non-payment. The numbers also do not take into account double-counting  
5 (i.e., customers dropping off but then participating at a later date). In short, the participating  
6 numbers raise outstanding questions that challenge any conclusion as to the program's success.

7 **Q. What changes did the Commission order to Empire's low-income programs in Empire's  
8 last rate case?**

9 A. There were no changes. Empire, Staff and OPC were to meet at least twice prior to the filing  
10 of Empire's next rate case to discuss the Company's Low-Income Pilot Program and whether  
11 or not modifications are warranted.

12 **Q. Did those two meetings occur?**

13 A. Yes. However there was not a consensus on what modifications were necessary to increase  
14 participation in Empire's low-income programs.

15 **Q. Did parties reach consensus on how to move forward?**

16 A. No.

17 **Q. What are your recommendations?**

18 A. I recommend the Company discontinue the LIPP in favor of a payment programs akin to  
19 Ameren Missouri's Keeping Current and Keeping Cool programs.<sup>74</sup> I recommend that Empire  
20 shareholders contribute \$500K in arrearage and cooling assistance to recognize the Company's

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<sup>73</sup> Omits Q4 results.

<sup>74</sup> See GM-7 for tariff examples.

1 failure to fund low-income programs in the past and to be consistent with every other utility in  
2 the state. Such a long overdue commitment would at least be a step in the right direction in  
3 terms of fulfilling corporate social responsibility assertions the APUC put forward in its  
4 acquisition of Empire in Case No. EM-2016-0213. The total amount of funding would be set  
5 at \$750K annually but would not result in a revenue requirement increase (\$250K ratepayers  
6 and \$500K shareholders).

7 **Low-Income Weatherization Assistance Program (“LIWAP”)**

8 **Q. What is Empire’s current LIWAP funding amount?**

9 A. Empire collects an annual budget of \$250,000 from ratepayers with no more than \$15,000  
10 allocated to the Missouri Division of Energy for administrative oversight.

11 **Q. Has this funding level remained the same since its inception?**

12 A. No. The original funding level for LIWAP was set at \$155K of ratepayer-backed funding in  
13 Case No. ER-2004-0570. Subsequent increases the budget occurred as follows:

- 14 • Increase to \$201,300 in Case No. ER-2010-0130;
- 15 • Increase to \$226,430 in Case No. ER-2011-0004; and an
- 16 • Increase to \$250,000 in Case No. ER-2016-0023

17 Unlike every other utility in Missouri, Empire shareholders have not contributed any matching  
18 funds to date towards it LIWAP program.

19 **Q. What is your recommendation regarding LIWAP funding?**

20 A. I recommend that Empire shareholders contribute \$500K in weatherization to recognize the  
21 Company’s failure to fund LIWAP programs in the past and to be consistent with every other  
22 utility in the state. Such a long overdue commitment would at least be a step in the right  
23 direction in terms of fulfilling corporate social responsibility assertions the APUC put forward  
24 in its acquisition of Empire in Case No. EM-2016-0213. The total amount of LIWAP funding  
25 would be set at \$750K annually but would not result in a revenue requirement increase (\$250K  
26 ratepayers and \$500K shareholders).

1 Furthermore, as a result of the uncertainty surrounding COVID-19, federal funding, and  
2 securing appropriate labor for completing LIWAP projects I recommend that Empire’s three  
3 Community Action Agencies (“CAA’s”): the Economic Security Corporation, The Ozark Area  
4 Community Action Corporation, and the West Central Missouri Community Action Agency  
5 be given further discretion in how utility funds are utilized. That is, the CAA’s should be  
6 allowed to utilize the annual utility funding to incentivize and retain employees through  
7 bonuses, be able to direct funding towards marketing and be able to utilize funds on reasonable  
8 “pass-over” measures related to health and safety to ensure projects are completed.

9 I also recommend that the Empire Annual Low-Income meetings occur in which said CAA’s  
10 can report their use of the funding.

11 **Additional Low-Income Program Recommendations**

12 **Q. Do you have any additional recommendations as it pertains to low-income assistance**  
13 **programs?**

14 A. Yes.

15 I recommend that Empire’s Customer Service Reps (“CSRs”) who receive calls from  
16 customers struggling to pay bills ask for consent from that customer to forward their contact  
17 information to the relevant Community Action Agency (“CAA”) so that a representative  
18 from a CAA may contact them about weatherizing their home free of charge and other  
19 assistance if eligible.

