



William P. Cox
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Florida Power & Light Company
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February 22, 2013

Ms. Ann Cole
Division of the Commission Clerk and
Administrative Services
Florida Public Service Commission
Betty Easley Conference Center
2540 Shumard Oak Boulevard, Room 110
Tallahassee, FL 32399-0850

RECEIVED-FPSC
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COMMISSION
CLERK

REDACTED

Re: Docket No. 120314-EQ - Florida Power & Light Company's Petition for Approval of Negotiated Renewable Energy Contracts with U.S. EcoGen

Dear Ms. Cole:

Please find enclosed for filing an original and five (5) copies of Florida Power & Light Company's supplemental responses to Staff's First Data Request Nos. 1, 2 and 8, filed on January 29, 2013 in the above-mentioned docket.

Thank you for your assistance. Please contact me should you or your staff have any additional questions regarding this filing.

Sincerely,

William P. Cox
Senior Attorney
Florida Bar No. 0093531

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WPC/bag
Enclosures
CC: Charles Murphy, Esq.
Jon Moyle, Esq.

DOCUMENT NUMBER-DATE
00993 FEB 22 2013
FPSC-COMMISSION CLERK

Florida Power & Light Company
Docket No. 120314-EQ
Staff's First Data Request
Request No. 1-Supplemental
Page 1 of 1

Q.

Please provide an electronic (.xls) copy of Appendix E/Exhibit TLH-1.

A.

See Attachment No. 1 for an electronic (.xls) copy of the requested Excel spreadsheet.

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DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK

FPL System Cost Including EcoGen PPA - Baseline Fuel 7.45 DR

Docket No. 120314-EQ
Staff's 1st DR No. 1 - Supplemental
Attachment No. 1

| Year | Annual Discount Factor 7.45% | Generation Capital FPL (Millions) | Transmission Capital FPL (Millions) | Generation Fixed O&M (Millions) | Capital Replacement Charges (Millions) | Firm Gas Transport Costs (Millions) | Pipeline Capital Costs (Millions) | USEcoGen Capacity and Energy Costs (Millions) | Misc Unit Costs (Millions) | Total Fixed Costs (Millions) | Systems Net Fuel (Millions) | Startup + VOM Costs (Millions) | Emission Costs (Millions) | Transmission Losses (Millions) | Total VOM/Fuel Costs (Millions) | Total Annual Costs (Millions) | NPV Total Annual Cost (Millions) | NPV Cumulative Total Costs (Millions) | Avg Rate Impact \$/1000 KWH | |
|----------------------------|------------------------------|-----------------------------------|-------------------------------------|---------------------------------|--|-------------------------------------|-----------------------------------|---|----------------------------|------------------------------|-----------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------------|-------------------------------|----------------------------------|---------------------------------------|-----------------------------|--------|
| 2012 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,331 | 99 | -7 | 0 | 2,423 | 2,424 | 2,424 | 2,424 | 2012 | 23.84 |
| 2013 | 0.931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,530 | 105 | -13 | 0 | 2,622 | 2,624 | 2,442 | 4,866 | 2013 | 25.42 |
| 2014 | 0.866 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,830 | 114 | -14 | 0 | 2,930 | 2,931 | 2,538 | 7,404 | 2014 | 27.78 |
| 2015 | 0.806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,161 | 124 | -11 | 0 | 3,274 | 3,275 | 2,640 | 10,044 | 2015 | 30.29 |
| 2016 | 0.750 | 115 | 3 | 6 | 16 | 252 | 0 | 0 | 11 | 404 | 3,366 | 126 | -9 | 0 | 3,483 | 3,887 | 2,916 | 12,960 | 2016 | 35.40 |
| 2017 | 0.698 | 192 | 5 | 10 | 29 | 274 | 0 | 0 | 3 | 515 | 3,705 | 127 | -9 | 0 | 3,823 | 4,338 | 3,028 | 15,988 | 2017 | 39.04 |
| 2018 | 0.650 | 185 | 5 | 11 | 30 | 274 | 0 | 0 | 3 | 508 | 4,226 | 133 | -9 | 0 | 4,350 | 4,858 | 3,157 | 19,145 | 2018 | 43.25 |
| 2019 | 0.605 | 179 | 5 | 11 | 31 | 274 | 0 | 88 | 3 | 591 | 4,554 | 138 | -9 | 0 | 4,683 | 5,273 | 3,189 | 22,334 | 2019 | 46.39 |
| 2020 | 0.563 | 172 | 5 | 11 | 32 | 413 | 0 | 98 | 3 | 734 | 4,937 | 145 | -10 | 0 | 5,072 | 5,806 | 3,268 | 25,602 | 2020 | 50.05 |
| 2021 | 0.524 | 166 | 5 | 12 | 33 | 426 | 0 | 100 | 3 | 743 | 5,402 | 148 | -9 | 0 | 5,541 | 6,284 | 3,291 | 28,893 | 2021 | 52.89 |
| 2022 | 0.487 | 159 | 4 | 12 | 34 | 426 | 0 | 101 | 6 | 742 | 5,489 | 153 | -10 | 0 | 5,632 | 6,374 | 3,107 | 32,000 | 2022 | 52.37 |
