

BEFORE THE  
PUBLIC SERVICE COMMISSION  
OF MARYLAND

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IN THE MATTER OF THE APPLICATION )  
OF DELMARVA POWER AND LIGHT )  
FOR ADJUSTMENTS TO ITS RETAIL )  
RATES FOR THE DISTRIBUTION OF )  
ELECTRIC ENERGY )

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Case No. 9670

Surrebuttal Testimony of

Melissa Whited

On Behalf of

The Maryland Office of People's Counsel

January 14, 2022

1 **Q. Please state your name, title, and employer.**

2 A. My name is Melissa Whited. I am a Principal Associate at Synapse Energy Economics  
3 (“Synapse”), located at 485 Massachusetts Avenue, Cambridge, MA 02139.

4 **Q. Have you previously filed testimony in this proceeding?**

5 A. Yes. I filed direct testimony on December 2, 2021.

6 **Q. What is the purpose of your surrebuttal testimony?**

7 A. My surrebuttal testimony responds to several points made in the rebuttal testimony of  
8 Company Witness Michael Normand and Staff Witness David Hoppock regarding RT-  
9 ND, as well as Mr. Normand’s responses to my proposals regarding R-TOU-P and a new  
10 electrification rate design.

11 **Q. Please summarize Staff Witness Hoppock’s recommendation regarding rate class  
12 RT-ND.**

13 A. Witness Hoppock notes that his findings regarding RT-ND are broadly consistent with  
14 my findings in that the rate design provides no meaningful way for customers to save  
15 money by shifting load.<sup>1</sup> For this reason, Witness Hoppock recommends closing the class  
16 to new customers and requiring the Company to notify these customers that they would  
17 likely save money by moving to a different rate class. However, Witness Hoppock does  
18 not recommend that RT-ND be permanently closed, as he expresses his hope that the rate  
19 will be redesigned as part of, or as a result of, the PC-44 TOU pilot review process.<sup>2</sup>

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<sup>1</sup> Hoppock rebuttal, at 2.

<sup>2</sup> Hoppock Rebuttal, at 2-3.

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1 **Q. Do you support Witness Hoppock's recommendations?**

2 A. In part. I concur that RT-ND should be redesigned and then be made available to  
3 customers who seek an alternative to R-TOU-P. I also agree that the customers currently  
4 on RT-ND should be notified and informed that they would likely save money by shifting  
5 to a different rate schedule. However, I disagree that the rate schedule should only be  
6 addressed as part of the PC44 process. In its January 31, 2017 order amending the scope  
7 of PC44, the Commission stated:

8 In this proceeding, we will consider the following possible actions:

- 9 1. Implementing one or more time-varying rate pilot  
10 programs for distribution rates;
- 11 2. Implementing one or more time-varying rate pilot  
12 programs for retail rates (unless the private marketplace  
13 proffers such a rate option); and
- 14 3. Implementing a pilot program with time-varying rates  
15 for customers with distributed solar.<sup>3</sup>

16 While the Commission could certainly expand the scope of the PC44 rate design  
17 workgroup to address additional rate designs beyond a pilot for time-varying rates,  
18 including additional options for time-varying rates, I am not aware that it has done so.  
19 Therefore, I maintain my position that it is appropriate to address RT-ND in this  
20 proceeding and reiterate my initial recommendations<sup>4</sup> that:

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<sup>3</sup> Public Service Commission, PC44, In the Matter of Transforming Maryland's Electric Distribution Systems to Ensure that Electric Service is Customer-Centered, Affordable, Reliable, and Environmentally Sustainable in Maryland, January 31, 2017, at 7.

<sup>4</sup> Direct Testimony of Melissa Whited on behalf of the Office of People's Counsel, CN9670, December 2, 2021, at 15-16.

- 1           1. R-TOU-ND should be adjusted to be revenue neutral to the default residential  
2           rate schedule R.
- 3           2. The on-peak period should be reduced from 11 hours to between 4 and 6  
4           hours.
- 5           3. The on-peak and off-peak prices should be clearly linked to the timing of  
6           costs on the system.
- 7           4. The tariff should be made available to all customers, not just customers who  
8           take service from a retail supplier.

9           In addition, the Commission recognized “the need to offer and test new rate design  
10          alternatives among all populations, through multiple mechanisms.”<sup>5</sup> Thus, I do not  
11          believe that it was the intent of the Commission to limit all rate design proposals to the  
12          PC44 workgroup.

13   **Q.    What does Witness Normand propose regarding rate schedule RT-ND?**

14    A.    Witness Normand does not rebut the critiques of RT-ND offered by Staff Witness  
15          Hoppock or myself. However, instead of modifying schedule RT-ND, Witness Normand  
16          proposes that it be closed, and that new customers desiring to take service on a time-  
17          differentiated tariff do so on R-TOU-P.<sup>6</sup>

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<sup>5</sup> Public Service Commission, RE: Public Conference 44 – Rate Design Workgroup, November 28, 2017, at 2.

<sup>6</sup> Delmarva Power & Light Witness Michael T. Normand Rebuttal, December 23, 2021, at 28.