20 I recommend Empire utilize an independent 3rd party consultant (up to a one-time \$100K  
21 from the low-income assistance funding) to conduct a needs assessment of Empire’s service  
22 territory, existing programs and recommendations moving forward utilizing primary and  
23 secondary data and make recommendations for programs moving forward (to be initiated  
24 before the close of 2022).

25 I also recommend that Empire conduct a three-year pilot program (up to \$200K annually  
26 split evenly between ratepayers and shareholders) consistent with the framework Critical



1 Needs Program agreed to in the non-unanimous stipulation and agreement in the most recent  
2 Spire rate case, Case No: GR-2021-0108.

3 **Q. What is the Critical Needs Program?**

4 A. In Case No. GR-2021-0108, Legal Services of Eastern Missouri recommended the funding  
5 and adoption of a pilot program modeled after Baltimore Gas & Electric's ("BG&E")  
6 Critical Needs Program ("CNP"). The BG&E program recognized that there are vulnerable  
7 customers who may not have the capacity to research and apply for assistance, negotiate  
8 reasonable payment plans, or properly navigate the application process. Yet their  
9 circumstances make them particularly vulnerable to harm if they become disconnected. In  
10 response, the CNP streamlines and expedites the processes to help customers stay  
11 connected. The pilot's initial goal was to implement immediate access to existing resource  
12 assistance (bill payment, repair, consumer protections, etc.) to customers that seek  
13 assistance in nontraditional utility CSR venues (e.g., hospitals, public and private assistance  
14 agencies, shelters, etc.). The CNP is a voluntary program that trains customer "navigators,"  
15 who work in nontraditional utility CSR venues. The navigators utilize a simple form under  
16 a "fast-track" protocol that provides an expedited process that should:

- 17 • Maintain or restore utility services
- 18 • Avoid negative impacts on residents with serious medical conditions
- 19 • Address build-up of utility bill arrears
- 20 • Provide a streamlined process to complementary services

21 **Q. Is this still a pilot program for BG&E?**

22 A. No. The program's success lead it to becoming a statutory requirement for utilities in  
23 Maryland, and the service is now largely administered by the State's Social Service  
24 Department with additional funding through Maryland's Fuel Fund program.

1 **Q. Wouldn't those elements (Department of Social Service and an independent funding**  
2 **stream) be beyond the scope of the Commission's power in this case?**

3 A. They would; however, I am not suggesting anything more than what parties in Spire's  
4 recent rate case agreed, which was to model the initial pilot program that BG&E produced,  
5 other than for Empire to partner with Spire and contribute an equivalent amount in funding  
6 this endeavor to maximize program efficiency.

7 **Q. Do you have any additional information to share on this topic of critical needs**  
8 **customers?**

9 A. I have spoken with BG&E representatives, and they have expressed a willingness to help  
10 Empire and interested stakeholders with the mechanics behind such a program. I have also  
11 included attachments GM-8A through GM-8D, which provide more detail about the  
12 Maryland program as well as sample customer consent forms (both paper and internet). I  
13 recommend program financing of up to \$500K annually (split 50/50 between  
14 ratepayers/shareholders) for the three-year pilot program, with regular meetings from  
15 interested stakeholders in the low-income collaborative to see if equivalent success can be  
16 achieved for Empire's customers as the BG&E pilot produced. Given Empire's existing  
17 resources, utilizing the BG&E model framework, and partnering with Spire (and likely other  
18 utilities), I believe this could produce excellent results. Any excess annual funding can be  
19 redirected to Empire's bill assistance program.

20 **Q. Could you summarize your low-income recommendations?**

21 A. Yes. A summary of my recommendations is as follows:

- 22 • Discontinue Empire's LIPP program;
- 23 • Implement a Keeping Current & Keeping Cool-like bill assistance program with  
24 ratepayer funding from the discontinued LIPP program and an additional \$500K in  
25 shareholder funds. Total annual funding = \$750,000
- 26 • Continue funding for ratepayer funded LIWAP at \$250K with an additional \$500K  
27 in shareholder funds. Total annual funding = \$750,000

1           ○ CAA’s should be allowed to utilize the annual utility funding to incentivize  
2           and retain employees through bonuses, be able to direct funding towards  
3           marketing and be able to utilize funds on reasonable “pass-over” measures  
4           related to health and safety to ensure projects are completed.

