

April 27, 2022

Ms. Tanowa Troupe  
Commission Secretary  
The Public Utilities Commission of Ohio  
180 East Broad Street  
Columbus, OH 43215

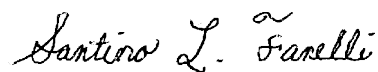
SUBJECT: Case No. 22-0340-EL-RDR

Dear Ms. Troupe:

In response to and compliance with the Commission Opinion and Order in Case No. 14-1297-EL-SSO dated March 31, 2016 (ESP IV Order), the Finding & Order dated May 25, 2016 in Case No. 16-541-EL-RDR and Finding & Order dated April 6, 2022 in Case No. 16-936-EL-UNC, please file the attached tariff pages on behalf of Ohio Edison Company. These tariff pages reflect changes to Rider GEN and its associated pages.

Please file one copy of the tariffs in Case No. 22-0340-EL-RDR. Thank you.

Sincerely,

A handwritten signature in black ink that reads "Santino L. Fanelli". The signature is written in a cursive, flowing style.

Santino L. Fanelli  
Director, Rates & Regulatory Affairs

BEFORE THE  
PUBLIC UTILITIES COMMISSION OF OHIO

|   |   |                         |
|---|---|-------------------------|
| In the Matter of the Filing of Report in  | ) |                         |
| Support of Staff Review of Select Tariffs | ) | Case No. 22-0340-EL-RDR |
| of Ohio Edison Company, The Cleveland     | ) |                         |
| Electric Illuminating Company and The     | ) |                         |
| Toledo Edison Company                     | ) |                         |
|   | ) |                         |
|   | ) |                         |

---

**GENERATION SERVICE RIDER (RIDER GEN) REPORT IN SUPPORT OF  
STAFF’S 2022 ANNUAL REVIEW SUBMITTED BY OHIO EDISON COMPANY,  
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY AND THE  
TOLEDO EDISON COMPANY**

---

In its Order in Case No. 12-1230-EL-SSO, and continued in Case No. 14-1297-EL-SSO, the Commission clarified that the Companies should file annually an application, in a separate docket, for a review of certain riders approved in that proceeding. Also, in its Order in Case No. 16-541-EL-RDR, the Commission directed the Companies to file the PIPP and non-PIPP generation rates for Commission review no later than 30 days following the date of the last auction. Further, in Case No. 16-936-EL-UNC, the Commission directed that the winning bid price for the PIPP RFP shall remain confidential until the scheduled RFPs have been completed by each electric utility in Ohio. In response to the Commission’s Orders noted above and consistent with the schedule agreed to with the Commission Staff, Ohio Edison Company, The Cleveland Electric Illuminating Company (“CEI”) and The Toledo Edison Company (collectively, “Companies”) hereby submit this Report on the Companies’ Rider GEN for the year beginning June 1, 2022.

In accordance with the Orders, the Companies submit the following Exhibits:

- Exhibit A: Rider GEN – Rate Design (Tariff Effective June 1, 2022)
- Exhibit B: Rider GEN (Time-Of-Day Option (Non-Residential)) – Rate Design (Tariff Effective June 1, 2022)
- Exhibit C: Rider GEN (Time-Of-Day Option (Residential)) – Rate Design (Tariff Effective June 1, 2022)
- Exhibit D: Rider GEN – 2022 Effective Tariff Sheets

Respectfully submitted,

/s/Kristen M. Fling

Kristen M. Fling (0099678)

(Counsel of Record)

FIRSTENERGY SERVICE COMPANY

76 South Main Street

Akron, Ohio 44308

(330) 606-8087

[kfling@firstenergycorp.com](mailto:kfling@firstenergycorp.com)

*Attorney for Ohio Edison Company, The Cleveland  
Electric Illuminating Company, and The Toledo  
Edison Company*

Calculation of Standard Service Offer Generation Charges (SSOGC)

| RIDER GEN CHARGES |  |        |         |        |               |
|-------------------|--|--------|---------|--------|---------------|
|                   |  | (A)    | (B)     | (C)    |               |
| 1                 | BLENDED COMPETITIVE BID PRICE (\$ PER MWH) |        |         |        | \$53.62       |
| 2                 | ESTIMATED CAPACITY PRICE (\$ PER MWH)      |        |         |        | \$4.08        |
| 3                 | COMMERCIAL ACTIVITY TAX RATE               |        |         |        | 0.26%         |
| 4                 |  |        |         |        |               |
| 5                 | Rate                                       | Season | Factors |        | Energy Charge |
| 6                 | Schedule                                   |        | Loss    | Season | (\$/kWh)      |
| 7                 |  |        |         |        |               |
| 8                 | RS   | Summer | 0.0628  | 1.1151 | \$0.059604    |
| 9                 |  | Winter | 0.0628  | 0.9613 | \$0.050782    |
| 10                |  |        |         |        |               |
| 11                | GS   | Summer | 0.0628  | 1.1151 | \$0.059604    |
| 12                |  | Winter | 0.0628  | 0.9613 | \$0.050782    |
| 13                |  |        |         |        |               |
| 14                | GP   | Summer | 0.0291  | 1.1151 | \$0.057535    |
| 15                |  | Winter | 0.0291  | 0.9613 | \$0.049019    |
| 16                |  |        |         |        |               |
| 17                | GSU  | Summer | 0.0010  | 1.1151 | \$0.055917    |
| 18                |  | Winter | 0.0010  | 0.9613 | \$0.047640    |
| 19                |  |        |         |        |               |
| 20                | GT   | Summer | 0.0000  | 1.1151 | \$0.055861    |
| 21                |  | Winter | 0.0000  | 0.9613 | \$0.047593    |
| 22                |  |        |         |        |               |
| 23                | STL  | Summer | 0.0628  | 1.1151 | \$0.059604    |
| 24                |  | Winter | 0.0628  | 0.9613 | \$0.050782    |
| 25                |  |        |         |        |               |
| 26                | POL  | Summer | 0.0628  | 1.1151 | \$0.059604    |
| 27                |  | Winter | 0.0628  | 0.9613 | \$0.050782    |
| 28                |  |        |         |        |               |
| 29                | TRF  | Summer | 0.0628  | 1.1151 | \$0.059604    |
| 30                |  | Winter | 0.0628  | 0.9613 | \$0.050782    |

| Column (D)          |             |             |
|---------------------|-------------|-------------|
| (\$/kWh)            |             |             |
| OE                  | CEI         | TE          |
| PJM & Auction Costs |             |             |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |
| \$ 0.000120         | \$ 0.000120 | \$ 0.000120 |

| Column (E)           |             |             |
|----------------------|-------------|-------------|
| (\$/kWh)             |             |             |
| OE                   | CEI         | TE          |
| Total Energy Charges |             |             |
| \$ 0.059724          | \$ 0.059724 | \$ 0.059724 |
| \$ 0.050902          | \$ 0.050902 | \$ 0.050902 |
| \$ 0.059724          | \$ 0.059724 | \$ 0.059724 |
| \$ 0.050902          | \$ 0.050902 | \$ 0.050902 |
| \$ 0.057655          | \$ 0.057655 | \$ 0.057655 |
| \$ 0.049139          | \$ 0.049139 | \$ 0.049139 |
| \$ 0.056037          | \$ 0.056037 | \$ 0.056037 |
| \$ 0.047760          | \$ 0.047760 | \$ 0.047760 |
| \$ 0.055981          | \$ 0.055981 | \$ 0.055981 |
| \$ 0.047713          | \$ 0.047713 | \$ 0.047713 |
| \$ 0.059724          | \$ 0.059724 | \$ 0.059724 |
| \$ 0.050902          | \$ 0.050902 | \$ 0.050902 |
| \$ 0.059724          | \$ 0.059724 | \$ 0.059724 |
| \$ 0.050902          | \$ 0.050902 | \$ 0.050902 |
| \$ 0.059724          | \$ 0.059724 | \$ 0.059724 |
| \$ 0.050902          | \$ 0.050902 | \$ 0.050902 |
| \$ 0.059724          | \$ 0.059724 | \$ 0.059724 |
| \$ 0.050902          | \$ 0.050902 | \$ 0.050902 |
| \$ 0.059724          | \$ 0.059724 | \$ 0.059724 |
| \$ 0.050902          | \$ 0.050902 | \$ 0.050902 |

