

**BEFORE  
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Application of Ohio )  
Edison Company, The Cleveland Electric )  
Illuminating Company, and The Toledo )  
Edison Company for Authority to ) Case No. 14-1297-EL-SSO  
Provide for a Standard Service Offer )  
Pursuant to R.C. 4928.143 in the Form of )  
an Electric Security Plan. )

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**SUPPLEMENTAL TESTIMONY OF JOHN SERYAK  
ON BEHALF OF THE  
OHIO MANUFACTURERS' ASSOCIATION ENERGY GROUP**

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**December 30, 2015**

1 **Introduction**

2 **Q. Please state your name and business address.**

3 A. My name is John A. Seryak. My principal place of business is at 3709 N. High  
4 Street, Columbus, Ohio 43214.

5  
6 **Q. By whom are you employed and in what capacity?**

7 A. I am the lead analyst at RunnerStone, LLC on regulatory, policy, and wholesale  
8 market matters concerning customer-sited energy resources, which we define as  
9 energy efficiency, demand response, distributed generation, and energy storage. I  
10 am also Chief Executive Officer of Go Sustainable Energy, LLC, a consultancy  
11 that provides technical assistance on energy efficiency matters to the industrial,  
12 commercial, residential, and utility sectors.

13  
14 **Q. On whose behalf are you testifying in this proceeding?**

15 A. My testimony is being sponsored by the Ohio Manufacturers' Association Energy  
16 Group (OMAEG). OMAEG is a non-profit entity that strives to improve business  
17 conditions in Ohio and drive down the cost of doing business for Ohio  
18 manufacturers.

19 OMAEG members take service under the General Service-Secondary (GS),  
20 General Service Primary (GP), and General Service – Subtransmission (GSU)  
21 tariffs.

22

1 **Q. Please describe your professional experience and qualifications.**

2 A. I received a Bachelor's degree in Mechanical Engineering from the University of  
3 Dayton, as well as a Master's of Science degree in Mechanical Engineering. I am  
4 a licensed Professional Engineer in the State of Ohio. I have worked extensively  
5 with customer-sited resources, primarily energy efficiency, for 14 years. My  
6 experience includes field work at industrial, commercial, and residential buildings  
7 identifying energy savings opportunities and quantifying the energy and dollar  
8 savings, chiefly through my responsibilities the last nine years for Go Sustainable  
9 Energy, LLC, of which I am a founding partner. Finally, I have three years of  
10 experience in regulatory and policy analysis in regard to behind-the-meter  
11 customer-sited energy resources. I have gained this experience in my role as an  
12 energy efficiency engineer to the OMAEG. In connection with these experiences,  
13 I have authored over 25 peer-reviewed academic papers on technical,  
14 programmatic, cultural, and regulatory issues concerning energy efficiency and  
15 distributed generation.

16

17 **Q. Are you the same John A. Seryak who previously filed testimony in this**  
18 **proceeding?**

19 A. Yes. I filed Direct Testimony in this proceeding on March 2, 2015.<sup>1</sup>

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<sup>1</sup> OMAEG Ex. 22.

1 **Overview and Conclusions**

2 **Q. What is the purpose of your testimony in this proceeding?**

3 A. My testimony addresses the Third Supplemental Stipulation and Recommendation  
4 provisions filed in this proceeding by Ohio Edison Company (Ohio Edison), The  
5 Cleveland Electric Illuminating Company (CEI), and The Toledo Edison  
6 Company (Toledo Edison) (collectively, the Companies) on December 1, 2015  
7 (Third Supp. Stipulation), which resulted in the Stipulated ESP IV as defined by  
8 the Ohio Edison Company, the Cleveland Electric Illuminating Company, and the  
9 Toledo Edison Company (collectively, the Companies),<sup>2</sup> including provisions  
10 related to the interaction of energy efficiency and renewable energy issues with  
11 the proposed power purchase agreement (PPA). In summary, I will testify that:

- 12 • The Third Supp. Stipulation provisions reduce wholesale electric market  
13 revenues,<sup>3</sup> and thus would increase costs to customers under Rider RRS.
- 14 • Industry practice has typically over-forecasted load, and the Companies  
15 have used this over-forecast as the basis of their cost estimates included in  
16 the testimony supporting the Third Supp. Stipulation and the filed  
17 workpaper.<sup>4</sup> In contrast, PJM Interconnection, LLC (PJM), the Regional  
18 Transmission Organization (RTO), is downward revising its load forecast,