| 2023 | 0.454 | 153 | 4 | 12 | 35 | 426 | 0 | 104 | 3 | 737 | 5,499 | 158 | 353 | 0 | 6,010 | 6,747 | 3,061 | 35,061 | 2023 | 54.28 |
| 2024 | 0.422 | 147 | 4 | 12 | 36 | 426 | 0 | 105 | 3 | 734 | 5,825 | 166 | 413 | 0 | 6,404 | 7,138 | 3,014 | 38,075 | 2024 | 56.31 |
| 2025 | 0.393 | 296 | 15 | 20 | 58 | 426 | 0 | 107 | 7 | 929 | 6,141 | 176 | 462 | 0 | 6,779 | 7,709 | 3,029 | 41,104 | 2025 | 59.64 |
| 2026 | 0.366 | 473 | 22 | 30 | 87 | 426 | 0 | 109 | 3 | 1,150 | 6,519 | 189 | 536 | 0 | 7,244 | 8,394 | 3,069 | 44,173 | 2026 | 63.69 |
| 2027 | 0.340 | 593 | 21 | 37 | 109 | 426 | 0 | 110 | 3 | 1,300 | 6,994 | 198 | 636 | 0 | 7,828 | 9,128 | 3,106 | 47,279 | 2027 | 68.07 |
| 2028 | 0.317 | 712 | 21 | 45 | 132 | 426 | 0 | 112 | 4 | 1,451 | 7,248 | 206 | 724 | 0 | 8,178 | 9,630 | 3,050 | 50,329 | 2028 | 70.62 |
| 2029 | 0.295 | 830 | 20 | 53 | 157 | 426 | 0 | 113 | 4 | 1,604 | 7,648 | 215 | 844 | 0 | 8,707 | 10,311 | 3,039 | 53,369 | 2029 | 74.42 |
| 2030 | 0.274 | 949 | 19 | 62 | 183 | 426 | 0 | 115 | 8 | 1,762 | 8,160 | 227 | 997 | 0 | 9,384 | 11,146 | 3,058 | 56,427 | 2030 | 79.24 |
| 2031 | 0.255 | 1,067 | 18 | 71 | 211 | 426 | 0 | 117 | 4 | 1,914 | 8,567 | 238 | 1,137 | 0 | 9,942 | 11,855 | 3,027 | 59,453 | 2031 | 82.90 |
| 2032 | 0.238 | 1,376 | 18 | 89 | 266 | 426 | 0 | 119 | 4 | 2,297 | 9,193 | 248 | 1,339 | 0 | 10,780 | 13,077 | 3,107 | 62,561 | 2032 | 89.95 |
| 2033 | 0.221 | 1,719 | 17 | 110 | 330 | 426 | 0 | 120 | 4 | 2,726 | 10,304 | 277 | 1,653 | 0 | 12,234 | 14,961 | 3,308 | 65,869 | 2033 | 101.22 |
| 2034 | 0.206 | 1,891 | 16 | 124 | 374 | 426 | 0 | 122 | 4 | 2,957 | 10,879 | 303 | 1,897 | 0 | 13,079 | 16,037 | 3,300 | 69,169 | 2034 | 106.72 |
| 2035 | 0.192 | 2,095 | 16 | 140 | 425 | 426 | 0 | 124 | 4 | 3,230 | 11,409 | 325 | 2,141 | 0 | 13,875 | 17,104 | 3,276 | 72,446 | 2035 | 111.96 |
| 2036 | 0.178 | 2,480 | 15 | 165 | 503 | 426 | 0 | 126 | 4 | 3,720 | 12,452 | 365 | 2,539 | 0 | 15,356 | 19,076 | 3,400 | 75,846 | 2036 | 122.81 |
| 2037 | 0.166 | 2,720 | 14 | 185 | 567 | 426 | 0 | 128 | 7 | 4,047 | 13,050 | 386 | 2,840 | 0 | 16,276 | 20,324 | 3,372 | 79,218 | 2037 | 128.70 |
| 2038 | 0.154 | 2,806 | 14 | 198 | 611 | 426 | 0 | 130 | 5 | 4,189 | 13,701 | 406 | 3,191 | 0 | 17,298 | 21,487 | 3,317 | 82,535 | 2038 | 133.84 |
| 2039 | 0.144 | 2,892 | 13 | 212 | 657 | 426 | 0 | 132 | 5 | 4,337 | 14,384 | 433 | 3,551 | 0 | 18,368 | 22,705 | 3,262 | 85,798 | 2039 | 139.11 |
| 2040 | 0.134 | 2,979 | 12 | 227 | 705 | 426 | 0 | 135 | 8 | 4,492 | 14,953 | 456 | 3,899 | 0 | 19,308 | 23,800 | 3,183 | 88,980 | 2040 | 143.43 |
| 2041 | 0.124 | 3,192 | 12 | 247 | 773 | 426 | 0 | 137 | 5 | 4,792 | 15,636 | 481 | 4,361 | 0 | 20,478 | 25,270 | 3,145 | 92,125 | 2041 | 149.80 |
| 2042 | 0.116 | 3,363 | 11 | 267 | 839 | 426 | 0 | 139 | 5 | 5,052 | 16,367 | 505 | 4,866 | 0 | 21,738 | 26,790 | 3,103 | 95,228 | 2042 | 156.21 |
| 2043 | 0.108 | 3,708 | 11 | 295 | 933 | 426 | 0 | 142 | 5 | 5,520 | 17,369 | 535 | 5,541 | 0 | 23,445 | 28,965 | 3,122 | 98,350 | 2043 | 166.13 |
| 2044 | 0.100 | 3,966 | 11 | 322 | 1,020 | 426 | 0 | 144 | 5 | 5,893 | 18,214 | 562 | 6,212 | 0 | 24,988 | 30,881 | 3,098 | 101,448 | 2044 | 174.23 |
| 2045 | 0.093 | 4,172 | 10 | 346 | 1,103 | 426 | 0 | 147 | 5 | 6,210 | 18,884 | 590 | 6,865 | 0 | 26,339 | 32,549 | 3,039 | 104,487 | 2045 | 180.64 |
| 2046 | 0.087 | 4,309 | 10 | 370 | 1,185 | 426 | 0 | 149 | 6 | 6,454 | 19,602 | 616 | 7,613 | 0 | 27,831 | 34,285 | 2,979 | 107,467 | 2046 | 187.16 |
| 2047 | 0.081 | 4,504 | 10 | 396 | 1,276 | 426 | 0 | 152 | 6 | 6,770 | 20,339 | 642 | 8,425 | 0 | 29,406 | 36,176 | 2,925 | 110,392 | 2047 | 194.25 |
| 2048 | 0.075 | 4,672 | 9 | 422 | 1,366 | 426 | 0 | 155 | 0 | 7,050 | 21,110 | 675 | 9,312 | 0 | 31,097 | 38,148 | 2,871 | 113,263 | 2048 | 201.50 |
| 2049 | 0.070 | 4,892 | 9 | 451 | 1,466 | 426 | 0 | 158 | 0 | 7,401 | 21,897 | 702 | 10,277 | 0 | 32,876 | 40,278 | 2,821 | 116,084 | 2049 | 209.27 |
| 2050 | 0.065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116,084 | 2050 | 0.00 |
| [1] Total NPV = | | \$9,381 | \$101 | \$686 | \$2,109 | \$3,775 | \$0 | \$880 | \$49 | \$16,981 | \$84,916 | \$2,634 | \$11,554 | \$0 | \$99,103 | \$116,084 | USEcoGen | | | |
| [2] Total NPV = | | \$9,451 | \$101 | \$690 | \$2,124 | \$3,775 | \$0 | \$0 | \$52 | \$16,193 | \$85,746 | \$2,640 | \$11,665 | \$0 | \$100,051 | \$116,243 | W/O USEcoGen | | | |
| Difference [1] - [2] = | | (\$70) | \$0 | (\$5) | (\$14) | \$0 | \$0 | \$880 | (\$3) | \$788 | (\$830) | (\$6) | (\$111) | | (\$947) | (\$159) | | | | |