| Column (F)             |             |             |
|------------------------|-------------|-------------|
| (\$/kWh)               |             |             |
| OE                     | CEI         | TE          |
| Total Capacity Charges |             |             |
| \$ 0.005442            | \$ 0.005826 | \$ 0.006094 |
| \$ 0.005442            | \$ 0.005826 | \$ 0.006094 |
| \$ 0.004775            | \$ 0.004650 | \$ 0.004820 |
| \$ 0.004775            | \$ 0.004650 | \$ 0.004820 |
| \$ 0.003871            | \$ 0.003977 | \$ 0.003914 |
| \$ 0.003871            | \$ 0.003977 | \$ 0.003914 |
| \$ 0.003345            | \$ 0.003370 | \$ 0.002952 |
| \$ 0.003345            | \$ 0.003370 | \$ 0.002952 |
| \$ 0.002623            | \$ 0.001938 | \$ 0.002833 |
| \$ 0.002623            | \$ 0.001938 | \$ 0.002833 |
| \$ -                   | \$ -        | \$ -        |
| \$ -                   | \$ -        | \$ -        |
| \$ -                   | \$ -        | \$ -        |
| \$ -                   | \$ -        | \$ -        |
| \$ 0.003057            | \$ 0.002821 | \$ 0.002672 |
| \$ 0.003057            | \$ 0.002821 | \$ 0.002672 |

NOTES

Col. (C) - Calculation:  $\{[(\text{Col. C, Row 1}) \times \text{Col. B} - (\text{Col. C, Row 2})] / (1 - \text{Col. A})\} \times [1 / (1 - (\text{Col. C, Row 3}))] / 1,000$

Line 1-See page 2, line 4.

Line 2-See page 3, line 2.

Col. (D) - See page 8, line 11.

Col. (E) - Calculation: Col. C + Col. D

Col. (F) - See page 7, column G.

**Calculation of Blended Competitive Bid Price**

**Delivery Period: June 2022 - May 2023**

|      | Procurement<br>Date                  | No. of<br>Tranches | Delivery Period      | Clearing<br>Price <sup>1</sup><br>(\$ / MWH) |
|------|--------------------------------------|--------------------|----------------------|--|
| Line | (A)                                  | (B)                | (C)                  | (D)  |
| 1    | August 23, 2021                      | 33                 | June 2022 - May 2023 | \$42.10                                      |
| 2    | October 4, 2021                      | 33                 | June 2022 - May 2023 | \$50.21                                      |
| 3    | March 7, 2022                        | 34                 | June 2022 - May 2023 | \$68.11                                      |
|      |                                      | <u>100</u>         |                      |  |
| 4    | <b>Blended Competitive Bid Price</b> |                    |                      | <b>\$53.62</b>                               |

NOTES:

Line 4-Calculation: Round(Sumproduct(Column B, Column D)/100, 2)

<sup>1</sup>Source: Auction Manager Reports filed in Case No. 16-0776-EL-UNC

**CONVERSION OF CAPACITY PRICE**

| LINE NO. | PRICE<br>CONVERSION<br>(A) | UNITS<br>(B)        |
|----------|----------------------------|---------------------|
| 1        | 53,920                     | GWh <sup>1</sup>    |
| 2        | \$ 4.08                    | \$/MWh <sup>2</sup> |

**CAPACITY REVENUE REQUIREMENT**

| LINE NO. | COMPANY<br>(C) | AVERAGE<br>PEAK<br>kW<br>(D) | AVERAGE<br>PEAK<br>ALLOCATOR<br>(E)=(D)/(D Line 6) | CAPACITY<br>REVENUE<br>REQUIREMENT<br>(F)=(E)*(F Line 6) |
|----------|----------------|------------------------------|--|--|
| 3        | CEI            | 3,522,659                    | 34.99%   | \$ 76,899,630  |
| 4        | OE             | 4,582,321                    | 45.52%   | \$ 100,032,042   |
| 5        | TE             | 1,962,700                    | 19.50%   | \$ 42,845,738  |
| 6        | <b>TOTAL</b>   | <b>10,067,681</b>            | <b>100.00%</b>                                     | <b>\$ 219,777,411</b>                                    |

NOTES:

Line 1 - GWh grossed up to wholesale for the calculation of \$/MWh capacity price conversion, page 6.

Line 2 - Calculation= (Col. F, row 6) / {(Col. A, row 1) \* 1000} ; represents wholesale capacity price removed from Blended Competitive Bid Price

Line 6 - (Col. D) See page 5, lines 7, 14, 21 for Average Peak kW.

Line 6 - (Col. F) See page 4, column k, line 14.

**ATSI ZONE CAPACITY REVENUE REQUIREMENT**

| LINE | Year | Month     | Date      | Zonal MW <sup>1</sup> | Days | Price <sup>2</sup> | Total           | Remove Wholesale <sup>3</sup> | Wholesale Dollars | Retail Zone    | Allocate to OpCo's Based on PLC <sup>4</sup> |                          |                          |
|------|------|-----------|-----------|-----------------------|------|--------------------|-----------------|-------------------------------|-------------------|----------------|--|--------------------------|--------------------------|
|      |      |           |           |                       |      |                    |                 |                               |                   |                | OHIO (Non PIPP)                              | OHIO (PIPP)              | PP                       |
| 1    |      |           |           |                       |      |                    |                 |                               |                   |                | 90.2%  | 1.8%                     | 8.0%                     |
|      | (A)  | (B)       | (C)       | (D)                   | (E)  | (F)                | (G)=(D)*(E)*(F) | (H)                           | (I)=(E)*(F)*(H)   | (J)=(G)-(I)    | (K)=Col.(K) Line 1 * (J)                     | (L)=Col.(J) Line 1 * (L) | (M)=Col.(M) Line 1 * (J) |
| 2    | 2022 | June      | 6/1/2022  | 14,215.8              | 30   | \$50.05            | \$ 21,344,396   | 882.3                         | \$ 1,324,738      | \$ 20,019,658  | \$ 18,063,897                                | \$ 354,813               | \$ 1,600,948             |
| 3    | 2022 | July      | 7/1/2022  | 14,215.8              | 31   | \$50.05            | \$ 22,055,876   | 882.3                         | \$ 1,368,896      | \$ 20,686,980  | \$ 18,666,027                                | \$ 366,640               | \$ 1,654,313             |
| 4    | 2022 | August    | 8/1/2022  | 14,215.8              | 31   | \$50.05            | \$ 22,055,876   | 882.3                         | \$ 1,368,896      | \$ 20,686,980  | \$ 18,666,027                                | \$ 366,640               | \$ 1,654,313             |
| 5    | 2022 | September | 9/1/2022  | 14,215.8              | 30   | \$50.05            | \$ 21,344,396   | 882.3                         | \$ 1,324,738      | \$ 20,019,658  | \$ 18,063,897                                | \$ 354,813               | \$ 1,600,948             |
| 6    | 2022 | October   | 10/1/2022 | 14,215.8              | 31   | \$50.05            | \$ 22,055,876   | 882.3                         | \$ 1,368,896      | \$ 20,686,980  | \$ 18,666,027                                | \$ 366,640               | \$ 1,654,313             |
| 7    | 2022 | November  | 11/1/2022 | 14,215.8              | 30   | \$50.05            | \$ 21,344,396   | 882.3                         | \$ 1,324,738      | \$ 20,019,658  | \$ 18,063,897                                | \$ 354,813               | \$ 1,600,948             |
| 8    | 2022 | December  | 12/1/2022 | 14,215.8              | 31   | \$50.05            | \$ 22,055,876   | 882.3                         | \$ 1,368,896      | \$ 20,686,980  | \$ 18,666,027                                | \$ 366,640               | \$ 1,654,313             |
| 9    | 2023 | January   | 1/1/2023  | 14,215.8              | 31   | \$50.05            | \$ 22,055,876   | 882.3                         | \$ 1,368,896      | \$ 20,686,980  | \$ 18,666,027                                | \$ 366,640               | \$ 1,654,313             |
| 10   | 2023 | February  | 2/1/2023  | 14,215.8              | 28   | \$50.05            | \$ 19,921,436   | 882.3                         | \$ 1,236,422      | \$ 18,685,014  | \$ 16,859,637                                | \$ 331,159               | \$ 1,494,218             |
| 11   | 2023 | March     | 3/1/2023  | 14,215.8              | 31   | \$50.05            | \$ 22,055,876   | 882.3                         | \$ 1,368,896      | \$ 20,686,980  | \$ 18,666,027                                | \$ 366,640               | \$ 1,654,313             |
| 12   | 2023 | April     | 4/1/2023  | 14,215.8              | 30   | \$50.05            | \$ 21,344,396   | 882.3                         | \$ 1,324,738      | \$ 20,019,658  | \$ 18,063,897                                | \$ 354,813               | \$ 1,600,948             |
| 13   | 2023 | May       | 5/1/2023  | 14,215.8              | 31   | \$50.05            | \$ 22,055,876   | 882.3                         | \$ 1,368,896      | \$ 20,686,980  | \$ 18,666,027                                | \$ 366,640               | \$ 1,654,313             |
| 14   |      |           |           |                       |      |                    |                 |                               |                   | <b>TOTAL :</b> | <b>\$ 219,777,411</b>                        | <b>\$ 4,316,892</b>      | <b>\$ 19,478,202</b>     |