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<sup>2</sup> As explained by the Third Supp. Stipulation at 2, the Third Supp. Stipulation, together with the “Prior Stipulations” (defined as the December 22, 2014 Stipulation, the May 28, 2015 Supplemental Stipulation, and the June 4, 2015 Second Supplemental Stipulation) form the “Stipulated ESP IV,” which must be considered as a package. See also Fifth Supplemental Testimony of Eileen M. Mikkelsen at 2 (December 1, 2015) (Mikkelsen Fifth Supplemental Testimony). See OMAEG Ex. 19 for a discussion of the amendments to the Application as a result of the three Prior Stipulations.

<sup>3</sup> See Third Supp. Stipulation at 11, 12.

<sup>4</sup> See Fifth Supplemental Testimony of Eileen M. Mikkelsen at 12 and Mikkelsen Workpaper (November 30, 2015), both filed on December 1, 2015 in this proceeding.

1 which would result in lower wholesale electric market prices and  
2 increased Rider RRS costs compared to the Companies' current estimates.

- 3 • The Third Supp. Stipulation's energy efficiency provisions, on balance,  
4 provide no new benefits while introducing elements that would make  
5 energy efficiency more costly.<sup>5</sup>
- 6 • The renewable energy provisions of the Third Supp. Stipulation are anti-  
7 competitive and could negatively impact business interests.<sup>6</sup>

8 Given the wide scope of the issues addressed in the Third Supp. Stipulation, my  
9 recommendations are concentrated on a limited number of issues. Absence of  
10 comment on my part regarding a particular aspect of the Third Supp. Stipulation  
11 or the Stipulated ESP IV does not signify support (or opposition) toward the  
12 Companies' filing with respect to said issue.

13  
14 **Q. What are your primary conclusions and recommendations?**

15 **A.** I conclude that the Third Supp. Stipulation and Stipulated ESP IV are in conflict  
16 with the three-part test considered by the Commission for approval. I disagree  
17 that the Stipulated ESP IV, as a whole, benefits customers and the public interest.  
18 Neither the Companies nor any other signatory party has provided analysis of the  
19 Stipulated ESP IV showing that it benefits customers and the public interest on  
20 the whole. However, many non-signatory parties have provided critiques on why  
21 it will not benefit customers or the public interest.

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<sup>5</sup> See Third Supp. Stipulation at 11, 12, 13.

<sup>6</sup> Id. at 12.

1 Moreover, in the Commission’s limited approval of the establishment of a similar  
2 rider to potentially collect future costs associated with a PPA in AEP Ohio’s  
3 Electric Security Plan proceeding,<sup>7</sup> the Commission set forth key considerations  
4 which the Stipulated ESP IV does not meet:

- 5 • The Commission considered “whether the Company’s proposal would  
6 provide the purported benefits or otherwise further the policy of the  
7 state.”<sup>8</sup> In denying AEP Ohio’s proposed PPA Rider, the Commission  
8 concluded that it “is unable to reasonably determine the rate impact of the  
9 rider,”<sup>9</sup> and stated that it was not persuaded that the proposed rider  
10 “would, in fact, promote rate stability, as the Company claims, or that it is  
11 in the public interest.”<sup>10</sup> Recent revisions to load forecasts, and the  
12 addition of price suppressing provisions in the Third Supp. Stipulation,<sup>11</sup>  
13 create doubt that the Companies’ proposed Rider RRS would produce  
14 benefits during the eight-year term.
- 15 • Another key consideration the Commission established in AEP Ohio’s  
16 ESP Order is that a PPA rider should stabilize the wholesale market for  
17 retail customers.<sup>12</sup> The Commission assumes a PPA rider will rise and fall

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<sup>7</sup> *In the Matter of the Application of Ohio Power Company for Authority to Establish a Standard Service Offer Pursuant to R.C. 4928.143, in the Form of an Electric Security Plan, et al.*, Case No. 13-2385-EL-SSO, et al., Opinion and Order at 20-27 (February 25, 2015) (considering AEP Ohio’s proposed PPA Rider)(AEP Ohio ESP Order).

<sup>8</sup> Id. at 20

<sup>9</sup>Id. at 24.