1 **Q. Do you support Witness Normand's recommendation to only offer customers a**  
2 **time-varying rate option through R-TOU-P?**

3 A. No. Offering customers a choice of rate designs that are more efficient than flat rates is  
4 an important means of encouraging customers to take service on time-varying rates.  
5 Customers are heterogenous in their lifestyles and electricity consumption patterns, as  
6 well as their risk tolerances. Thus, a single time-of-use tariff may not appeal to all  
7 customers. For example, some customers may prefer a shorter on-peak window with a  
8 higher on-peak to off-peak price differential, while others may prefer a longer on-peak  
9 window with a lower on-peak to off-peak price differential.

10 **Q. Do any other utilities offer customers a choice of time-varying rates?**

11 A. Yes. Some of the utilities with the highest enrollment in time-varying rates offer multiple  
12 options. For example, Southern California Edison offers three time-varying rate plans:  
13 one with an on-peak period from 4-9 pm ("TOU-D-4-9PM"), one with a shorter on-peak  
14 period from 5-8 pm ("TOU-D-5-8PM"), and one for customers who have invested in  
15 beneficial electrification technologies, such as electric vehicles and heat pumps for space  
16 or water heating ("TOU-D-PRIME").<sup>7</sup> As another example, Arizona Public Service  
17 offers two time-varying rates and has achieved residential enrollment levels of  
18 approximately 55% of its residential customers in these tariffs.<sup>8</sup>

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<sup>7</sup> Southern California Edison, Time-of-Use Residential Rate Plans, <https://www.sce.com/residential/rates/Time-Of-Use-Residential-Rate-Plans>

<sup>8</sup> Arizona Public Service, Docket No., E-01345A-I9-0236, Schedule H-2, Filed October 31, 2019.

1 **Q. Please summarize Witness Normand's objections to developing a new electrification**  
2 **tariff.**

3 A. Witness Normand argues that "any other potential rate designs or new service  
4 classifications focused on beneficial electrification should be considered within a PC-44  
5 rate design workgroup," and states that the Company "does not see sufficient evidence  
6 that customers desire such a rate or that the lower volumetric rate would provide enough  
7 incentive."<sup>9</sup>

8 **Q. How do you respond to Witness Normand's argument that an electrification tariff**  
9 **should be addressed in a PC44 rate design workgroup?**

10 A. While I would support the development of an electrification tariff in the PC44 rate design  
11 workgroup, as noted above, I do not believe that such a tariff is currently within the scope  
12 of the workgroup. While the Commission could direct the workgroup to study an  
13 electrification tariff, it has not yet done so.

14 Again, I do not believe it was the intention of the Commission to limit all innovative rate  
15 design proposals to the PC44 rate design workgroup. Instead, I contend that utilities  
16 should be proactive in proposing new tariffs that will support Maryland in reaching its  
17 energy policy goals by encouraging the adoption of beneficial electrification  
18 technologies, rather than waiting for the Commission to direct them to do so.

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<sup>9</sup> Normand rebuttal, at 28.

1 **Q. Do you believe that the Company should wait to develop an electrification tariff**  
2 **until it sees more evidence that customers desire such a tariff?**

3 A. No. There is no question that customers would prefer to save money on their bills, nor is  
4 there a question that it is the explicit goal of the state to reduce statewide greenhouse gas  
5 emissions by 40% from 2006 levels by 2030. Thus, it is appropriate to propose a tariff  
6 that encourages customers to adopt beneficial electrification technologies such as heat  
7 pumps now.

8 **Q. Would an electrification tariff provide an insufficient incentive for customers, as**  
9 **suggested by Witness Normand?**

10 A. No. Heat pumps for space heating generally use much more electricity than electric  
11 vehicles. Electric vehicles typically use 4,000 kWh per year or less, while a heat pump  
12 can use several times that much. For example, under the default assumptions of the  
13 “Heating Comparison Calculator” on the Company’s website, an 1,800 square foot home  
14 with average insulation and the temperature set at 70 degrees would use more than  
15 13,000 kWh per year.<sup>10</sup> Thus, a reduction in the volumetric rate of \$0.0094/kWh would  
16 result in savings of \$124 per year. However, this only accounts for a reduction in the  
17 volumetric rate due to increasing the fixed charge to \$18. The volumetric rate could be  
18 reduced further if heat pump customers have a better load factor (and thus a lower  
19 average cost to serve), or if the cost of supply service for these customers were lower (as  
20 it apparently is for DPL’s counterpart in Delaware.)

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<sup>10</sup> <https://www.delmarva.com/WaysToSave/ToolsAndResources/Pages/HeatingComparisonCalculator.aspx>

1 **Q. What do you conclude regarding the Company's critiques of your proposals?**

2 A. I find that the Company's critiques lack merit, for the reasons described above. Further, I  
3 am troubled by the Company's unimaginative approach to rate design. The Company  
4 appears reluctant to explore new rate design options that would empower customers to  
5 better manage their electricity consumption and encourage customers to adopt  
6 technologies that would reduce greenhouse gas emissions. I recommend that the  
7 Commission adopt my rate design recommendations and direct the Company to explore  
8 more innovative rate design options going forward.

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

10 A. Yes, it does.