<sup>1</sup> 2022/2023 Final Zonal UCAP obligation.

<sup>2</sup> 2022/2023 Final Zonal Net Load Price. This price reflects what load serving entities pay to PJM and includes the results from the Base Residual Auction, and all Incremental Auctions, and price adjustments to account for RPM auction credits.

<sup>3</sup> 2022/2023 Delivery Year Wholesale Peak Load Contribution (PLC) beginning 6/1/2022.

<sup>4</sup> Allocation factors based on 2022/2023 Delivery Year Peak Load Contribution (PLC) values.

**DEMAND ALLOCATORS**

| LINE NO. | RATE CODE /<br>COMPANY<br>(A) | JUNE<br>PEAK <sup>1</sup><br>kW<br>(B) | JULY<br>PEAK <sup>1</sup><br>kW<br>(C) | AUGUST<br>PEAK <sup>1</sup><br>kW<br>(D) | SEPTEMBER<br>PEAK <sup>1</sup><br>kW<br>(E) | AVERAGE<br>PEAK<br>kW<br>(F)=SUM(B:E)/4 | DEMAND<br>ALLOCATION<br>FACTORS<br>(G) |
|----------|-------------------------------|--|--|--|---|---|--|
| CEI      |                               |  |  |  |   |   |  |
| 1        | RS                            | 1,338,169                              | 1,442,200                              | 1,627,069                                | 964,284                                     | 1,342,930                               | 38.12%                                 |
| 2        | GS                            | 1,408,327                              | 1,273,998                              | 1,038,638                                | 1,363,964                                   | 1,271,232                               | 36.09%                                 |
| 3        | GP                            | 94,473                                 | 90,615                                 | 82,490                                   | 103,873                                     | 92,863                                  | 2.64%                                  |
| 4        | GSU                           | 587,754                                | 553,302                                | 518,395                                  | 618,850                                     | 569,575                                 | 16.17%                                 |
| 5        | GT                            | 279,305                                | 181,273                                | 193,848                                  | 321,317                                     | 243,936                                 | 6.92%                                  |
| 6        | Lighting <sup>2</sup>         | 2,099                                  | 2,090                                  | 2,035                                    | 2,270                                       | 2,123                                   | 0.06%                                  |
| 7        | TOTAL                         | 3,710,127                              | 3,543,478                              | 3,462,476                                | 3,374,557                                   | 3,522,659                               | 100.00%                                |
| OE       |                               |  |  |  |   |   |  |
| 8        | RS                            | 2,153,101                              | 2,271,581                              | 2,525,072                                | 1,484,220                                   | 2,108,493                               | 46.01%                                 |
| 9        | GS                            | 1,503,799                              | 1,302,406                              | 1,110,394                                | 1,473,224                                   | 1,347,456                               | 29.41%                                 |
| 10       | GP                            | 472,809                                | 434,646                                | 409,875                                  | 506,955                                     | 456,071                                 | 9.95%                                  |
| 11       | GSU                           | 133,215                                | 124,438                                | 118,059                                  | 140,702                                     | 129,103                                 | 2.82%                                  |
| 12       | GT                            | 533,179                                | 486,527                                | 519,123                                  | 618,152                                     | 539,245                                 | 11.77%                                 |
| 13       | Lighting <sup>2</sup>         | 1,833                                  | 1,874                                  | 1,795                                    | 2,306                                       | 1,952                                   | 0.04%                                  |
| 14       | TOTAL                         | 4,797,936                              | 4,621,472                              | 4,684,318                                | 4,225,559                                   | 4,582,321                               | 100.00%                                |
| TE       |                               |  |  |  |   |   |  |
| 15       | RS                            | 636,471                                | 698,459                                | 769,886                                  | 461,465                                     | 641,570                                 | 32.69%                                 |
| 16       | GS                            | 427,425                                | 390,129                                | 335,248                                  | 417,384                                     | 392,546                                 | 20.00%                                 |
| 17       | GP                            | 203,148                                | 181,163                                | 175,989                                  | 215,163                                     | 193,866                                 | 9.88%                                  |
| 18       | GSU                           | 13,237                                 | 15,862                                 | 16,628                                   | 15,093                                      | 15,205                                  | 0.77%                                  |
| 19       | GT                            | 688,448                                | 650,227                                | 726,587                                  | 811,772                                     | 719,258                                 | 36.65%                                 |
| 20       | Lighting <sup>2</sup>         | 244                                    | 250                                    | 248                                      | 276   | 255                                     | 0.01%                                  |
| 21       | TOTAL                         | 1,968,973                              | 1,936,091                              | 2,024,586                                | 1,921,151                                   | 1,962,700                               | 100.00%                                |

1-Individual company contributions to the monthly ATSI system peaks for the PJM summer months of 2021 (excluding PIPP customer related peak contributions).

2-Solely traffic lighting ("Rate TRF") contributes to the coincident peak.

Column G: Column F/Column F Line 7, Line 14, Line 21 respectively.



**CONVERSION OF RETAIL KWH SALES TO WHOLESALE**

|       |                             |        | <i>Retail kWh Sales (June 2022 - May 2023) <sup>1</sup></i> |                |                | <i>Wholesale kWh Sales (June 2022 - May 2023) <sup>2</sup></i> |                |                |                |
|-------|-----------------------------|--------|---|----------------|----------------|--|----------------|----------------|----------------|
| Class | Description <sup>3</sup>    | %      | CEI   | OE             | TE             | CEI  | OE             | TE             | TOTAL OH       |
| RS    | RS DL as % of Power Supply  | 6.280% | 5,045,451,799   | 8,480,733,418  | 2,304,073,934  | 5,383,537,984  | 9,049,011,330  | 2,458,465,571  | 16,891,014,886 |
| GS    | GS DL as % of Power Supply  | 6.280% | 5,983,509,394   | 6,176,697,631  | 1,782,524,020  | 6,384,453,045  | 6,590,586,460  | 1,901,967,585  | 14,877,007,090 |
| GP    | GP DL as % of Power Supply  | 2.910% | 511,079,415   | 2,578,629,252  | 1,084,051,902  | 526,397,585  | 2,655,916,419  | 1,116,543,312  | 4,298,857,317  |
| GSU   | GSU DL as % of Power Supply | 0.100% | 3,699,024,437   | 844,728,439    | 112,725,966    | 3,702,727,165  | 845,574,013    | 112,838,805    | 4,661,139,982  |
| GT    | GT DL as % of Power Supply  | 0.000% | 2,755,347,225   | 4,499,864,335  | 5,557,721,835  | 2,755,347,225  | 4,499,864,335  | 5,557,721,835  | 12,812,933,396 |
| STL   | STL DL as % of Power Supply | 6.280% | 87,087,364  | 109,689,323    | 31,994,613     | 92,922,923   | 117,039,397    | 34,138,512     | 244,100,832    |
| POL   | POL DL as % of Power Supply | 6.280% | 49,247,970  | 35,916,051     | 9,001,060      | 52,547,983   | 38,322,718     | 9,604,204      | 100,474,906    |
| TRF   | TRF DL as % of Power Supply | 6.280% | 16,470,666  | 13,975,855     | 2,085,641      | 17,574,334   | 14,912,351     | 2,225,395      | 34,712,081     |
|       |                             |        | 18,147,218,271  | 22,740,234,304 | 10,884,178,971 | 18,915,508,245   | 23,811,227,024 | 11,193,505,220 | 53,920,240,489 |

<sup>1</sup>Billing units based on current forecast (excluding 2021 actual PIPP kWhs).