<sup>10</sup> Id.

<sup>11</sup> Third Supp. Stipulation at 11-12.

<sup>12</sup> AEP Ohio ESP Order at 21, 23.

1 opposite of wholesale prices.<sup>13</sup> However, the Third Supp. Stipulation  
2 undermines this consideration by introducing renewable energy and  
3 storage provisions, and purporting to introduce additional energy  
4 efficiency, all of which suppress wholesale electricity prices, increasing  
5 the costs of Rider RRS to customers.<sup>14</sup> Thus, Rider RRS, as now proposed  
6 via the Stipulated ESP IV, will have inherent internal conflicts, damaging  
7 its ability to function as a hedge.

8  
9 **The Third Supp. Stipulation and New Load Forecast Information Increases the**  
10 **Likelihood that Costs will be Passed onto Customers through Rider RRS.**

11 **Q. Would the provisions of the Third Supp. Stipulation and resulting Stipulated**  
12 **ESP IV affect the costs and benefits of Rider RRS?**

13 **A. Yes.**

14  
15 **Q. Did the Companies provide an analysis of the costs and benefits of Rider**  
16 **RRS to customers over its revised eight-year term, including the additional**  
17 **or modified provisions included in the Third Supp. Stipulation?**

18 **A. No, not in totality.<sup>15</sup>**

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<sup>13</sup> Id. at 21.

<sup>14</sup> Third Supp. Stipulation at 11-12.

<sup>15</sup> See Fifth Supplemental Testimony of Eileen M. Mikkelsen at 12 and Mikkelsen Workpaper (November 30, 2015), both filed on December 1, 2015 in this proceeding; also see, generally, Third Supp. Stipulation.

1 **Q. Did any other Signatory Party or non-opposing party provide an analysis of**  
2 **the costs and benefits of Rider RRS to customers, including the provisions**  
3 **from the Third Supp. Stipulation?**

4 A. No.

5

6 **Q. Did the Companies provide an updated analysis of the projected market**  
7 **revenue and costs associated with RRS Rider in the Third Supp. Stipulation,**  
8 **supporting testimony, or filed workpapers?**

9 A. No. As indicated in the Mikkelsen Workpaper (November 30, 2015), the sources  
10 identified for the projected market revenue and costs associated with Rider RRS  
11 are previously filed exhibits in the proceeding, with a modification to the  
12 projected costs to take into consideration the modified return on equity contained  
13 in the Third Supp. Stipulation.<sup>16</sup>

14

15 **Q. Will the Commission have all quantitative information by which to judge the**  
16 **effect of this Third Supp. Stipulation on customer bills?**

17 A. No, not in totality.

18

19 **Q. Why not?**

20 A. In addition to the new or modified provisions included in the Third Supp.  
21 Stipulation, there is other updated information that could substantively change  
22 previous estimates of costs and benefits of the proposed Rider RRS. PJM is

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<sup>16</sup> See Mikkelsen Workpaper (November 30, 2015) (Attachment JAS-1).



1 reducing its load forecast by 3.5-5%,<sup>17</sup> depending on the year forecasted. This  
2 reduction is recent and concurrent with the settlement negotiations concerning the  
3 Companies' Third Supp. Stipulation. PJM's forecast years are all within the  
4 proposed term of Rider RRS. PJM recently released a draft load forecast. Its  
5 final load forecast is due on or around December 30, 2015.

6  
7 **Q. How could PJM's reduction of its load forecast impact the validity of the**  
8 **Companies' cost estimates included in the testimony supporting the Third**  
9 **Supp. Stipulation and the filed workpaper (Stipulated ESP IV)?**

10 A. The Companies previously estimated costs and benefits of its proposed Rider  
11 RRS is based on PJM's 2014 load forecast.<sup>18</sup> PJM's load forecast reductions of  
12 3.5%-5%, applied to the Companies' estimates would likely reduce the revenue  
13 projected to be achieved by the power plants under the PPA. This would result in  
14 additional costs to customers for every year of its modified eight-year term. Thus,  
15 the Companies are likely significantly overestimating revenue potential of their  
16 power plants included in the PPA.