FPL System Cost Without EcoGen PPA - Baseline Fuel 7.45% DR

Docket No. 120314-EQ
Staff's 1st DR No. 1 - Supplemental
Attachment No. 1

| Year | Annual Discount Factor 7.450% | Generation Capital FPL (Millions) | Transmission Capital FPL (Millions) | Generation Fixed O&M (Millions) | Capital Replacement Charges (Millions) | Firm Gas Transport Costs (Millions) | Pipeline Capital Costs (Millions) | Misc System Costs (Millions) | Misc Unit Costs (Millions) | Total | | Startup +VOM Costs (Millions) | Emission Costs (Millions) | Transmission Losses (Millions) | Total | | NPV Total Annual Cost (Millions) | NPV Cumulative Total Costs (Millions) | Avg Rate Impact \$/1000 KWH | |
|-------------|-------------------------------|-----------------------------------|-------------------------------------|---------------------------------|--|-------------------------------------|-----------------------------------|------------------------------|----------------------------|------------------------|----------------------------|-------------------------------|---------------------------|--------------------------------|---------------------------|-------------------------|----------------------------------|---------------------------------------|-----------------------------|--------|
| | | | | | | | | | | Fixed Costs (Millions) | System Net Fuel (Millions) | | | | VOM/Fuel Costs (Millions) | Annual Costs (Millions) | | | | |
| 2012 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,331 | 99 | -7 | 0 | 2,423 | 2,424 | 2,424 | 2,424 | 2012 | 23.84 |
| 2013 | 0.931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,530 | 105 | -13 | 0 | 2,622 | 2,624 | 2,442 | 4,866 | 2013 | 25.42 |
| 2014 | 0.866 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,830 | 114 | -14 | 0 | 2,930 | 2,931 | 2,538 | 7,404 | 2014 | 27.78 |
| 2015 | 0.806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,161 | 124 | -11 | 0 | 3,274 | 3,275 | 2,640 | 10,044 | 2015 | 30.29 |
| 2016 | 0.750 | 115 | 3 | 6 | 16 | 252 | 0 | 0 | 11 | 404 | 3,366 | 126 | -9 | 0 | 3,483 | 3,887 | 2,916 | 12,960 | 2016 | 35.40 |
| 2017 | 0.698 | 192 | 5 | 10 | 29 | 274 | 0 | 0 | 3 | 515 | 3,705 | 127 | -9 | 0 | 3,823 | 4,338 | 3,028 | 15,988 | 2017 | 39.04 |
| 2018 | 0.650 | 185 | 5 | 11 | 30 | 274 | 0 | 0 | 3 | 508 | 4,226 | 133 | -9 | 0 | 4,350 | 4,858 | 3,157 | 19,145 | 2018 | 43.25 |
| 2019 | 0.605 | 179 | 5 | 11 | 31 | 274 | 0 | 0 | 3 | 503 | 4,625 | 138 | -9 | 0 | 4,754 | 5,256 | 3,179 | 22,324 | 2019 | 46.24 |
| 2020 | 0.563 | 172 | 5 | 11 | 32 | 413 | 0 | 0 | 3 | 636 | 5,021 | 146 | -9 | 0 | 5,158 | 5,793 | 3,261 | 25,584 | 2020 | 49.94 |
| 2021 | 0.524 | 166 | 5 | 12 | 33 | 426 | 0 | 0 | 3 | 643 | 5,488 | 148 | -9 | 0 | 5,627 | 6,270 | 3,284 | 28,868 | 2021 | 52.78 |
| 2022 | 0.487 | 159 | 4 | 12 | 34 | 426 | 0 | 0 | 6 | 641 | 5,583 | 153 | -10 | 0 | 5,726 | 6,367 | 3,104 | 31,972 | 2022 | 52.31 |
| 2023 | 0.454 | 153 | 4 | 12 | 35 | 426 | 0 | 0 | 3 | 634 | 5,591 | 158 | 358 | 0 | 6,107 | 6,741 | 3,058 | 35,030 | 2023 | 54.24 |
| 2024 | 0.422 | 147 | 4 | 12 | 36 | 426 | 0 | 0 | 3 | 629 | 5,920 | 167 | 419 | 0 | 6,506 | 7,135 | 3,013 | 38,043 | 2024 | 56.28 |
| 2025 | 0.393 | 296 | 15 | 20 | 58 | 426 | 0 | 0 | 7 | 822 | 6,241 | 177 | 470 | 0 | 6,888 | 7,710 | 3,029 | 41,072 | 2025 | 59.65 |
| 2026 | 0.366 | 473 | 22 | 30 | 87 | 426 | 0 | 0 | 3 | 1,041 | 6,621 | 188 | 544 | 0 | 7,353 | 8,394 | 3,070 | 44,142 | 2026 | 63.70 |
| 2027 | 0.340 | 593 | 21 | 37 | 109 | 426 | 0 | 0 | 3 | 1,190 | 7,102 | 199 | 645 | 0 | 7,946 | 9,136 | 3,109 | 47,251 | 2027 | 68.13 |
| 2028 | 0.317 | 712 | 21 | 45 | 132 | 426 | 0 | 0 | 4 | 1,339 | 7,357 | 206 | 735 | 0 | 8,298 | 9,637 | 3,052 | 50,303 | 2028 | 70.67 |
| 2029 | 0.295 | 830 | 20 | 53 | 157 | 426 | 0 | 0 | 4 | 1,490 | 7,759 | 216 | 855 | 0 | 8,830 | 10,320 | 3,042 | 53,346 | 2029 | 74.49 |
| 2030 | 0.274 | 949 | 19 | 62 | 183 | 426 | 0 | 0 | 19 | 1,658 | 8,273 | 228 | 1,011 | 0 | 9,512 | 11,170 | 3,064 | 56,410 | 2030 | 79.41 |
| 2031 | 0.255 | 1,067 | 18 | 71 | 211 | 426 | 0 | 0 | 4 | 1,797 | 8,684 | 240 | 1,152 | 0 | 10,076 | 11,873 | 3,031 | 59,441 | 2031 | 83.02 |
| 2032 | 0.238 | 1,376 | 18 | 89 | 266 | 426 | 0 | 0 | 4 | 2,178 | 9,314 | 250 | 1,356 | 0 | 10,920 | 13,098 | 3,112 | 62,553 | 2032 | 90.10 |
| 2033 | 0.221 | 1,719 | 17 | 110 | 330 | 426 | 0 | 0 | 4 | 2,606 | 10,428 | 278 | 1,672 | 0 | 12,378 | 14,984 | 3,314 | 65,867 | 2033 | 101.37 |
| 2034 | 0.206 | 1,991 | 16 | 129 | 388 | 426 | 0 | 0 | 4 | 2,955 | 10,979 | 304 | 1,913 | 0 | 13,196 | 16,151 | 3,324 | 69,191 | 2034 | 107.48 |
| 2035 | 0.192 | 2,159 | 16 | 143 | 435 | 426 | 0 | 0 | 4 | 3,184 | 11,531 | 326 | 2,160 | 0 | 14,017 | 17,200 | 3,295 | 72,485 | 2035 | 112.58 |
| 2036 | 0.178 | 2,469 | 15 | 165 | 503 | 426 | 0 | 0 | 4 | 3,583 | 12,585 | 367 | 2,562 | 0 | 15,514 | 19,097 | 3,404 | 75,889 | 2036 | 122.95 |
| 2037 | 0.166 | 2,709 | 14 | 185 | 567 | 426 | 0 | 0 | 7 | 3,908 | 13,184 | 389 | 2,867 | 0 | 16,440 | 20,349 | 3,376 | 79,265 | 2037 | 128.86 |
| 2038 | 0.154 | 2,795 | 14 | 198 | 611 | 426 | 0 | 0 | 5 | 4,048 | 13,836 | 408 | 3,222 | 0 | 17,466 | 21,514 | 3,322 | 82,587 | 2038 | 134.01 |
| 2039 | 0.144 | 2,882 | 13 | 212 | 657 | 426 | 0 | 0 | 5 | 4,194 | 14,523 | 435 | 3,586 | 0 | 18,544 | 22,738 | 3,267 | 85,854 | 2039 | 139.31 |
| 2040 | 0.134 | 3,090 | 12 | 232 | 722 | 426 | 0 | 0 | 8 | 4,490 | 15,069 | 456 | 3,929 | 0 | 19,454 | 23,944 | 3,202 | 89,056 | 2040 | 144.30 |
| 2041 | 0.124 | 3,259 | 12 | 251 | 785 | 426 | 0 | 0 | 5 | 4,738 | 15,772 | 483 | 4,396 | 0 | 20,651 | 25,389 | 3,160 | 92,216 | 2041 | 150.51 |
| 2042 | 0.116 | 3,341 | 11 | 267 | 839 | 426 | 0 | 0 | 5 | 4,890 | 16,514 | 507 | 4,912 | 0 | 21,933 | 26,823 | 3,107 | 95,323 | 2042 | 156.40 |
| 2043 | 0.108 | 3,686 | 11 | 295 | 933 | 426 | 0 | 0 | 5 | 5,357 | 17,517 | 536 | 5,591 | 0 | 23,644 | 29,001 | 3,126 | 98,449 | 2043 | 166.34 |
| 2044 | 0.100 | 4,080 | 11 | 327 | 1,039 | 426 | 0 | 0 | 5 | 5,888 | 18,343 | 564 | 6,253 | 0 | 25,160 | 31,048 | 3,115 | 101,564 | 2044 | 175.17 |
| 2045 | 0.093 | 4,238 | 10 | 350 | 1,117 | 426 | 0 | 0 | 5 | 6,147 | 19,023 | 592 | 6,920 | 0 | 26,535 | 32,682 | 3,051 | 104,615 | 2045 | 181.37 |
| 2046 | 0.087 | 4,274 | 10 | 370 | 1,185 | 426 | 0 | 0 | 6 | 6,270 | 19,759 | 617 | 7,677 | 0 | 28,053 | 34,323 | 2,982 | 107,597 | 2046 | 187.36 |
| 2047 | 0.081 | 4,470 | 10 | 396 | 1,276 | 426 | 0 | 0 | 6 | 6,584 | 20,503 | 645 | 8,492 | 0 | 29,640 | 36,224 | 2,929 | 110,527 | 2047 | 194.51 |
| 2048 | 0.075 | 4,791 | 9 | 429 | 1,387 | 426 | 0 | 0 | 0 | 7,043 | 21,240 | 673 | 9,371 | 0 | 31,284 | 38,327 | 2,885 | 113,411 | 2048 | 202.44 |
| 2049 | 0.070 | 4,956 | 9 | 456 | 1,482 | 426 | 0 | 0 | 0 | 7,329 | 22,045 | 704 | 10,356 | 0 | 33,105 | 40,434 | 2,832 | 116,243 | 2049 | 210.08 |
| 2050 | 0.065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116,243 | 2050 | 0.00 |
| Total NPV = | | \$9,451 | \$101 | \$690 | \$2,124 | \$3,775 | \$0 | \$0 | \$52 | \$16,193 | \$85,746 | \$2,640 | \$11,665 | \$0 | \$100,051 | \$116,243 | | | | |

Florida Power & Light Company
Docket No. 120314-EQ
Staff's First Data Request
Request No. 2-Supplemental
Page 1 of 1

Q.

Please provide two alternative versions of the cost-effectiveness analysis performed in Appendix E/Exhibit TLH-1, using a low fuel cost scenario and a high fuel cost scenario.

A.

See Attachment No. 1 to this data request.