<sup>2</sup>WS=RS / (1-WLF) where the wholesale loss factor is a percentage of supply.

<sup>3</sup> Distribution Losses ("DL")

**RATE CALCULATION FOR CAPACITY PORTION OF RIDER GEN**

| <b>THE CLEVELAND ELECTRIC ILLUMINATING COMPANY</b> |     |                             |  |  |   |                                      |  |            |         |  |
|--|-----|-----------------------------|--|--|---|--------------------------------------|--|------------|---------|--|
| Capacity Expense<br>12 months                      |     | Demand<br>Allocators<br>(B) | Allocated<br>Capacity Expense<br>(C) = (A) * (B) | CAT Tax<br>(D) = (C) * .26% / (100 - .26%) | Revenue<br>Requirement<br>(E) = (C) + (D) | Billing<br>Units <sup>1</sup><br>(F) | Capacity<br>Charges<br>(G) = (E) / (F) |            |         |  |
| (A)  | RS  | 38.12%                      | \$ 29,316,163                                    | \$ 76,421                                  | \$ 29,392,584                             | 5,045,451,799                        | kWh                                    | \$0.005826 | per kWh |  |
|  | GS  | 36.09%                      | \$ 27,750,983                                    | \$ 72,341                                  | \$ 27,823,324                             | 5,983,509,394                        | kWh                                    | \$0.004650 | per kWh |  |
|  | GP  | 2.64%                       | \$ 2,027,190                                     | \$ 5,284                                   | \$ 2,032,475                              | 511,079,415                          | kWh                                    | \$0.003977 | per kWh |  |
|  | GSU | 16.17%                      | \$ 12,433,823                                    | \$ 32,412                                  | \$ 12,466,235                             | 3,699,024,437                        | kWh                                    | \$0.003370 | per kWh |  |
|  | GT  | 6.92%                       | \$ 5,325,120                                     | \$ 13,881                                  | \$ 5,339,001                              | 2,755,347,225                        | kWh                                    | \$0.001938 | per kWh |  |
|  | TRF | 0.06%                       | \$ 46,351  | \$ 121                                     | \$ 46,472                                 | 16,470,666                           | kWh                                    | \$0.002821 | per kWh |  |
| <b>\$ 76,899,630</b>                               |     |                             |  |  |   |                                      |  |            |         |  |

| <b>OHIO EDISON COMPANY</b>    |     |                             |  |  |   |                                      |  |            |         |  |
|-------------------------------|-----|-----------------------------|--|--|---|--------------------------------------|--|------------|---------|--|
| Capacity Expense<br>12 months |     | Demand<br>Allocators<br>(B) | Allocated<br>Capacity Expense<br>(C) = (A) * (B) | CAT Tax<br>(D) = (C) * .26% / (100 - .26%) | Revenue<br>Requirement<br>(E) = (C) + (D) | Billing<br>Units <sup>1</sup><br>(F) | Capacity<br>Charges<br>(G) = (E) / (F) |            |         |  |
| (A)                           | RS  | 46.01%                      | \$ 46,028,399                                    | \$ 119,986                                 | \$ 46,148,384                             | 8,480,733,418                        | kWh                                    | \$0.005442 | per kWh |  |
|                               | GS  | 29.41%                      | \$ 29,414,956                                    | \$ 76,678                                  | \$ 29,491,634                             | 6,176,697,631                        | kWh                                    | \$0.004775 | per kWh |  |
|                               | GP  | 9.95%                       | \$ 9,956,034                                     | \$ 25,953                                  | \$ 9,981,987                              | 2,578,629,252                        | kWh                                    | \$0.003871 | per kWh |  |
|                               | GSU | 2.82%                       | \$ 2,818,324                                     | \$ 7,347                                   | \$ 2,825,670                              | 844,728,439                          | kWh                                    | \$0.003345 | per kWh |  |
|                               | GT  | 11.77%                      | \$ 11,771,719                                    | \$ 30,686                                  | \$ 11,802,405                             | 4,499,864,335                        | kWh                                    | \$0.002623 | per kWh |  |
|                               | TRF | 0.04%                       | \$ 42,612  | \$ 111                                     | \$ 42,723                                 | 13,975,855                           | kWh                                    | \$0.003057 | per kWh |  |
| <b>\$ 100,032,042</b>         |     |                             |  |  |   |                                      |  |            |         |  |

| <b>THE TOLEDO EDISON COMPANY</b> |     |                             |  |  |   |                                      |  |            |         |  |
|----------------------------------|-----|-----------------------------|--|--|---|--------------------------------------|--|------------|---------|--|
| Capacity Expense<br>12 months    |     | Demand<br>Allocators<br>(B) | Allocated<br>Capacity Expense<br>(C) = (A) * (B) | CAT Tax<br>(D) = (C) * .26% / (100 - .26%) | Revenue<br>Requirement<br>(E) = (C) + (D) | Billing<br>Units <sup>1</sup><br>(F) | Capacity<br>Charges<br>(G) = (E) / (F) |            |         |  |
| (A)                              | RS  | 32.69%                      | \$ 14,005,471                                    | \$ 36,509                                  | \$ 14,041,980                             | 2,304,073,934                        | kWh                                    | \$0.006094 | per kWh |  |
|                                  | GS  | 20.00%                      | \$ 8,569,287                                     | \$ 22,338                                  | \$ 8,591,626                              | 1,782,524,020                        | kWh                                    | \$0.004820 | per kWh |  |
|                                  | GP  | 9.88%                       | \$ 4,232,089                                     | \$ 11,032                                  | \$ 4,243,121                              | 1,084,051,902                        | kWh                                    | \$0.003914 | per kWh |  |
|                                  | GSU | 0.77%                       | \$ 331,926                                       | \$ 865                                     | \$ 332,791                                | 112,725,966                          | kWh                                    | \$0.002952 | per kWh |  |
|                                  | GT  | 36.65%                      | \$ 15,701,407                                    | \$ 40,930                                  | \$ 15,742,337                             | 5,557,721,835                        | kWh                                    | \$0.002833 | per kWh |  |
|                                  | TRF | 0.01%                       | \$ 5,557   | \$ 14                                      | \$ 5,572                                  | 2,085,641                            | kWh                                    | \$0.002672 | per kWh |  |
| <b>\$ 42,845,738</b>             |     |                             |  |  |   |                                      |  |            |         |  |

Source: For Column (A), please see page 3, lines 3-5. For Column (B), please see page 5 column G, lines 1-6, 8-13, and 15-20.

<sup>1</sup> Estimated June 2022 - May 2023 Retail kWh Sales (excluding PIPP customers). Billing units based on most recent forecast.