17 PJM's revisions to its load forecast are in synch with retrospective studies of other  
18 respected load forecasts. For example, the US Department of Energy's (DOE)  
19 Energy Information Administration (EIA) prepares load forecasts as part of its  
20 Annual Energy Outlook (AEO). Even according to EIA's own retrospective  
21 studies, its AEO forecasts nearly always significantly overestimate load in

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<sup>17</sup><http://www.pjm.com/~media/committees-groups/subcommittees/las/20151130/20151130-item-07-preliminary-load-report.ashx>, at 2.

<sup>18</sup> Tr. Vol. VI at 1179, lns.15-23.



1 **Q. How would adoption of PJM's most recent load forecasts affect the**  
2 **Companies' cost estimates of Rider RRS included in the testimony**  
3 **supporting the Third Supp. Stipulation and the filed workpaper (Stipulated**  
4 **ESP IV)?**

5 A. It increases the likelihood that the proposed Rider RRS will only create costs for  
6 customers, not benefits. In light of PJM's load forecast reduction, and EIA's  
7 retrospective review, the Companies' estimate of benefits to customers through  
8 Rider RRS in the later years of the eight-year term is unlikely.<sup>20</sup>

9  
10 **Q. Should the Commission take PJM's reduction in its load forecast into**  
11 **consideration when evaluating the Third Supp. Stipulation?**

12 A. Yes. PJM's revisions mark a major development, and will result in less  
13 generating capacity resources clearing in the PJM capacity auctions. This will  
14 likely suppress capacity clearing prices, and could undercut the Companies'  
15 assumptions of capacity market prices and revenue as stated in the testimony  
16 supporting the Third Supp. Stipulation and the filed workpaper.<sup>21</sup> And, if the  
17 Companies are similarly over-forecasting load in the energy market, it would  
18 result in lower energy sales by the output of the generating facilities included in  
19 the PPA during the eight-year term of Rider RRS.

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<sup>20</sup> See Mikkelsen Workpaper (November 30, 2015) (Attachment JAS-1).

<sup>21</sup> See Fifth Supplemental Testimony of Eileen M. Mikkelsen at 12 and Mikkelsen Workpaper (November 30, 2015), both filed on December 1, 2015 in this proceeding.

1 **Q. Does the Third Supp. Stipulation further modify the Companies' cost**  
2 **estimates?**

3 **A. Yes. The Third Supp. Stipulation introduces, or purports to introduce, several**  
4 **new energy resources:**

- 5 • 100 MW of wind or solar.<sup>22</sup>
- 6 • Battery resources.<sup>23</sup>
- 7 • 800,000 MWh of energy efficiency per year.<sup>24</sup>

8 Each of these resources will have the effect of reducing electricity sales from  
9 traditional generation, reducing capacity sales from traditional generation, and  
10 will suppress prices in wholesale electric energy and capacity markets.

11 For example, utility-scale wind and solar resources are dispatched before other  
12 resources by PJM in its energy markets. The price suppression effect from this  
13 dispatch order was recognized by the Commission in its August 2013 study,  
14 "Renewable Resources and Wholesale Price Suppression",<sup>25</sup> wherein Staff of the  
15 Commission used PROMOD IV to simulate electricity market outcomes. The  
16 report concludes:

- 17 • "The model demonstrates that wholesale electricity market prices in Ohio  
18 are reduced...as a result of incorporating the renewable generation  
19 resources."<sup>26</sup>

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<sup>22</sup>Third Supp. Stipulation at 12.

<sup>23</sup>Id. at 11.

<sup>24</sup>Id. at 11.

<sup>25</sup>[http://www.ohiomfg.com/wp-content/uploads/2013-08-16\\_lb\\_energy\\_renewable\\_resource\\_and\\_wholesal\\_price\\_suppression.pdf](http://www.ohiomfg.com/wp-content/uploads/2013-08-16_lb_energy_renewable_resource_and_wholesal_price_suppression.pdf).

<sup>26</sup>Id. at 5.