FPL System Cost Including EcoGen PPA - Baseline Fuel 7.45 DR

Docket No. 120314-EQ
Staff's 1st DR No. 2 - Supplemental
Attachment No. 1

| Year | Annual Discount Factor 7.450% | Generation Capital FPL (Millions) | Transmission Capital FPL (Millions) | Generation Fixed O&M (Millions) | Capital Replacement Charges (Millions) | Firm Gas Transport Costs (Millions) | Pipeline Capital Costs (Millions) | USEcoGen Capacity and Energy Costs (Millions) | Misc Unit Costs (Millions) | Total Fixed Costs (Millions) | System Net Fuel (Millions) | Startup + VOM Costs (Millions) | Emission Costs (Millions) | Transmission Losses (Millions) | Total VOM/Fuel Costs (Millions) | Total Annual Costs (Millions) | NPV Total Annual Cost (Millions) | NPV Cumulative Total Costs (Millions) | Avg Rate Inmpact \$/1000 KWH | |
|----------------------------|-------------------------------|-----------------------------------|-------------------------------------|---------------------------------|--|-------------------------------------|-----------------------------------|---|----------------------------|------------------------------|----------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------------|-------------------------------|----------------------------------|---------------------------------------|------------------------------|--------|
| 2012 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,331 | 99 | -7 | 0 | 2,423 | 2,424 | 2,424 | 2,424 | 2012 | 23.84 |
| 2013 | 0.931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,530 | 105 | -13 | 0 | 2,622 | 2,624 | 2,442 | 4,866 | 2013 | 25.42 |
| 2014 | 0.866 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,830 | 114 | -14 | 0 | 2,930 | 2,931 | 2,538 | 7,404 | 2014 | 27.78 |
| 2015 | 0.806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,161 | 124 | -11 | 0 | 3,274 | 3,275 | 2,640 | 10,044 | 2015 | 30.29 |
| 2016 | 0.750 | 115 | 3 | 6 | 16 | 252 | 0 | 0 | 11 | 404 | 3,366 | 126 | -9 | 0 | 3,483 | 3,887 | 2,916 | 12,960 | 2016 | 35.40 |
| 2017 | 0.698 | 192 | 5 | 10 | 29 | 274 | 0 | 0 | 3 | 515 | 3,705 | 127 | -9 | 0 | 3,823 | 4,338 | 3,028 | 15,988 | 2017 | 39.04 |
| 2018 | 0.650 | 185 | 5 | 11 | 30 | 274 | 0 | 0 | 3 | 508 | 4,226 | 133 | -9 | 0 | 4,350 | 4,858 | 3,157 | 19,145 | 2018 | 43.25 |
| 2019 | 0.605 | 179 | 5 | 11 | 31 | 274 | 0 | 88 | 3 | 591 | 4,554 | 138 | -9 | 0 | 4,683 | 5,273 | 3,189 | 22,334 | 2019 | 46.39 |
| 2020 | 0.563 | 172 | 5 | 11 | 32 | 413 | 0 | 98 | 3 | 734 | 4,937 | 145 | -10 | 0 | 5,072 | 5,806 | 3,268 | 25,602 | 2020 | 50.05 |
| 2021 | 0.524 | 166 | 5 | 12 | 33 | 426 | 0 | 100 | 3 | 743 | 5,402 | 148 | -9 | 0 | 5,541 | 6,284 | 3,291 | 28,893 | 2021 | 52.89 |
| 2022 | 0.487 | 159 | 4 | 12 | 34 | 426 | 0 | 101 | 6 | 742 | 5,489 | 153 | -10 | 0 | 5,632 | 6,374 | 3,107 | 32,000 | 2022 | 52.37 |
| 2023 | 0.454 | 153 | 4 | 12 | 35 | 426 | 0 | 104 | 3 | 737 | 5,499 | 158 | 353 | 0 | 6,010 | 6,747 | 3,061 | 35,061 | 2023 | 54.28 |
| 2024 | 0.422 | 147 | 4 | 12 | 36 | 426 | 0 | 105 | 3 | 734 | 5,825 | 166 | 413 | 0 | 6,404 | 7,138 | 3,014 | 38,075 | 2024 | 56.31 |
| 2025 | 0.393 | 296 | 15 | 20 | 58 | 426 | 0 | 107 | 7 | 929 | 6,141 | 176 | 462 | 0 | 6,779 | 7,709 | 3,029 | 41,104 | 2025 | 59.64 |
| 2026 | 0.366 | 473 | 22 | 30 | 87 | 426 | 0 | 109 | 3 | 1,150 | 6,519 | 189 | 536 | 0 | 7,244 | 8,394 | 3,069 | 44,173 | 2026 | 63.69 |
| 2027 | 0.340 | 593 | 21 | 37 | 109 | 426 | 0 | 110 | 3 | 1,300 | 6,994 | 198 | 636 | 0 | 7,828 | 9,128 | 3,106 | 47,279 | 2027 | 68.07 |
| 2028 | 0.317 | 712 | 21 | 45 | 132 | 426 | 0 | 112 | 4 | 1,451 | 7,248 | 206 | 724 | 0 | 8,178 | 9,630 | 3,050 | 50,329 | 2028 | 70.62 |
| 2029 | 0.295 | 830 | 20 | 53 | 157 | 426 | 0 | 113 | 4 | 1,604 | 7,648 | 215 | 844 | 0 | 8,707 | 10,311 | 3,039 | 53,369 | 2029 | 74.42 |
| 2030 | 0.274 | 949 | 19 | 62 | 183 | 426 | 0 | 115 | 8 | 1,762 | 8,160 | 227 | 997 | 0 | 9,384 | 11,146 | 3,058 | 56,427 | 2030 | 79.24 |
| 2031 | 0.255 | 1,067 | 18 | 71 | 211 | 426 | 0 | 117 | 4 | 1,914 | 8,567 | 238 | 1,137 | 0 | 9,942 | 11,855 | 3,077 | 59,453 | 2031 | 82.90 |
| 2032 | 0.238 | 1,376 | 18 | 89 | 266 | 426 | 0 | 119 | 4 | 2,297 | 9,193 | 248 | 1,339 | 0 | 10,780 | 13,077 | 3,107 | 62,561 | 2032 | 89.95 |
| 2033 | 0.221 | 1,719 | 17 | 110 | 330 | 426 | 0 | 120 | 4 | 2,726 | 10,304 | 277 | 1,653 | 0 | 12,234 | 14,961 | 3,308 | 65,869 | 2033 | 101.22 |
| 2034 | 0.206 | 1,891 | 16 | 124 | 374 | 426 | 0 | 122 | 4 | 2,957 | 10,879 | 303 | 1,897 | 0 | 13,079 | 16,037 | 3,300 | 69,169 | 2034 | 106.72 |
| 2035 | 0.192 | 2,095 | 16 | 140 | 425 | 426 | 0 | 124 | 4 | 3,230 | 11,409 | 325 | 2,141 | 0 | 13,875 | 17,104 | 3,276 | 72,446 | 2035 | 111.96 |
| 2036 | 0.178 | 2,480 | 15 | 165 | 503 | 426 | 0 | 126 | 4 | 3,720 | 12,452 | 365 | 2,539 | 0 | 15,356 | 19,076 | 3,400 | 75,846 | 2036 | 122.81 |
| 2037 | 0.166 | 2,720 | 14 | 185 | 567 | 426 | 0 | 128 | 7 | 4,047 | 13,050 | 386 | 2,840 | 0 | 16,276 | 20,324 | 3,372 | 79,218 | 2037 | 128.70 |
| 2038 | 0.154 | 2,806 | 14 | 198 | 611 | 426 | 0 | 130 | 5 | 4,189 | 13,701 | 406 | 3,191 | 0 | 17,298 | 21,487 | 3,317 | 82,535 | 2038 | 133.84 |
| 2039 | 0.144 | 2,892 | 13 | 212 | 657 | 426 | 0 | 132 | 5 | 4,337 | 14,384 | 433 | 3,551 | 0 | 18,368 | 22,705 | 3,262 | 85,798 | 2039 | 139.11 |
| 2040 | 0.134 | 2,979 | 12 | 227 | 705 | 426 | 0 | 135 | 8 | 4,492 | 14,953 | 456 | 3,899 | 0 | 19,308 | 23,800 | 3,183 | 88,980 | 2040 | 143.43 |
| 2041 | 0.124 | 3,192 | 12 | 247 | 773 | 426 | 0 | 137 | 5 | 4,792 | 15,636 | 481 | 4,361 | 0 | 20,478 | 25,270 | 3,145 | 92,125 | 2041 | 149.80 |
| 2042 | 0.116 | 3,363 | 11 | 267 | 839 | 426 | 0 | 139 | 5 | 5,052 | 16,367 | 505 | 4,866 | 0 | 21,738 | 26,790 | 3,103 | 95,228 | 2042 | 156.21 |
| 2043 | 0.108 | 3,708 | 11 | 295 | 933 | 426 | 0 | 142 | 5 | 5,520 | 17,369 | 535 | 5,541 | 0 | 23,445 | 28,965 | 3,122 | 98,350 | 2043 | 166.13 |
| 2044 | 0.100 | 3,966 | 11 | 322 | 1,020 | 426 | 0 | 144 | 5 | 5,893 | 18,214 | 562 | 6,212 | 0 | 24,988 | 30,881 | 3,098 | 101,448 | 2044 | 174.23 |
| 2045 | 0.093 | 4,172 | 10 | 346 | 1,103 | 426 | 0 | 147 | 5 | 6,210 | 18,884 | 590 | 6,865 | 0 | 26,339 | 32,549 | 3,039 | 104,487 | 2045 | 180.64 |
| 2046 | 0.087 | 4,309 | 10 | 370 | 1,185 | 426 | 0 | 149 | 6 | 6,454 | 19,602 | 616 | 7,613 | 0 | 27,831 | 34,285 | 2,979 | 107,467 | 2046 | 187.16 |
| 2047 | 0.081 | 4,504 | 10 | 396 | 1,276 | 426 | 0 | 152 | 6 | 6,770 | 20,339 | 642 | 8,425 | 0 | 29,406 | 36,176 | 2,925 | 110,392 | 2047 | 194.25 |
| 2048 | 0.075 | 4,672 | 9 | 422 | 1,366 | 426 | 0 | 155 | 0 | 7,050 | 21,110 | 675 | 9,312 | 0 | 31,097 | 38,148 | 2,871 | 113,263 | 2048 | 201.50 |
| 2049 | 0.070 | 4,892 | 9 | 451 | 1,466 | 426 | 0 | 158 | 0 | 7,401 | 21,897 | 702 | 10,277 | 0 | 32,876 | 40,278 | 2,821 | 116,084 | 2049 | 209.27 |
| 2050 | 0.065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116,084 | 2050 | 0.00 |
| [1] Total NPV = | | \$9,381 | \$101 | \$686 | \$2,109 | \$3,775 | \$0 | \$880 | \$49 | \$16,981 | \$84,916 | \$2,634 | \$11,554 | \$0 | \$99,103 | \$116,084 | | | USEcoGen | |
| [2] Total NPV = | | \$9,451 | \$101 | \$690 | \$2,124 | \$3,775 | \$0 | \$0 | \$52 | \$16,193 | \$85,746 | \$2,640 | \$11,665 | \$0 | \$100,051 | \$116,243 | | | W/O USEcoGen | |
| Difference [1] - [2] = | | (\$70) | \$0 | (\$5) | (\$14) | \$0 | \$0 | \$880 | (\$3) | \$788 | (\$830) | (\$6) | (\$111) | | (\$947) | (\$159) | | | | |