**ESTIMATED AUCTION COSTS - GENERATION RELATED**

| Line | <u>Cost Description</u>                                    | OHIO  |    |          |
|------|--|---|----|----------|
| 1    | Estimated Annual Auction Expense <sup>1</sup>              | \$ 640,000  |    |          |
|      | <u>June 2022 - May 2023 Nonshop kWh Usage</u> <sup>2</sup> | OHIO  |    |          |
| 2    | RS   | 3,692,903,951   |    |          |
| 3    | GS   | 873,462,678   |    |          |
| 4    | GP   | 191,505,011   |    |          |
| 5    | GSU  | 180,742,577   |    |          |
| 6    | GT   | 299,282,255   |    |          |
| 7    | STL  | 31,001,067  |    |          |
| 8    | POL  | 38,279,536  |    |          |
| 9    | TRF  | 21,518,506  |    |          |
| 10   | TOTAL  | <u>5,328,695,580</u>  |    |          |
|      | <u>kWh Charge Adder</u>                                    |   |    |          |
| 11   | \$/kWh (grossed up for CAT)                                | <table border="1"><tr><td>\$</td><td>0.000120</td></tr></table> | \$ | 0.000120 |
| \$   | 0.000120   |   |    |          |

NOTES:

- 1 Estimated annual POLR auction expenses, based on 2021 expenses.
- 2 Billing units based on current forecast (excluding 2021 actual PIPP kWhs).
- 3 Line 11 - Line 1/ Line 10/ (1-.0026)

**Development of Allocation Factors for Time-of-Day (Non-Residential) Option Under Rider GEN \***

| Line   | (A)<br>Season | (B)<br>Total Hrs. | (C)<br>Σ LMP | (D)<br>Avg. LMP | (E)<br>Factor |
|--------|---------------|-------------------|--------------|-----------------|---------------|
| Summer |               |                   |              |                 |               |
| 1      | Off-Peak      | 3,504             | 88,149.30    | \$25.16         | 0.8577        |
| 2      | Midday-Peak   | 1,170             | 50,461.49    | \$43.13         | 1.4705        |
| 3      | Shoulder-Peak | 1,950             | 55,666.75    | \$28.55         | 0.9733        |
| 4      | Total         | 6,624             | 194,277.54   | \$29.33         | 1.0000        |
| Winter |               |                   |              |                 |               |
| 5      | Off-Peak      | 10,512            | 260,607.15   | \$24.79         | 0.8672        |
| 6      | Midday-Peak   | 3,438             | 113,509.32   | \$33.02         | 1.1548        |
| 7      | Shoulder-Peak | 5,730             | 188,517.41   | \$32.90         | 1.1508        |
| 8      | Total         | 19,680            | 562,633.88   | \$28.59         | 1.0000        |
| Total  |               |                   |              |                 |               |
| 9      | Off-Peak      | 14,016            | 348,756.45   | \$24.88         | 0.8647        |
| 10     | Midday-Peak   | 4,608             | 163,970.81   | \$35.58         | 1.2366        |
| 11     | Shoulder-Peak | 7,680             | 244,184.16   | \$31.79         | 1.1049        |
| 12     | Total         | 26,304            | 756,911.42   | \$28.78         | 1.0000        |

**NOTES**

- (A) Summer = June 1 through August 31; Winter = September 1 through May 31  
Midday-Peak = noon to 6:00pm EST, Monday through Friday, excluding holidays  
Shoulder-Peak = 6:00am to noon and 6:00pm to 10:00pm EST, Monday through Friday, excluding holidays  
Off-Peak = All other hours
- (B) Total number of hours from January 2019 - December 2021.
- (C) Sum of annual average hourly LMPs at ATSI zone in PJM from January 2019 - December 2021.
- (D) Calculation: Column C / Column B.
- (E) Calculation: Column D / (Average Column D).
- \* Source: Historical LMP data (\$ / MWH) at the ATSI load zone in PJM for the 36-month time period January 2019 - December 2021.

**Calculation of Time-of-Day (Non-Residential) Option Pricing Under Rider GEN\***

| RIDER GEN TOTAL ENERGY CHARGES |  |        |         |         |            |               |              | RIDER GEN - TIME-OF-DAY OPTION |          |          |                 |            |            |
|--------------------------------|--|--------|---------|---------|------------|---------------|--------------|--------------------------------|----------|----------|-----------------|------------|------------|
|                                |  | (A)    | (B)     | (C)     | (D)        | (E)           |              | (F)                            | (G)      | (H)      | (I)             | (J)        | (K)        |
| 1                              | BLENDED COMPETITIVE BID PRICE (\$/MWH) |        |         | \$53.62 |            |               |              |                                |          |          |                 |            |            |
| 2                              | ESTIMATED CAPACITY PRICE (\$ PER MWH)  |        |         | \$4.08  |            |               |              |                                |          |          |                 |            |            |
| 3                              | COMMERCIAL ACTIVITY TAX RATE           |        |         | 0.26%   |            |               |              |                                |          |          |                 |            |            |
| 4                              |  |        |         |         |            |               |              |                                |          |          |                 |            |            |
| 5                              | Rate                                   | Season | Factors |         | Energy     | PJM &         | Total Energy | Factors                        |          |          | Prices (\$/kWh) |            |            |
| 6                              | Schedule                               |        | Loss    | Season  | Charge     | Auction Costs | Charges      | Midday                         | Shoulder | Off-Peak | Midday          | Shoulder   | Off-Peak   |
| 7                              |  |        |         |         |            |               |              |                                |          |          |                 |            |            |
| 8                              | GS                                     | Summer | 0.0628  | 1.1151  | \$0.059604 | \$0.000120    | \$0.059724   | 1.4705                         | 0.9733   | 0.8577   | \$0.087824      | \$0.058129 | \$0.051225 |
| 9                              |  | Winter | 0.0628  | 0.9613  | \$0.050782 | \$0.000120    | \$0.050902   | 1.1548                         | 1.1508   | 0.8672   | \$0.058782      | \$0.058578 | \$0.044142 |
| 10                             |  |        |         |         |            |               |              |                                |          |          |                 |            |            |
| 11                             | GP                                     | Summer | 0.0291  | 1.1151  | \$0.057535 | \$0.000120    | \$0.057655   | 1.4705                         | 0.9733   | 0.8577   | \$0.084782      | \$0.056116 | \$0.049451 |
| 12                             |  | Winter | 0.0291  | 0.9613  | \$0.049019 | \$0.000120    | \$0.049139   | 1.1548                         | 1.1508   | 0.8672   | \$0.056746      | \$0.056549 | \$0.042613 |
| 13                             |  |        |         |         |            |               |              |                                |          |          |                 |            |            |
| 14                             | GSU                                    | Summer | 0.0010  | 1.1151  | \$0.055917 | \$0.000120    | \$0.056037   | 1.4705                         | 0.9733   | 0.8577   | \$0.082402      | \$0.054541 | \$0.048063 |
| 15                             |  | Winter | 0.0010  | 0.9613  | \$0.047640 | \$0.000120    | \$0.047760   | 1.1548                         | 1.1508   | 0.8672   | \$0.055153      | \$0.054962 | \$0.041417 |
| 16                             |  |        |         |         |            |               |              |                                |          |          |                 |            |            |
| 17                             | GT                                     | Summer | 0.0000  | 1.1151  | \$0.055861 | \$0.000120    | \$0.055981   | 1.4705                         | 0.9733   | 0.8577   | \$0.082320      | \$0.054486 | \$0.048015 |
| 18                             |  | Winter | 0.0000  | 0.9613  | \$0.047593 | \$0.000120    | \$0.047713   | 1.1548                         | 1.1508   | 0.8672   | \$0.055099      | \$0.054908 | \$0.041377 |

**NOTES**

(C) Calculation:  $\{[(\text{Col. C, Row 1}) \times \text{Col. B} - (\text{Col. C, Row 2})] / (1 - \text{Col. A})\} \times [1 / (1 - (\text{Col. C, Row 3}))] / 1,000$

(D) See page 8, line 11 of the Rider GEN Workpaper.

(E) Calculation: Column C + Column D.

(F) See page 1, Col. E lines 2 & 6.

(G) See page 1, Col. E lines 3 & 7.

(H) See page 1, Col. E lines 1 & 5.

(I) Calculation: Column E x Column F.

(J) Calculation: Column E x Column G.

(K) Calculation: Column E x Column H.

\* The capacity pricing under the TOD Option is the same as Rider GEN, therefore the above workpaper only includes the energy charges of Rider GEN-TOD.