- 1           • “As renewable generation requirements escalate and new projects are  
2           required, future model runs can be made...this analysis can be conducted  
3           by Commission Staff through PROMOD IV simulation, a powerful, well  
4           respected and unbiased tool that is currently at our disposal.”<sup>27</sup>

5           Similarly, multiple studies have shown that energy efficiency suppresses load and  
6           prices in both energy and capacity markets. According to Lazard’s 2015  
7           Levelized Cost of Energy (LCOE) study,<sup>28</sup> all of these resources are economically  
8           competitive with, or better than, coal-fired power plants. This increases the  
9           likelihood that these new resources will shift the Companies’ PPA power plants  
10          into an uncompetitive position. In fact, Companies witness Rose (who performed  
11          the underlying forecasted wholesale market electricity prices used to calculate the  
12          costs and revenues included in JAR-1 Revised as referenced on the Mikkelsen  
13          Workpaper (JAS-1))<sup>29</sup> describes in great detail how price suppression from load  
14          reductions has created the economic conditions in which the PPA power plants  
15          are uneconomical.<sup>30</sup>

16          Finally, the Companies witness Rose cites that electricity market price’s “High  
17          volatility is driven by a lack of storage.”<sup>31</sup> As the Companies rely on market  
18          volatility as a key argument for supporting Rider RRS, the introduction of storage  
19          in their Third Supp. Stipulation undermines their original argument of need for

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<sup>27</sup> Id. at 7.

<sup>28</sup> <https://www.lazard.com/media/2390/lazards-levelized-cost-of-energy-analysis-90.pdf>

<sup>29</sup> See reference to JAR-1 Revised and Company Ex. 33 at 6 (Jay A. Ruberto Direct Testimony (August 4, 2014)); also see Tr. Vol. XIII at 2763-69 (September 17, 2015).

<sup>30</sup> Direct Testimony of Judah Rose at 14-20 (Rose Direct) (Companies Exhibit 17).

<sup>31</sup> Id. at 62.

1 Rider RRS. That is, if storage reduces volatility, Rider RRS is not necessarily  
2 needed for that purpose as well.

3 In the context of the Third Supp. Stipulation, price suppression benefits from  
4 renewable energy and energy efficiency resources that would normally accrue  
5 universally to ratepayers would now be countered by Rider RRS. Stipulation.  
6 That is, the Companies' plants could possibly sell less energy, less capacity, and  
7 would certainly sell output at a lower price, because of the renewable and energy  
8 efficiency provisions contained in the Third Supp. Stipulation. The provisions of  
9 the Third Supp. Stipulation would thus reduce the revenue of the Companies'  
10 PPA plants, thus increasing the cost of Rider RRS to customers.

11  
12 **Q. Is the Companies' commitment in the Third Supp. Stipulation to provide**  
13 **energy efficiency savings meaningful?**

14 A. No. First, while the Companies offer to reactivate energy efficiency program  
15 offerings in 2017,<sup>32</sup> they are already required to do so by law. Unless the  
16 Companies are successful in changing the law within the next year, this is a  
17 meaningless provision.

18 Second, the Companies state that their energy efficiency plan "will be subject to  
19 Commission review and approval" in a separate proceeding.<sup>33</sup> Typically, this  
20 review and approval includes addressing how much money the Companies are  
21 allowed to collect in shareholder profit, referred to as "shared savings". There has

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<sup>32</sup> Third Supp. Stipulation at 11.

<sup>33</sup> Id.

1           been considerable dispute among parties on the amount of profit a utility should  
2           be able to collect, what performance metrics this profit should be tied to, and the  
3           timing of the collection. However, the Third Supp. Stipulation deprives the  
4           Commission and intervenor groups from debating shared savings collection in a  
5           separate proceeding, as the shared savings cap is increased and dictated in this  
6           Third Supp. Stipulation.<sup>34</sup>

7           Finally, the Third Supp. Stipulation commits the Companies to file a case prior to  
8           April 3, 2017 to transition to straight-fixed-variable rates for the residential class.  
9           Straight-fixed-variable rate designs remove a significant amount of price signal  
10          between consumer use of electricity and costs. It will inherently undermine  
11          energy efficiency efforts, as efficient users will spend nearly as much on  
12          electricity as inefficient users. This provision could result in shifting energy  
13          efficiency focus away from the residential class to the business class in an  
14          inequitable manner.

15  
16          **Customer Need for a Renewable Energy and Rider ORR**

17          **Q.     How do the Companies propose paying for its proposed wind and solar**  
18          **projects included in the Third Supp. Stipulation?**

19          A.     If the provision is implemented, the Third Supp. Stipulation requires all costs  
20          incurred from the renewable energy projects to be recovered through a non-  
21          bypassable rider, the Ohio Renewable Resources Rider (Rider ORR), by selling  
22          the resource (energy and renewable energy credits (RECs)) into the market, and

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<sup>34</sup> Id. at 12.