FPL System Cost Without EcoGen PPA - Baseline Fuel 7.45% DR

Docket No. 120314-EQ
Staff's 1st DR No. 2 - Supplemental
Attachment No. 1

| Year | Annual Discount Factor 7.450% | Generation | | Transmission | | Capital | | Firm Gas | Pipeline | Total | | Startup | Emulsion | Transmission | Total | | NPV | NPV | Avg Rate Impact \$/1000 KWH | | |
|-------------|-------------------------------|------------------------|------------------------|---------------------------------|--------------------------------|----------------------------|--------------------------|------------------------------|----------------------------|------------------------|----------------------------|------------------------|---------------------------|--------------------------------|---------------------------|-------------------------|------------------------------|-----------------------------------|-----------------------------|--------|-------|
| | | Capital FPL (Millions) | Capital FPL (Millions) | Generation Fixed O&M (Millions) | Replacement Charges (Millions) | Transport Costs (Millions) | Capital Costs (Millions) | Misc System Costs (Millions) | Misc Unit Costs (Millions) | Fixed Costs (Millions) | System Net Fuel (Millions) | + VOM Costs (Millions) | Emulsion Costs (Millions) | Transmission Losses (Millions) | VOM/Fuel Costs (Millions) | Annual Costs (Millions) | Total Annual Cost (Millions) | Cumulative Total Costs (Millions) | | | |
| 2012 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,331 | 99 | -7 | 0 | 2,423 | 2,424 | 2,424 | 2,424 | 2012 | 23.84 |
| 2013 | 0.931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,530 | 105 | -13 | 0 | 2,622 | 2,624 | 2,442 | 4,866 | 2013 | 25.42 |
| 2014 | 0.866 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,830 | 114 | -14 | 0 | 2,930 | 2,931 | 2,538 | 7,404 | 2014 | 27.78 |
| 2015 | 0.806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,161 | 124 | -11 | 0 | 3,274 | 3,275 | 2,640 | 10,044 | 2015 | 30.29 |
| 2016 | 0.750 | 115 | 3 | 6 | 16 | 252 | 0 | 0 | 11 | 404 | 3,366 | 126 | -9 | 0 | 3,483 | 3,887 | 2,916 | 12,960 | 2016 | 35.40 | |
| 2017 | 0.698 | 192 | 5 | 10 | 29 | 274 | 0 | 0 | 3 | 515 | 3,705 | 127 | -9 | 0 | 3,823 | 4,338 | 3,028 | 15,988 | 2017 | 39.04 | |
| 2018 | 0.650 | 185 | 5 | 11 | 30 | 274 | 0 | 0 | 3 | 508 | 4,226 | 133 | -9 | 0 | 4,350 | 4,858 | 3,157 | 19,145 | 2018 | 43.25 | |
| 2019 | 0.605 | 179 | 5 | 11 | 31 | 274 | 0 | 0 | 3 | 503 | 4,625 | 138 | -9 | 0 | 4,754 | 5,256 | 3,179 | 22,324 | 2019 | 46.24 | |
| 2020 | 0.563 | 172 | 5 | 11 | 32 | 413 | 0 | 0 | 3 | 636 | 5,021 | 146 | -9 | 0 | 5,158 | 5,793 | 3,261 | 25,584 | 2020 | 49.94 | |
| 2021 | 0.524 | 166 | 5 | 12 | 33 | 426 | 0 | 0 | 3 | 643 | 5,488 | 148 | -9 | 0 | 5,627 | 6,270 | 3,284 | 28,868 | 2021 | 52.78 | |
| 2022 | 0.487 | 159 | 4 | 12 | 34 | 426 | 0 | 0 | 6 | 641 | 5,583 | 153 | -10 | 0 | 5,726 | 6,367 | 3,104 | 31,972 | 2022 | 52.31 | |
| 2023 | 0.454 | 153 | 4 | 12 | 35 | 426 | 0 | 0 | 3 | 634 | 5,591 | 158 | 358 | 0 | 6,107 | 6,741 | 3,058 | 35,030 | 2023 | 54.24 | |
| 2024 | 0.422 | 147 | 4 | 12 | 36 | 426 | 0 | 0 | 3 | 629 | 5,920 | 167 | 419 | 0 | 6,506 | 7,135 | 3,013 | 38,043 | 2024 | 56.28 | |
| 2025 | 0.393 | 296 | 15 | 20 | 58 | 426 | 0 | 0 | 7 | 822 | 6,241 | 177 | 470 | 0 | 6,888 | 7,710 | 3,029 | 41,072 | 2025 | 59.65 | |
| 2026 | 0.366 | 473 | 22 | 30 | 87 | 426 | 0 | 0 | 3 | 1,041 | 6,621 | 188 | 544 | 0 | 7,353 | 8,394 | 3,070 | 44,142 | 2026 | 63.70 | |
| 2027 | 0.340 | 593 | 21 | 37 | 109 | 426 | 0 | 0 | 3 | 1,190 | 7,102 | 199 | 645 | 0 | 7,946 | 9,136 | 3,109 | 47,251 | 2027 | 68.13 | |
| 2028 | 0.317 | 712 | 21 | 45 | 132 | 426 | 0 | 0 | 4 | 1,339 | 7,357 | 206 | 735 | 0 | 8,298 | 9,637 | 3,052 | 50,303 | 2028 | 70.67 | |
| 2029 | 0.295 | 830 | 20 | 53 | 157 | 426 | 0 | 0 | 4 | 1,490 | 7,759 | 216 | 855 | 0 | 8,830 | 10,320 | 3,042 | 53,346 | 2029 | 74.49 | |
| 2030 | 0.274 | 949 | 19 | 62 | 183 | 426 | 0 | 0 | 19 | 1,658 | 8,273 | 228 | 1,011 | 0 | 9,512 | 11,170 | 3,064 | 56,410 | 2030 | 79.41 | |
| 2031 | 0.255 | 1,067 | 18 | 71 | 211 | 426 | 0 | 0 | 4 | 1,797 | 8,684 | 240 | 1,152 | 0 | 10,076 | 11,873 | 3,031 | 59,441 | 2031 | 83.02 | |
| 2032 | 0.238 | 1,376 | 18 | 89 | 266 | 426 | 0 | 0 | 4 | 2,178 | 9,314 | 250 | 1,356 | 0 | 10,920 | 13,098 | 3,112 | 62,553 | 2032 | 90.10 | |
| 2033 | 0.221 | 1,719 | 17 | 110 | 330 | 426 | 0 | 0 | 4 | 2,606 | 10,428 | 278 | 1,672 | 0 | 12,378 | 14,984 | 3,314 | 65,867 | 2033 | 101.37 | |
| 2034 | 0.206 | 1,991 | 16 | 129 | 388 | 426 | 0 | 0 | 4 | 2,955 | 10,979 | 304 | 1,913 | 0 | 13,196 | 16,151 | 3,324 | 69,191 | 2034 | 107.48 | |
| 2035 | 0.192 | 2,159 | 16 | 143 | 435 | 426 | 0 | 0 | 4 | 3,184 | 11,531 | 326 | 2,160 | 0 | 14,017 | 17,200 | 3,295 | 72,485 | 2035 | 112.58 | |
| 2036 | 0.178 | 2,469 | 15 | 165 | 503 | 426 | 0 | 0 | 4 | 3,583 | 12,585 | 367 | 2,562 | 0 | 15,514 | 19,997 | 3,404 | 75,889 | 2036 | 122.95 | |
| 2037 | 0.166 | 2,709 | 14 | 185 | 567 | 426 | 0 | 0 | 7 | 3,908 | 13,184 | 389 | 2,867 | 0 | 16,440 | 20,349 | 3,376 | 79,265 | 2037 | 128.86 | |
| 2038 | 0.154 | 2,795 | 14 | 198 | 611 | 426 | 0 | 0 | 5 | 4,048 | 13,836 | 408 | 3,222 | 0 | 17,466 | 21,514 | 3,322 | 82,587 | 2038 | 134.01 | |
| 2039 | 0.144 | 2,882 | 13 | 212 | 657 | 426 | 0 | 0 | 5 | 4,194 | 14,523 | 435 | 3,586 | 0 | 18,544 | 22,738 | 3,267 | 85,854 | 2039 | 139.31 | |
| 2040 | 0.134 | 3,090 | 12 | 232 | 722 | 426 | 0 | 0 | 8 | 4,490 | 15,069 | 456 | 3,929 | 0 | 19,454 | 23,944 | 3,202 | 89,056 | 2040 | 144.30 | |
| 2041 | 0.124 | 3,259 | 12 | 251 | 785 | 426 | 0 | 0 | 5 | 4,738 | 15,772 | 483 | 4,396 | 0 | 20,651 | 25,389 | 3,160 | 92,216 | 2041 | 150.51 | |
| 2042 | 0.116 | 3,341 | 11 | 267 | 839 | 426 | 0 | 0 | 5 | 4,890 | 16,514 | 507 | 4,912 | 0 | 21,933 | 26,823 | 3,107 | 95,323 | 2042 | 156.40 | |
| 2043 | 0.108 | 3,686 | 11 | 295 | 933 | 426 | 0 | 0 | 5 | 5,357 | 17,517 | 536 | 5,591 | 0 | 23,644 | 29,001 | 3,126 | 98,449 | 2043 | 166.34 | |
| 2044 | 0.100 | 4,080 | 11 | 327 | 1,039 | 426 | 0 | 0 | 5 | 5,888 | 18,343 | 564 | 6,253 | 0 | 25,160 | 31,048 | 3,115 | 101,564 | 2044 | 175.17 | |
| 2045 | 0.093 | 4,238 | 10 | 350 | 1,117 | 426 | 0 | 0 | 5 | 6,147 | 19,023 | 592 | 6,920 | 0 | 26,535 | 32,682 | 3,051 | 104,615 | 2045 | 181.37 | |
| 2046 | 0.087 | 4,274 | 10 | 370 | 1,185 | 426 | 0 | 0 | 6 | 6,270 | 19,759 | 617 | 7,677 | 0 | 28,053 | 34,323 | 2,982 | 107,597 | 2046 | 187.36 | |
| 2047 | 0.081 | 4,470 | 10 | 396 | 1,276 | 426 | 0 | 0 | 6 | 6,584 | 20,503 | 645 | 8,492 | 0 | 29,640 | 36,224 | 2,929 | 110,527 | 2047 | 194.51 | |
| 2048 | 0.075 | 4,791 | 9 | 429 | 1,387 | 426 | 0 | 0 | 0 | 7,043 | 21,240 | 673 | 9,371 | 0 | 31,284 | 38,327 | 2,885 | 113,411 | 2048 | 202.44 | |
| 2049 | 0.070 | 4,956 | 9 | 456 | 1,482 | 426 | 0 | 0 | 0 | 7,329 | 22,045 | 704 | 10,356 | 0 | 33,105 | 40,434 | 2,832 | 116,243 | 2049 | 210.08 | |
| 2050 | 0.065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116,243 | 2050 | 0.00 | |
| Total NPV = | | \$9,451 | \$101 | \$690 | \$2,124 | \$3,775 | \$0 | \$0 | \$52 | \$16,193 | \$85,746 | \$2,640 | \$11,665 | \$0 | \$100,051 | \$116,243 | | | | | |