5           • Create a Critical Needs Program consist with the terms agreed and approved in Case  
6           No: GR-2021-0108. Funding split 50/50 between ratepayers and shareholders. Total  
7           annual funding = \$200,000

8           ○ Unspent funding to be allocated to Empire’s bill assistance program

9           • Fund a one-time independent 3<sup>rd</sup> party needs assessment study that should not  
10          exceed \$100,000 in funding from Empire’s bill assistance program; and

11          • Empire’s Customer Service Reps (“CSRs”) who receive calls from customers  
12          struggling to pay bills ask for consent from that customer to forward their contact  
13          information to the relevant Community Action Agency (“CAA”) so that a  
14          representative from a CAA may contact them about weatherizing their home free of  
15          charge and other assistance if eligible.

16 **Q. As a result of your recommendations will there be an increase to the revenue**  
17 **requirement?**

18 A. Yes. In total, there would be a \$100,000 annual increase to ratepayer funded low income  
19 assistance reflected in the revenue requirement. My recommendations result in a \$1.1M  
20 annual contribution from shareholders.

21 **Q. What if the Company continues to refuse to support its community?**

22 A. If the Company continues to fail to support reasonable social responsibility considerations  
23 related to its cost of service as it pertains to its many struggling customers the Commission  
24 should make an explicit 5 basis point downward adjustment to the Company’s Return on  
25 Equity (“ROE”) in recognition of the Company’s failure to meet its espoused commitment  
26 to the local economy since the Company’s acquisition, its inadequate response to COVID-  
27 19 arrearage management (as addressed earlier), and inability to maintain affordable rates  
28 for its customers.

1 **VII. LATE FEES**

2 **Q. What are the purported benefits associated with late fees?**

3 A. The two arguments supporting the continued use of late fees include: 1.) greater revenue  
4 assurance (late fees offset the revenue requirement assuming the Company is not  
5 overearning); and 2.) late fees should (theoretically) encourage timely payments.

6 **Q. Do you support late payment fees?**

7 A. No. I have not seen any evidence to support that late payment fees are an appropriate  
8 deterrent to non-payment, and I believe that any additional fee added to an already  
9 financially struggling customer will increase the likelihood of disconnection. I believe the  
10 threat of disconnection is the primary deterrent to incentivize timely payments, and that  
11 Empire should be doing everything in its power to provide an affordable service, which  
12 should include minimizing punitive charges that make it more likely for already struggling  
13 customers to fall off.

14 **Q. Have any regulators ordered the elimination of late fees?**

15 A. Yes. The Kentucky Public Service Commission recently ruled against their continued use  
16 in Case No: 2020-00141.36 I am also aware that many state commissions ordered  
17 suspending late fees throughout the COVID-19 pandemic.<sup>75</sup>

18 **Q. What is Empire's late payment fee?**

19 A. 0.5% is added onto a customer's bill, if their bill is unpaid at the delinquent date.

20 **Q. Do you have any recommendations to modify this amount?**

21 A. I recommend that Empire's late fees be lowered to match the short term debt  
22 recommendations made by OPC witness David Murray, which is 0.25% annually. Such an  
23 amount would more accurately reflect the cost of service, minimize the punitive pressure  
24 on struggling customers and still incentivize timely payments by having the "threat" of late  
25 payment.

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<sup>75</sup> See GM-9

1 **VIII. Data Privacy and Green Button**

2 **Q. What is your recommendation in regard to data disclosure?**

3 A. Individual personal consumer information such as name, address, account number and  
4 energy usage, particularly customer-specific energy usage obtained through “smart  
5 meters,” must be protected from unauthorized disclosure. The highest-possible privacy  
6 setting of such information should be the default. Consumers should not have to take action  
7 in order to protect their privacy.