1 charging or crediting the difference between the all-in price and the comparable  
2 wholesale price received from the market to customers.

3  
4 **Q. Do businesses already purchase renewable energy?**

5 A. Yes. Businesses and other customers increasingly integrate renewable energy  
6 purchases, or on-site renewable energy projects, into their electricity purchasing  
7 strategies.<sup>35</sup> A business may purchase 100% renewable energy, or strategically  
8 purchase a percentage of its electricity from renewable sources.

9  
10 **Q. What impact does the Third Supp. Stipulation have on customers that have  
11 already purchased renewable energy or installed renewable energy?**

12 A. In effect, these businesses pay twice for renewable energy: First, for their own  
13 project or purchase, and second, for the Companies' proposed Rider ORR.  
14 Moreover, it may affect the revenue that a customer-sited renewable energy  
15 project would otherwise receive. A business may decide to keep, or sell, its RECs  
16 when it develops a renewable energy project. If a business retains its RECs, it  
17 may bypass paying its CRES provider for compliance for the present-day  
18 Renewable Energy Portfolio Standard (RPS), or future CPP compliance. Without  
19 bypassability, a business would subsidize other ratepayers if Rider ORR includes  
20 renewable energy. If a business sells its RECs, the market price of RECs may be

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<sup>35</sup> Public examples include: Amazon's recent announcement to power its new central Ohio data centers with 100% Ohio wind (<http://www.dispatch.com/content/stories/business/2015/11/19/amazon-to-build-wind-farm-in-ohio.html>); Ohio State University's announcement to power 25% of its campus with Ohio wind (<http://oee.osu.edu/ohio-state-to-power-campus-with-wind-energy.html>); and the GM Lordstown Plant's solar installation (<http://media.gm.com/media/us/en/gm/news.detail.html/content/Pages/news/us/en/2014/Oct/1020-lordstown-chevrolet.html>).



1 unfairly influenced by ratepayer subsidization of the Companies' renewable  
2 energy projects. That is, allowing Rider ORR would force a business to subsidize  
3 it's competitor in the REC market.

4  
5 **Q. Is the Rider ORR mechanism different than an RPS in regards to**  
6 **development of renewable energy?**

7 A. Yes. The RPS promotes and allows resource competition. A business may  
8 purchase RECs, sell RECs, or develop its own customer-sited renewable energy  
9 project and retain ownership of the RECs. An RPS creates a market of many  
10 buyers and many sellers, where information is transparently communicated via  
11 market prices of RECs. This competition and market pricing often serves to drive  
12 prices down. Rider ORR, in contrast, undercuts market development by greatly  
13 limiting the number of buyers and sellers. Additionally, by allowing the buyer  
14 and seller to be affiliated, and by removing both parties from the risk of the  
15 project (the ratepayers take the risk), the potential for price manipulation is high.

16  
17 **Q. What are your conclusions?**

18 A. The Companies' estimates of benefits to ratepayers of the Stipulated ESP IV  
19 included in the testimony supporting the Third Supp. Stipulation and filed  
20 workpapers are likely over-estimated, and were completed prior to the filing of  
21 the Third Supp. Stipulation and not updated with the new filings. Nonetheless,  
22 the Third Supp. Stipulation introduces significant amounts of new generation  
23 resources that will reduce revenue of the generation plants included in the PPA,

1 increasing the likelihood that Rider RRS will create costs for customers. It is  
2 quite possible then, that Rider RRS will not provide a hedge at all for customers,  
3 but only create costs.

4 Additionally, the Third Supp. Stipulation does not introduce new energy  
5 efficiency resources, but instead deprives parties of debating critical components  
6 of program costs (shared savings), and introduces rate designs that discourage  
7 energy efficiency.

8 Rider ORR may require businesses to pay twice for renewable energy and is anti-  
9 competitive for the development of renewable energy resources.