**Residential Time-Varying Rate Design - Summer**

Midday = 2pm-6pm (HE 15 - HE 18); Shoulder = 6am - 2pm (HE 7 - HE 14) and 6pm - 8pm (HE 19 - HE 20); excludes weekends and holidays

| (1)  | Hr Ending | Peak Days  | Non-Peak Days | Total      | Midday    | Shoulder  | Off       | Total      |
|------|-----------|------------|---------------|------------|-----------|-----------|-----------|------------|
| (2)  | 1         | 461,867    | 185,346       | 647,213    | 0         | 0         | 647,213   | 647,213    |
| (3)  | 2         | 395,753    | 169,149       | 564,902    | 0         | 0         | 564,902   | 564,902    |
| (4)  | 3         | 359,091    | 154,677       | 513,767    | 0         | 0         | 513,767   | 513,767    |
| (5)  | 4         | 342,346    | 147,422       | 489,768    | 0         | 0         | 489,768   | 489,768    |
| (6)  | 5         | 342,926    | 140,925       | 483,851    | 0         | 0         | 483,851   | 483,851    |
| (7)  | 6         | 353,592    | 134,793       | 488,384    | 0         | 0         | 488,384   | 488,384    |
| (8)  | 7         | 373,489    | 130,123       | 503,612    | 0         | 373,489   | 130,123   | 503,612    |
| (9)  | 8         | 380,963    | 140,883       | 521,847    | 0         | 380,963   | 140,883   | 521,847    |
| (10) | 9         | 383,236    | 158,226       | 541,462    | 0         | 383,236   | 158,226   | 541,462    |
| (11) | 10        | 391,918    | 180,782       | 572,700    | 0         | 391,918   | 180,782   | 572,700    |
| (12) | 11        | 419,522    | 192,486       | 612,008    | 0         | 419,522   | 192,486   | 612,008    |
| (13) | 12        | 454,779    | 211,865       | 666,644    | 0         | 454,779   | 211,865   | 666,644    |
| (14) | 13        | 486,275    | 220,909       | 707,184    | 0         | 486,275   | 220,909   | 707,184    |
| (15) | 14        | 506,428    | 233,136       | 739,564    | 0         | 506,428   | 233,136   | 739,564    |
| (16) | 15        | 523,352    | 236,376       | 759,729    | 523,352   | 0         | 236,376   | 759,729    |
| (17) | 16        | 564,138    | 239,190       | 803,328    | 564,138   | 0         | 239,190   | 803,328    |
| (18) | 17        | 616,696    | 250,608       | 867,304    | 616,696   | 0         | 250,608   | 867,304    |
| (19) | 18        | 688,238    | 274,533       | 962,772    | 688,238   | 0         | 274,533   | 962,772    |
| (20) | 19        | 703,132    | 300,557       | 1,003,688  | 0         | 703,132   | 300,557   | 1,003,688  |
| (21) | 20        | 720,848    | 303,580       | 1,024,427  | 0         | 720,848   | 303,580   | 1,024,427  |
| (22) | 21        | 712,049    | 305,768       | 1,017,816  | 0         | 0         | 1,017,816 | 1,017,816  |
| (23) | 22        | 692,062    | 284,780       | 976,842    | 0         | 0         | 976,842   | 976,842    |
| (24) | 23        | 647,283    | 266,809       | 914,092    | 0         | 0         | 914,092   | 914,092    |
| (25) | 24        | 563,652    | 224,708       | 788,360    | 0         | 0         | 788,360   | 788,360    |
| (26) |           | 12,083,634 | 5,087,630     | 17,171,264 | 2,392,424 | 4,820,589 | 9,958,251 | 17,171,264 |

| (27) | Average kWh Breakdown per Customer |  |  | Midday | Shoulder | Off   | Total  |
|------|------------------------------------|--|--|--------|----------|-------|--------|
| (28) | % Average kWh                      |  |  | 13.9%  | 28.1%    | 58.0% | 100.0% |
| (29) | Average Monthly kWh per Customer   |  |  | 111    | 225      | 464   | 800    |

| (32) | Monthly Bill Comparison | Rate (\$/kWh) |            | Average Monthly kWh |     | Monthly Charges |
|------|-------------------------|---------------|------------|---------------------|-----|-----------------|
|      |                         | Factor        | Price      | % Total             | kWh |                 |
| (33) | Standard Rider GEN Rate |               | \$0.059724 | 100.0%              | 800 | \$47.78         |
| (34) | Time-Varying Rate       |               |            |                     |     |                 |
| (35) | Midday Peak             | 165%          | \$0.098401 | 13.9%               | 111 | \$10.97         |
| (36) | Shoulder Peak           | 104%          | \$0.062268 | 28.1%               | 225 | \$13.98         |
| (37) | Off Peak                | 82%           | \$0.049200 | 58.0%               | 464 | \$22.83         |
| (38) | Total TVR               |               | \$0.059724 | 100.0%              | 800 | \$47.78         |
| (39) | Difference              |               | \$0.000000 |                     |     | \$0.00          |

**Residential Time-Varying Rate Design - Winter**

Midday = 2pm-6pm (HE 15 - HE 18); Shoulder = 6am - 2pm (HE 7 - HE 14) and 6pm - 8pm (HE 19 - HE 20); excludes weekends and holidays

| (1)  | Hr Ending | Peak Days  | Non-Peak Days | Total      | Midday    | Shoulder   | Off        | Total      |
|------|-----------|------------|---------------|------------|-----------|------------|------------|------------|
| (2)  | 1         | 964,274    | 428,876       | 1,393,150  | 0         | 0          | 1,393,150  | 1,393,150  |
| (3)  | 2         | 886,168    | 394,094       | 1,280,262  | 0         | 0          | 1,280,262  | 1,280,262  |
| (4)  | 3         | 853,514    | 374,441       | 1,227,956  | 0         | 0          | 1,227,956  | 1,227,956  |
| (5)  | 4         | 858,377    | 370,493       | 1,228,869  | 0         | 0          | 1,228,869  | 1,228,869  |
| (6)  | 5         | 908,015    | 376,242       | 1,284,257  | 0         | 0          | 1,284,257  | 1,284,257  |
| (7)  | 6         | 1,032,723  | 394,655       | 1,427,378  | 0         | 0          | 1,427,378  | 1,427,378  |
| (8)  | 7         | 1,175,509  | 424,992       | 1,600,500  | 0         | 1,175,509  | 424,992    | 1,600,500  |
| (9)  | 8         | 1,225,571  | 480,211       | 1,705,783  | 0         | 1,225,571  | 480,211    | 1,705,783  |
| (10) | 9         | 1,207,410  | 534,591       | 1,742,001  | 0         | 1,207,410  | 534,591    | 1,742,001  |
| (11) | 10        | 1,160,044  | 561,671       | 1,721,715  | 0         | 1,160,044  | 561,671    | 1,721,715  |
| (12) | 11        | 1,133,801  | 569,559       | 1,703,359  | 0         | 1,133,801  | 569,559    | 1,703,359  |
| (13) | 12        | 1,113,646  | 569,712       | 1,683,358  | 0         | 1,113,646  | 569,712    | 1,683,358  |
| (14) | 13        | 1,092,899  | 566,549       | 1,659,448  | 0         | 1,092,899  | 566,549    | 1,659,448  |
| (15) | 14        | 1,062,411  | 552,808       | 1,615,219  | 0         | 1,062,411  | 552,808    | 1,615,219  |
| (16) | 15        | 1,065,278  | 541,448       | 1,606,725  | 1,065,278 | 0          | 541,448    | 1,606,725  |
| (17) | 16        | 1,132,431  | 545,867       | 1,678,299  | 1,132,431 | 0          | 545,867    | 1,678,299  |
| (18) | 17        | 1,257,175  | 569,368       | 1,826,543  | 1,257,175 | 0          | 569,368    | 1,826,543  |
| (19) | 18        | 1,397,882  | 600,210       | 1,998,092  | 1,397,882 | 0          | 600,210    | 1,998,092  |
| (20) | 19        | 1,429,258  | 608,645       | 2,037,903  | 0         | 1,429,258  | 608,645    | 2,037,903  |
| (21) | 20        | 1,440,166  | 609,931       | 2,050,097  | 0         | 1,440,166  | 609,931    | 2,050,097  |
| (22) | 21        | 1,476,644  | 619,524       | 2,096,168  | 0         | 0          | 2,096,168  | 2,096,168  |
| (23) | 22        | 1,437,841  | 596,792       | 2,034,633  | 0         | 0          | 2,034,633  | 2,034,633  |
| (24) | 23        | 1,298,300  | 545,863       | 1,844,163  | 0         | 0          | 1,844,163  | 1,844,163  |
| (25) | 24        | 1,120,316  | 473,336       | 1,593,652  | 0         | 0          | 1,593,652  | 1,593,652  |
| (26) |           | 27,729,652 | 12,309,879    | 40,039,531 | 4,852,766 | 12,040,714 | 23,146,051 | 40,039,531 |