FPL System Cost Including EcoGen PPA - High Fuel 7.45% DR

Docket No. 120314-EQ
Staff's 1st DR No. 2 - Supplemental
Attachment No. 1

| Year | Annual Discount Factor 7.45% | Generation Capital FPL (Millions) | Transmission Capital FPL (Millions) | Generation Fixed O&M (Millions) | Capital Replacement Charges (Millions) | Firm Gas Transport Costs (Millions) | Pipeline Capital Costs (Millions) | US/EcoGen Capacity and Energy Costs (Millions) | Misc Unit Costs (Millions) | Total Fixed Costs (Millions) | System Net Fuel (Millions) | Startup + VOM Costs (Millions) | Emission Costs (Millions) | Transmission Losses (Millions) | Total VOM/Fuel Costs (Millions) | Total Annual Costs (Millions) | NPV Annual Cost (Millions) | NPV Cumulative Total Costs (Millions) | Avg Rate Impact \$/1000 KWH | |
|----------------------------|------------------------------|-----------------------------------|-------------------------------------|---------------------------------|--|-------------------------------------|-----------------------------------|--|----------------------------|------------------------------|----------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------------|-------------------------------|----------------------------|---------------------------------------|-----------------------------|--------|
| 2012 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,811 | 99 | -7 | 0 | 2,903 | 2,904 | 2,904 | 2,904 | 2012 | 28.56 |
| 2013 | 0.931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,034 | 104 | -12 | 0 | 3,126 | 3,127 | 2,910 | 5,814 | 2013 | 30.30 |
| 2014 | 0.866 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,396 | 114 | -14 | 0 | 3,496 | 3,497 | 3,029 | 8,843 | 2014 | 33.15 |
| 2015 | 0.806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,798 | 123 | -11 | 0 | 3,910 | 3,911 | 3,153 | 11,995 | 2015 | 36.17 |
| 2016 | 0.750 | 115 | 3 | 6 | 16 | 252 | 0 | 0 | 11 | 404 | 4,043 | 125 | -9 | 0 | 4,159 | 4,563 | 3,423 | 15,418 | 2016 | 41.56 |
| 2017 | 0.698 | 192 | 5 | 10 | 29 | 274 | 0 | 0 | 3 | 515 | 4,444 | 128 | -9 | 0 | 4,563 | 5,078 | 3,545 | 18,963 | 2017 | 45.70 |
| 2018 | 0.650 | 185 | 5 | 11 | 30 | 274 | 0 | 0 | 3 | 508 | 5,080 | 133 | -9 | 0 | 5,204 | 5,712 | 3,712 | 22,675 | 2018 | 50.86 |
| 2019 | 0.605 | 179 | 5 | 11 | 31 | 274 | 0 | 88 | 3 | 591 | 5,471 | 138 | -10 | 0 | 5,599 | 6,190 | 3,743 | 26,418 | 2019 | 54.46 |
| 2020 | 0.563 | 172 | 5 | 11 | 32 | 413 | 0 | 98 | 3 | 734 | 5,935 | 145 | -10 | 0 | 6,070 | 6,804 | 3,829 | 30,248 | 2020 | 58.65 |
| 2021 | 0.524 | 166 | 5 | 12 | 33 | 426 | 0 | 100 | 3 | 743 | 6,498 | 148 | -9 | 0 | 6,637 | 7,380 | 3,865 | 34,113 | 2021 | 62.12 |
| 2022 | 0.487 | 159 | 4 | 12 | 34 | 426 | 0 | 101 | 6 | 742 | 6,997 | 153 | -10 | 0 | 7,140 | 7,822 | 3,647 | 37,760 | 2022 | 64.47 |
| 2023 | 0.454 | 153 | 4 | 12 | 35 | 426 | 0 | 104 | 3 | 737 | 6,999 | 157 | 354 | 0 | 7,110 | 7,847 | 3,560 | 41,320 | 2023 | 63.14 |
| 2024 | 0.422 | 147 | 4 | 12 | 36 | 426 | 0 | 105 | 3 | 734 | 6,989 | 166 | 415 | 0 | 7,570 | 8,305 | 3,506 | 44,827 | 2024 | 65.51 |
| 2025 | 0.393 | 296 | 15 | 20 | 58 | 426 | 0 | 107 | 7 | 929 | 7,369 | 176 | 466 | 0 | 8,011 | 8,941 | 3,513 | 48,340 | 2025 | 69.17 |
| 2026 | 0.366 | 473 | 22 | 30 | 87 | 426 | 0 | 109 | 3 | 1,150 | 7,832 | 189 | 536 | 0 | 8,557 | 9,707 | 3,550 | 51,890 | 2026 | 73.66 |
| 2027 | 0.340 | 593 | 21 | 37 | 109 | 426 | 0 | 110 | 3 | 1,500 | 8,408 | 198 | 636 | 0 | 9,242 | 10,542 | 3,588 | 55,477 | 2027 | 78.62 |
| 2028 | 0.317 | 712 | 21 | 45 | 132 | 426 | 0 | 112 | 4 | 1,451 | 8,712 | 206 | 725 | 0 | 9,643 | 11,094 | 3,514 | 58,991 | 2028 | 81.36 |