8 As such, Empire must not disclose customer information, particularly customer-identified  
9 energy usage data, to any third party or affiliate without the specific affirmative consent of  
10 the consumer after receipt of complete information relevant to the disclosure and the  
11 intended uses of the information. Empire and any third party or affiliate should be required  
12 to limit the use of such information for the specific purposes the customer authorized. OPC  
13 recommends that the Commission order Empire to adopt the Green Button software tool to  
14 enable consumers to easily access and securely download their own household smart meter  
15 data (*Download My Data*). The Green Button also securely allows consumers the ability to  
16 share their smart meter data (*Connect My Data*) with select third parties delivering new  
17 services such as smart thermostats, remote home control systems or rooftop solar. Based on  
18 OPC’s understanding of the Green Button platform, the software should also minimize the  
19 potential for affiliate transaction violations.

20 The Green Button platform has been endorsed by Edison Electric Institute (“EEI”) the US  
21 Department of Energy (“DOE”), NIST, and is currently being utilized by utilities that have  
22 operational AMI in place such as Exelon, PG&E, SDG&E, Evergy, and Southern California  
23 Edison.

24 **Q. What is your recommendation regarding data modeling standards?**

25 A. Release of aggregate information should be confined to limited public agencies (e.g., Staff and  
26 OPC) or academic institutions.

1 For residential usage, Empire should utilize the “15/15 Rule” as the privacy standard  
2 required for release of aggregated data. This privacy standard requires that aggregated data  
3 include a minimum of 15 customers with no customer’s load exceeding 15 percent of the  
4 data set’s energy consumption. For non-residential usage, Empire should utilize the “4/80  
5 Rule” in which aggregated data need to comprise a minimum of four non-residential  
6 customers (within an applicable customer class) and no single customer’s load exceeding  
7 80 percent of the data set’s energy consumption.

8 OPC further recommends that data only be retained for no longer than three years.

9 **Q. What is your recommendation cybersecurity assessments and privacy disclosure?**

10 A. I recommend an annual submission of a Cybersecurity Plan (“CSP”) and privacy impact  
11 assessments (“PIA”) Within six months of rates of going into effect, Empire should be  
12 required to hold a meeting with members of the Staff and OPC to solicit feedback and  
13 discuss the details necessary to submit a comprehensive annual CSP to the Commission that  
14 includes, at a minimum, explicit privacy policies and standards, data breach notification  
15 plans, and the results of periodic privacy impact assessments (“PIA’s”) on the Company’s  
16 assets and operations in tandem with agreements between third-party contractors and sub-  
17 contractors.

18 Moreover, the utilities should utilize an impartial third-party consultant to conduct and  
19 review the PIAs with the summary of the end results made available to the Commission,  
20 Staff and OPC. This will help to promote transparency and appropriate compliance. OPC  
21 recommends that the Commission order Empire to update its privacy policy on its website  
22 outlining the aforementioned standards and safeguards in place in an easily accessible FAQ  
23 format akin to Evergy’s website.<sup>76</sup> Staff and OPC should be notified 60 days before any  
24 changes are made to its privacy policies and the general public should be notified at least  
25 30 days before any changes are made to its privacy policies.

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<sup>76</sup> Evergy: Privacy Policy. <https://www.evergy.com/privacy-policy>

1 **Q. Do you have any additional comments regarding consumer data privacy protections?**

2 A. Yes. Strong consumer data privacy protections are essential to maintaining the trust of  
3 ratepayers. The consequences of a data breach not only affect the customers whose data  
4 may fall into the wrong hands, but may also be costly to smart grid entities and utility  
5 shareholders. These entities may incur costs to restore the data, to provide compensation  
6 such as free credit monitoring for affected customers, to pay any court-awarded damages,  
7 and to repair a diminished reputation and loss of corporate good will. Customers  
8 (individuals, groups, companies or institutions) should determine for themselves when,  
9 how, and to what extent information about them is communicated to others. OPC's  
10 recommendations represent a reasonable path forward as the Commission navigates the  
11 potential inherent threats that accompany a more connected and interdependent smart grid.  
12 OPC reserves the right to amend these recommendations in subsequent testimony based on  
13 Company responses to on-going discovery. It is not clear, presently, whether or not specific  
14 tariff changes would need to be applied to ensure the safeguard compliances referenced  
15 above.

16 The aforementioned recommendations are reasonable and prudent actions to take in the  
17 intermediate time before the Commission's rules in Docket No. AW-2018-0385 are moved  
18 to a rulemaking docket and later codified.

19 **Q. Does this conclude your testimony?**

20 A. Yes.