| (27) | Average kWh Breakdown per Customer |  |  | Midday | Shoulder | Off   | Total  |
|------|------------------------------------|--|--|--------|----------|-------|--------|
| (28) | % Average kWh                      |  |  | 12.1%  | 30.1%    | 57.8% | 100.0% |
| (29) | Average Monthly kWh per Customer   |  |  | 97     | 241      | 462   | 800    |

| (32) | Monthly Bill Comparison | Rate (\$/kWh) |            | Average Monthly kWh |     | Monthly Charges |
|------|-------------------------|---------------|------------|---------------------|-----|-----------------|
|      |                         | Factor        | Price      | % Total             | kWh |                 |
| (33) | Standard Rider GEN Rate |               | \$0.050902 | 100.0%              | 800 | \$40.72         |
| (34) | Time-Varying Rate       |               |            |                     |     |                 |
| (35) | Midday Peak             | 158%          | \$0.080562 | 12.1%               | 97  | \$7.81          |
| (36) | Shoulder Peak           | 117%          | \$0.059364 | 30.1%               | 241 | \$14.28         |
| (37) | Off Peak                | 79%           | \$0.040281 | 57.8%               | 462 | \$18.63         |
| (38) | Total TVR               |               | \$0.050902 | 100.0%              | 800 | \$40.72         |
| (39) | Difference              |               | \$0.000000 |                     |     | \$0.00          |

**NOTES**

(1) - (25) Source: FE Ohio aggregate hourly MWH consumption 1/1/2019 through 12/31/2021

(29) Calculation: Portion of total on Line 26

(30) Estimated average monthly usage of typical residential customer

(35) Source: Rider GEN Energy Charge in effect June 1, 2022; typical residential customer uses 800 kWh monthly on average

(38-40) Shaping Factor for Shoulder Peak based on average LMP from ATSI zone, 1/1/2019 through 12/31/2021. Shaping Factor for Midday Peak set equal to 2 times the Shaping Factor for Off-Peak, designed to achieve revenue neutrality.

(43) Line 41 - Line 35

**NOTES**

(1) - (25) Source: FE Ohio aggregate hourly MWH consumption 1/1/2019 through 12/31/2021

(29) Calculation: Portion of total on Line 26

(30) Estimated average monthly usage of typical residential customer

(35) Source: Rider GEN Energy Charge in effect June 1, 2022; typical residential customer uses 800 kWh monthly on average

(38-40) Shaping Factor for Shoulder Peak based on average LMP from ATSI zone, 1/1/2019 through 12/31/2021. Shaping Factor for Midday Peak set equal to 2 times the Shaping Factor for Off-Peak, designed to achieve revenue neutrality.

(43) Line 41 - Line 35

**ATSI Zone LMP Data (\$/MWH)**

| Hour<br>Ended | Summer    |               |          |          |          | Winter    |               |          |          |          |          |
|---------------|-----------|---------------|----------|----------|----------|-----------|---------------|----------|----------|----------|----------|
|               | Peak Days | Non-Peak Days | All Days | Midday   | Shoulder | Peak Days | Non-Peak Days | All Days | Midday   | Shoulder |          |
| 1             | \$ 21.65  | \$ 21.32      | \$ 21.55 |          |          | \$ 23.34  | \$ 23.99      | \$ 23.54 |          |          |          |
| 2             | \$ 21.28  | \$ 20.95      | \$ 21.18 |          |          | \$ 23.22  | \$ 23.45      | \$ 23.29 |          |          |          |
| 3             | \$ 19.57  | \$ 20.77      | \$ 19.92 |          |          | \$ 22.09  | \$ 21.81      | \$ 22.01 |          |          |          |
| 4             | \$ 19.64  | \$ 20.78      | \$ 19.97 |          |          | \$ 22.50  | \$ 21.76      | \$ 22.28 |          |          |          |
| 5             | \$ 21.54  | \$ 22.81      | \$ 21.91 |          |          | \$ 24.32  | \$ 22.25      | \$ 23.69 |          |          |          |
| 6             | \$ 22.06  | \$ 22.42      | \$ 22.17 |          |          | \$ 26.02  | \$ 23.86      | \$ 25.37 |          |          |          |
| 7             | \$ 21.82  | \$ 18.55      | \$ 20.86 |          |          | \$ 35.52  | \$ 23.69      | \$ 31.96 |          |          | \$ 35.52 |
| 8             | \$ 22.57  | \$ 18.61      | \$ 21.40 |          |          | \$ 37.29  | \$ 28.78      | \$ 34.73 |          |          | \$ 37.29 |
| 9             | \$ 24.56  | \$ 20.09      | \$ 23.25 |          |          | \$ 32.21  | \$ 26.01      | \$ 30.35 |          |          | \$ 32.21 |
| 10            | \$ 26.20  | \$ 23.43      | \$ 25.38 |          |          | \$ 31.96  | \$ 25.56      | \$ 30.03 |          |          | \$ 31.96 |
| 11            | \$ 30.48  | \$ 25.88      | \$ 29.13 |          |          | \$ 33.06  | \$ 26.01      | \$ 30.94 |          |          | \$ 33.06 |
| 12            | \$ 33.70  | \$ 31.45      | \$ 33.04 |          |          | \$ 32.38  | \$ 26.30      | \$ 30.55 |          |          | \$ 32.38 |
| 13            | \$ 37.18  | \$ 31.68      | \$ 35.56 |          |          | \$ 32.11  | \$ 26.01      | \$ 30.27 |          |          | \$ 32.11 |
| 14            | \$ 40.00  | \$ 32.18      | \$ 37.70 |          |          | \$ 31.12  | \$ 26.24      | \$ 29.65 |          |          | \$ 31.12 |
| 15            | \$ 40.31  | \$ 31.16      | \$ 37.62 | \$ 30.90 | \$ 24.15 | \$ 28.87  | \$ 30.90      |          |          |          |          |
| 16            | \$ 42.73  | \$ 32.28      | \$ 39.66 | \$ 30.90 | \$ 28.32 | \$ 30.12  | \$ 30.90      |          |          |          |          |
| 17            | \$ 49.45  | \$ 39.64      | \$ 46.57 | \$ 33.83 | \$ 28.24 | \$ 32.14  | \$ 33.83      |          |          |          |          |
| 18            | \$ 49.11  | \$ 53.23      | \$ 50.32 | \$ 39.23 | \$ 30.79 | \$ 36.69  | \$ 39.23      |          |          |          |          |
| 19            | \$ 38.07  | \$ 50.27      | \$ 41.65 | \$ 34.42 | \$ 29.30 | \$ 32.88  | \$ 34.42      |          |          |          |          |
| 20            | \$ 31.22  | \$ 32.44      | \$ 31.58 | \$ 33.35 | \$ 28.30 | \$ 31.83  | \$ 33.35      |          |          |          |          |
| 21            | \$ 29.32  | \$ 28.85      | \$ 29.18 | \$ 30.62 | \$ 28.64 | \$ 30.02  |               |          |          |          |          |
| 22            | \$ 27.54  | \$ 26.63      | \$ 27.27 | \$ 28.19 | \$ 25.30 | \$ 27.32  |               |          |          |          |          |
| 23            | \$ 24.64  | \$ 23.59      | \$ 24.33 | \$ 25.31 | \$ 23.34 | \$ 24.71  |               |          |          |          |          |
| 24            | \$ 22.89  | \$ 22.15      | \$ 22.67 | \$ 23.53 | \$ 21.48 | \$ 22.91  |               |          |          |          |          |
| Total         | \$ 29.90  | \$ 27.96      | \$ 29.33 | \$ 45.40 | \$ 30.58 | \$ 29.89  | \$ 25.57      | \$ 28.59 | \$ 33.72 | \$ 33.34 |          |
|               |           |               |          |          |          |           |               |          |          |          |          |
| LMP Factor    |           |               |          | 155%     | 104%     |           |               |          | 118%     | 117%     |          |

**RIDER GEN**  
**Generation Service Rider**

**APPLICABILITY:**

For customers taking the Standard Service Offer electric generation service ("SSO Generation Service") from the Company, the following Standard Service Offer Generation Charges (SSOGC) by rate schedule, will apply, effective for service rendered beginning June 1, 2022, for all kWhs per kWh, unless otherwise noted. For billing purposes, the winter rates shall be applicable during each winter billing period as defined in the Electric Service Regulations.