10

11 **Q. Do you have recommendations for the Commission?**

12 A. Yes. First, I recommend that the Commission require the Companies to provide  
13 an analysis of the costs and benefits of the total package of the Stipulated ESP IV,  
14 including all provisions of the Third Supp. Stipulation. The proposed Third Supp.  
15 Stipulation creates new precedent and costs for years to come, and the new  
16 provisions are highly interactive, affecting market prices and revenue. A  
17 thorough, transparent cost analysis should be a minimum requirement for such a  
18 proposal. And considering that the Companies relied upon PJM's load forecast  
19 for their cost estimates included in the testimony supporting the Third Supp.  
20 Stipulation, and PJM has significantly changed its load forecast, an updated  
21 analysis is warranted and logical.

1 Second, the Commission should consider requesting its own Staff to use the  
2 market modeling resources that it has and also provide an independent analysis of  
3 the costs and benefits of all provisions of the Stipulated ESP IV, including the  
4 Third Supp. Stipulation.

5 Third, given that the Companies have presented no comprehensive analysis in  
6 support of its Stipulated ESP IV, including the Third Supp. Stipulation, the  
7 Commission should take into consideration that recent downgrades of future load  
8 forecasts and provisions from the Third Supp. Stipulation could result in Rider  
9 RRS no longer serving as a hedge, but only as a cost to customers. For that  
10 reason alone, the Commission should deny it in full.

11 Finally, the Commission should deny the request in the Third Supp. Stipulation to  
12 establish a new non-bypassable rider, the ORR. The renewable energy provisions  
13 of the Third Supp. Stipulation are irrelevant to the Companies' stated needs for its  
14 affiliate's power plants, in addition to being anti-competitive for the development  
15 of renewable energy. At a minimum, the Commission should modify the Third  
16 Supp. Stipulation and establish Rider ORR as bypassable for businesses that are  
17 already purchasing renewable energy or developing renewable energy projects of  
18 their own accord.

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

21 **A. Yes.**

## CERTIFICATE OF SERVICE

I hereby certify that a true and accurate copy of the foregoing was served upon the following parties via electronic mail on December 30, 2015.



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Mikkelsen Workpaper November 30, 2015

Quantitative Benefit of ESP IV		Total	NPV
(\$ in millions)			
Economic Development Funding	\$ 24.0	\$	16.9
Low Income Funding	\$ 19.1	\$	13.5
Customer Advisory Agency Funding	\$ 8.0	\$	5.6
Retail Rate Stability Rider	\$ 561.0	\$	260.0
Total Quantitative Benefit	\$ 612.1	\$	296.0

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	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	Total	NPV
Economic Development	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	24.0	16.9
Low Income Funding	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	19.1	13.5
Customer Advisory Agency Funding	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	8.0	5.6

Source: Third Supplemental Stipulation  
Source: Third Supplemental Stipulation  
Source: Third Supplemental Stipulation

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	2016*	2017	2018	2019	2020	2021	2022	2023	2024*	Total
Projected Market Revenue	606	1,155	1,302	1,507	1,657	1,693	1,738	1,771	748	12,177
Projected Costs	762	1,330	1,386	1,381	1,450	1,477	1,561	1,581	688	11,616
Under (Over) Recovery	155	175	84	(126)	(207)	(216)	(177)	(190)	(60)	(561)
NPV Under(Over) Recovery	144	152	67	(94)	(144)	(140)	(107)	(107)	(31)	(260)

Source: JAR - I Revised (2024 is 5/12 of annual projection)  
Source: Attachments JIL-1 & JIL-2 & JIL-3 Revised\*\*  
Calculation: Line 11 - Line 10  
Calculation: Line 12 / (1+WACC)\*Yrs

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Rider RRS Assumptions

A	Return on Equity	10.38%	Supplemental response to IEU Set 1 INT 25 Attachment I - revised
B	Assumed Debt %	50.00%	Source: JAR - I Revised
C	Assumed Equity %	50.00%	Source: JAR - I Revised
D	Cost of Debt	4.54%	Source: JAR - I Revised
	WACC	7.46%	Calculation: Line A* Line C + Line B* Line D

\*2016 is June 1 - December 31, 2024 is January 1 - May 31.

\*\*With modified Return on Equity Assumption

**This foregoing document was electronically filed with the Public Utilities**

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**Case No(s). 14-1297-EL-SSO**

Summary: Testimony Supplemental Testimony of John Seryak on Behalf of The Ohio Manufacturers' Association Energy Group electronically filed by Mrs. Kimberly W. Bojko on behalf of OMA Energy Group