| 2029 | 0.295 | 830 | 20 | 53 | 157 | 426 | 0 | 113 | 4 | 1,604 | 9,193 | 215 | 845 | 0 | 10,233 | 11,857 | 3,495 | 62,487 | 2029 | 85.58 |
| 2030 | 0.274 | 949 | 19 | 62 | 183 | 426 | 0 | 115 | 8 | 1,762 | 9,810 | 227 | 999 | 0 | 11,036 | 12,798 | 3,511 | 65,997 | 2030 | 90.99 |
| 2031 | 0.255 | 1,067 | 18 | 71 | 211 | 426 | 0 | 117 | 4 | 1,914 | 10,295 | 239 | 1,139 | 0 | 11,673 | 13,587 | 3,469 | 69,466 | 2031 | 95.01 |
| 2032 | 0.238 | 1,376 | 18 | 89 | 266 | 426 | 0 | 119 | 4 | 2,297 | 11,051 | 249 | 1,341 | 0 | 12,641 | 14,938 | 3,549 | 73,016 | 2032 | 102.75 |
| 2033 | 0.221 | 1,719 | 17 | 110 | 330 | 426 | 0 | 120 | 4 | 2,726 | 12,404 | 277 | 1,655 | 0 | 14,336 | 17,062 | 3,773 | 76,789 | 2033 | 115.44 |
| 2034 | 0.206 | 1,891 | 16 | 124 | 374 | 426 | 0 | 122 | 4 | 2,957 | 13,096 | 304 | 1,898 | 0 | 15,298 | 18,255 | 3,757 | 80,546 | 2034 | 121.48 |
| 2035 | 0.192 | 2,095 | 16 | 140 | 425 | 426 | 0 | 124 | 4 | 3,230 | 13,729 | 325 | 2,145 | 0 | 16,199 | 19,429 | 3,721 | 84,267 | 2035 | 127.17 |
| 2036 | 0.178 | 2,480 | 15 | 165 | 503 | 426 | 0 | 126 | 4 | 3,720 | 14,989 | 365 | 2,551 | 0 | 17,905 | 21,625 | 3,855 | 88,122 | 2036 | 139.23 |
| 2037 | 0.166 | 2,720 | 14 | 185 | 567 | 426 | 0 | 128 | 7 | 4,047 | 15,681 | 387 | 2,877 | 0 | 18,945 | 22,992 | 3,814 | 91,937 | 2037 | 145.60 |
| 2038 | 0.154 | 2,806 | 14 | 198 | 611 | 426 | 0 | 130 | 5 | 4,189 | 16,443 | 406 | 3,253 | 0 | 20,102 | 24,291 | 3,750 | 95,687 | 2038 | 151.30 |
| 2039 | 0.144 | 2,892 | 13 | 212 | 657 | 426 | 0 | 132 | 5 | 4,337 | 17,234 | 433 | 3,646 | 0 | 21,313 | 25,650 | 3,686 | 99,372 | 2039 | 157.15 |
| 2040 | 0.134 | 2,979 | 12 | 227 | 705 | 426 | 0 | 135 | 8 | 4,492 | 17,872 | 455 | 4,036 | 0 | 22,363 | 26,855 | 3,591 | 102,964 | 2040 | 161.85 |
| 2041 | 0.124 | 3,192 | 12 | 247 | 773 | 426 | 0 | 137 | 5 | 4,792 | 18,700 | 481 | 4,501 | 0 | 23,682 | 28,473 | 3,544 | 106,507 | 2041 | 168.79 |
| 2042 | 0.116 | 3,363 | 11 | 267 | 839 | 426 | 0 | 139 | 5 | 5,052 | 19,585 | 506 | 5,003 | 0 | 25,094 | 30,146 | 3,492 | 109,999 | 2042 | 175.78 |
| 2043 | 0.108 | 3,708 | 11 | 295 | 933 | 426 | 0 | 142 | 5 | 5,520 | 20,834 | 534 | 5,645 | 0 | 27,013 | 32,533 | 3,507 | 113,506 | 2043 | 186.60 |
| 2044 | 0.100 | 3,966 | 11 | 322 | 1,020 | 426 | 0 | 144 | 5 | 5,893 | 21,859 | 561 | 6,316 | 0 | 28,736 | 34,630 | 3,474 | 116,980 | 2044 | 195.38 |
| 2045 | 0.093 | 4,172 | 10 | 346 | 1,103 | 426 | 0 | 147 | 5 | 6,210 | 22,671 | 590 | 6,964 | 0 | 30,225 | 36,435 | 3,402 | 120,382 | 2045 | 202.20 |
| 2046 | 0.087 | 4,309 | 10 | 370 | 1,185 | 426 | 0 | 149 | 6 | 6,454 | 23,553 | 615 | 7,705 | 0 | 31,873 | 38,328 | 3,330 | 123,712 | 2046 | 209.23 |
| 2047 | 0.081 | 4,504 | 10 | 396 | 1,276 | 426 | 0 | 152 | 6 | 6,770 | 24,455 | 641 | 8,503 | 0 | 33,599 | 40,369 | 3,265 | 126,977 | 2047 | 216.77 |
| 2048 | 0.075 | 4,672 | 9 | 422 | 1,366 | 426 | 0 | 155 | 0 | 7,050 | 25,406 | 673 | 9,375 | 0 | 35,454 | 42,505 | 3,199 | 130,176 | 2048 | 224.51 |
| 2049 | 0.070 | 4,892 | 9 | 451 | 1,466 | 426 | 0 | 158 | 0 | 7,401 | 26,373 | 701 | 10,323 | 0 | 37,397 | 44,798 | 3,138 | 133,314 | 2049 | 232.76 |
| 2050 | 0.065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133,314 | 2050 | 0.00 |
| [1] Total NPV = | | \$9,381 | \$101 | \$686 | \$2,109 | \$3,775 | \$0 | \$880 | \$49 | \$16,981 | \$102,003 | \$2,632 | \$11,698 | \$0 | \$116,333 | \$133,314 | | | USEcoGen | |
| [2] Total NPV = | | \$9,451 | \$101 | \$690 | \$2,124 | \$3,775 | \$0 | \$0 | \$52 | \$16,193 | \$103,009 | \$2,638 | \$11,809 | \$0 | \$117,456 | \$133,649 | | | W/O USEcoGen | |
| Difference [1] - [2] = | | (\$70) | \$0 | (\$5) | (\$14) | \$0 | \$0 | \$880 | (\$3) | \$788 | (\$1,006) | (\$7) | (\$112) | \$0 | (\$1,124) | (\$335) | | | | |