Capacity costs will be developed based on the results from annual PJM capacity auctions (including incremental auctions) and allocated to each Company and tariff schedule based on the average of coincident peaks, including distribution losses, for the months of June through September of the year prior to the applicable PJM delivery year. The calculated wholesale capacity costs are used to develop capacity charges.

These calculated wholesale capacity costs will be converted to an energy basis and will then be subtracted from the SSO competitive bid process ("CBP") results to develop the non-capacity related energy charges.

**RATE:**

| <u>Capacity Charges</u>   | <u>Summer</u>     | <u>Winter</u>     |
|---------------------------|-------------------|-------------------|
| RS*                       | 0.5442¢           | 0.5442¢           |
| GS                        | 0.4775¢           | 0.4775¢           |
| GP                        | 0.3871¢           | 0.3871¢           |
| GSU                       | 0.3345¢           | 0.3345¢           |
| GT                        | 0.2623¢           | 0.2623¢           |
| STL                       | 0.0000¢           | 0.0000¢           |
| TRF                       | 0.3057¢           | 0.3057¢           |
| POL                       | 0.0000¢           | 0.0000¢           |
| <br><u>Energy Charges</u> | <br><u>Summer</u> | <br><u>Winter</u> |
| RS*                       | 5.9724¢           | 5.0902¢           |
| GS                        | 5.9724¢           | 5.0902¢           |
| GP                        | 5.7655¢           | 4.9139¢           |
| GSU                       | 5.6037¢           | 4.7760¢           |
| GT                        | 5.5981¢           | 4.7713¢           |
| STL                       | 5.9724¢           | 5.0902¢           |
| TRF                       | 5.9724¢           | 5.0902¢           |
| POL                       | 5.9724¢           | 5.0902¢           |

\* Customers participating in the Percentage of Income Payment Plan (PIPP) program shall pay X.XXXX¢, for all kWh per kWh, in lieu of the Rate RS Capacity and Energy Charges shown above.



**RIDER GEN**  
**Generation Service Rider**

**TIME-OF-DAY OPTION (NON-RESIDENTIAL):**

For customers with the appropriate qualifying time-of-day metering, or an advanced meter installed by the Company who elect to be served under the Time-Of-Day Option (Non-Residential), the charge by rate schedule will be as shown below, for all kWhs, per kWh:

**Capacity Charges**

|     | <u>Summer</u>          |                          |                 | <u>Winter</u>          |                          |                 |
|-----|------------------------|--------------------------|-----------------|------------------------|--------------------------|-----------------|
|     | <u>Midday<br/>Peak</u> | <u>Shoulder<br/>Peak</u> | <u>Off-Peak</u> | <u>Midday<br/>Peak</u> | <u>Shoulder<br/>Peak</u> | <u>Off-Peak</u> |
| GS  | 0.4775¢                | 0.4775¢                  | 0.4775¢         | 0.4775¢                | 0.4775¢                  | 0.4775¢         |
| GP  | 0.3871¢                | 0.3871¢                  | 0.3871¢         | 0.3871¢                | 0.3871¢                  | 0.3871¢         |
| GSU | 0.3345¢                | 0.3345¢                  | 0.3345¢         | 0.3345¢                | 0.3345¢                  | 0.3345¢         |
| GT  | 0.2623¢                | 0.2623¢                  | 0.2623¢         | 0.2623¢                | 0.2623¢                  | 0.2623¢         |

**Energy Charges**

|     | <u>Summer</u>          |                          |                 | <u>Winter</u>          |                          |                 |
|-----|------------------------|--------------------------|-----------------|------------------------|--------------------------|-----------------|
|     | <u>Midday<br/>Peak</u> | <u>Shoulder<br/>Peak</u> | <u>Off-Peak</u> | <u>Midday<br/>Peak</u> | <u>Shoulder<br/>Peak</u> | <u>Off-Peak</u> |
| GS  | 8.7824¢                | 5.8129¢                  | 5.1225¢         | 5.8782¢                | 5.8578¢                  | 4.4142¢         |
| GP  | 8.4782¢                | 5.6116¢                  | 4.9451¢         | 5.6746¢                | 5.6549¢                  | 4.2613¢         |
| GSU | 8.2402¢                | 5.4541¢                  | 4.8063¢         | 5.5153¢                | 5.4962¢                  | 4.1417¢         |
| GT  | 8.2320¢                | 5.4486¢                  | 4.8015¢         | 5.5099¢                | 5.4908¢                  | 4.1377¢         |

Midday-peak time shall be noon to 6 p.m. EST, Monday through Friday, excluding holidays.

Shoulder-peak time shall be 6 a.m. to noon and 6 p.m. to 10 p.m. EST, Monday through Friday, excluding holidays.

Holidays are defined as New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Off-Peak shall be all other hours.

A customer may terminate its participation in this time-of-day option at any time effective with the next scheduled meter reading. A qualifying customer may return to the time-of-day option at any time after a hiatus from the time-of-day option of at least one (1) year.

**RIDER GEN**  
**Generation Service Rider**

**TIME-OF-DAY OPTION (RESIDENTIAL):**

For customers with an advanced meter installed by the Company who elect to be served under the Time-Of-Day Option (Residential), the charge by rate schedule will be as shown below, for all kWhs, per kWh:

| <u>Energy Charges</u> | <u>Summer</u>          |                          |                 | <u>Winter</u>          |                          |                 |
|-----------------------|------------------------|--------------------------|-----------------|------------------------|--------------------------|-----------------|
|                       | <u>Midday<br/>Peak</u> | <u>Shoulder<br/>Peak</u> | <u>Off-Peak</u> | <u>Midday<br/>Peak</u> | <u>Shoulder<br/>Peak</u> | <u>Off-Peak</u> |
| RS                    | 9.8401¢                | 6.2268¢                  | 4.9200¢         | 8.0562¢                | 5.9364¢                  | 4.0281¢         |

The Capacity Charges for customers taking service under this option shall be the same as the standard Capacity Charges under Rider GEN.

Midday-peak time shall be 2 p.m. to 6 p.m. EPT, Monday through Friday, excluding holidays.

Shoulder-peak time shall be 6 a.m. to 2 p.m. and 6 p.m. to 8 p.m. EPT, Monday through Friday, excluding holidays.

Holidays are defined as New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Off-peak shall be all other hours.

A customer may terminate its participation in this time-of-day option at any time.

**METERING:**

The customer must arrange for time-of-day metering consistent with the Company's Miscellaneous Charges, Tariff Sheet 75, or have an advanced meter installed by the Company.

**This foregoing document was electronically filed with the Public Utilities  
Commission of Ohio Docketing Information System on**

**4/27/2022 2:12:27 PM**

**in**

**Case No(s). 22-0340-EL-RDR**

Summary: Application Update to Rider Gen electronically filed by Karen A.  
Sweeney on behalf of Ohio Edison Company and Fling, Kristen Ms.