FPL System Cost Without EcoGen PPA - High Fuel 7.45%

Docket No. 120314-EQ
Staff's 1st DR No. 2 - Supplemental
Attachment No. 1

| Year | Annual Discount Factor 7.450% | Generation Capital FPL (Millions) | Transmission Capital FPL (Millions) | Generation Fixed O&M (Millions) | Capital Replacement Charges (Millions) | Firm Gas Transport Costs (Millions) | Pipeline Capital Costs (Millions) | Misc System Costs (Millions) | Misc Unit Costs (Millions) | Total | | Startup + VOM Costs (Millions) | Emission Costs (Millions) | Transmission Losses (Millions) | Total VOM/Fuel Costs (Millions) | Total Annual Costs (Millions) | NPV Total Annual Cost (Millions) | NPV Cumulative Total Costs (Millions) | Avg Rate Impact \$/1000 KWH | |
|-------------|-------------------------------|-----------------------------------|-------------------------------------|---------------------------------|--|-------------------------------------|-----------------------------------|------------------------------|----------------------------|------------------------|----------------------------|--------------------------------|---------------------------|--------------------------------|---------------------------------|-------------------------------|----------------------------------|---------------------------------------|-----------------------------|--------|
| | | | | | | | | | | Fixed Costs (Millions) | System Net Fuel (Millions) | | | | | | | | | |
| 2012 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,811 | 99 | -7 | 0 | 2,903 | 2,904 | 2,904 | 2,904 | 2012 | 28.56 |
| 2013 | 0.931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,034 | 104 | -12 | 0 | 3,126 | 3,127 | 2,910 | 5,814 | 2013 | 30.30 |
| 2014 | 0.866 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,396 | 114 | -14 | 0 | 3,496 | 3,497 | 3,029 | 8,843 | 2014 | 33.15 |
| 2015 | 0.806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3,798 | 123 | -11 | 0 | 3,910 | 3,911 | 3,153 | 11,995 | 2015 | 36.17 |
| 2016 | 0.750 | 115 | 3 | 6 | 16 | 252 | 0 | 0 | 11 | 404 | 4,043 | 125 | -9 | 0 | 4,159 | 4,563 | 3,423 | 15,418 | 2016 | 41.56 |
| 2017 | 0.698 | 192 | 5 | 10 | 29 | 274 | 0 | 0 | 3 | 515 | 4,444 | 128 | -9 | 0 | 4,563 | 5,078 | 3,545 | 18,963 | 2017 | 45.70 |
| 2018 | 0.650 | 185 | 5 | 11 | 30 | 274 | 0 | 0 | 3 | 508 | 5,080 | 133 | -9 | 0 | 5,204 | 5,712 | 3,712 | 22,675 | 2018 | 50.86 |
| 2019 | 0.605 | 179 | 5 | 11 | 31 | 274 | 0 | 0 | 3 | 503 | 5,558 | 139 | -9 | 0 | 5,688 | 6,190 | 3,743 | 26,418 | 2019 | 54.46 |
| 2020 | 0.563 | 172 | 5 | 11 | 32 | 413 | 0 | 0 | 3 | 636 | 6,037 | 145 | -9 | 0 | 6,173 | 6,808 | 3,832 | 30,250 | 2020 | 58.69 |
| 2021 | 0.524 | 166 | 5 | 12 | 33 | 426 | 0 | 0 | 3 | 643 | 6,603 | 148 | -9 | 0 | 6,742 | 7,385 | 3,868 | 34,118 | 2021 | 62.17 |
| 2022 | 0.487 | 159 | 4 | 12 | 34 | 426 | 0 | 0 | 6 | 641 | 6,712 | 154 | -10 | 0 | 6,856 | 7,498 | 3,655 | 37,773 | 2022 | 61.59 |
| 2023 | 0.454 | 153 | 4 | 12 | 35 | 426 | 0 | 0 | 3 | 634 | 6,713 | 158 | 360 | 0 | 7,231 | 7,864 | 3,568 | 41,341 | 2023 | 63.28 |
| 2024 | 0.422 | 147 | 4 | 12 | 36 | 426 | 0 | 0 | 3 | 629 | 7,104 | 166 | 422 | 0 | 7,692 | 8,321 | 3,513 | 44,854 | 2024 | 65.63 |
| 2025 | 0.393 | 296 | 15 | 20 | 58 | 426 | 0 | 0 | 7 | 822 | 7,489 | 177 | 474 | 0 | 8,140 | 8,962 | 3,521 | 48,375 | 2025 | 69.33 |
| 2026 | 0.366 | 473 | 22 | 30 | 87 | 426 | 0 | 0 | 3 | 1,041 | 7,954 | 188 | 544 | 0 | 8,686 | 9,728 | 3,557 | 51,933 | 2026 | 73.82 |
| 2027 | 0.340 | 593 | 21 | 37 | 109 | 426 | 0 | 0 | 3 | 1,190 | 8,538 | 199 | 645 | 0 | 9,382 | 10,572 | 3,598 | 55,531 | 2027 | 78.84 |
| 2028 | 0.317 | 712 | 21 | 45 | 132 | 426 | 0 | 0 | 4 | 1,339 | 8,843 | 206 | 735 | 0 | 9,784 | 11,123 | 3,523 | 59,054 | 2028 | 81.58 |
| 2029 | 0.295 | 830 | 20 | 53 | 157 | 426 | 0 | 0 | 4 | 1,490 | 9,328 | 216 | 856 | 0 | 10,400 | 11,890 | 3,505 | 62,559 | 2029 | 85.82 |
| 2030 | 0.274 | 949 | 19 | 62 | 183 | 426 | 0 | 0 | 19 | 1,658 | 9,947 | 228 | 1,012 | 0 | 11,187 | 12,845 | 3,524 | 66,083 | 2030 | 91.32 |
| 2031 | 0.255 | 1,067 | 18 | 71 | 211 | 426 | 0 | 0 | 4 | 1,797 | 10,439 | 240 | 1,153 | 0 | 11,832 | 13,629 | 3,480 | 69,562 | 2031 | 95.31 |
| 2032 | 0.238 | 1,376 | 18 | 89 | 266 | 426 | 0 | 0 | 4 | 2,178 | 11,197 | 249 | 1,358 | 0 | 12,804 | 14,982 | 3,560 | 73,122 | 2032 | 103.05 |
| 2033 | 0.221 | 1,719 | 17 | 110 | 330 | 426 | 0 | 0 | 4 | 2,606 | 12,554 | 278 | 1,674 | 0 | 14,506 | 17,111 | 3,784 | 76,906 | 2033 | 115.77 |
| 2034 | 0.206 | 1,991 | 16 | 129 | 388 | 426 | 0 | 0 | 4 | 2,955 | 13,217 | 305 | 1,915 | 0 | 15,437 | 18,391 | 3,785 | 80,691 | 2034 | 122.39 |
| 2035 | 0.192 | 2,159 | 16 | 143 | 435 | 426 | 0 | 0 | 4 | 3,184 | 13,877 | 327 | 2,165 | 0 | 16,369 | 19,552 | 3,745 | 84,436 | 2035 | 127.98 |
| 2036 | 0.178 | 2,469 | 15 | 165 | 503 | 426 | 0 | 0 | 4 | 3,583 | 15,150 | 367 | 2,575 | 0 | 18,092 | 21,675 | 3,864 | 88,300 | 2036 | 139.54 |
| 2037 | 0.166 | 2,709 | 14 | 185 | 567 | 426 | 0 | 0 | 7 | 3,908 | 15,843 | 390 | 2,904 | 0 | 19,137 | 23,045 | 3,823 | 92,123 | 2037 | 145.94 |
| 2038 | 0.154 | 2,795 | 14 | 198 | 611 | 426 | 0 | 0 | 5 | 4,048 | 16,608 | 407 | 3,282 | 0 | 20,297 | 24,345 | 3,759 | 95,882 | 2038 | 151.64 |
| 2039 | 0.144 | 2,882 | 13 | 212 | 657 | 426 | 0 | 0 | 5 | 4,194 | 17,402 | 435 | 3,680 | 0 | 21,517 | 25,711 | 3,694 | 99,576 | 2039 | 157.53 |
| 2040 | 0.134 | 3,090 | 12 | 232 | 722 | 426 | 0 | 0 | 8 | 4,490 | 18,010 | 456 | 4,067 | 0 | 22,533 | 27,023 | 3,614 | 103,190 | 2040 | 162.86 |
| 2041 | 0.124 | 3,259 | 12 | 251 | 785 | 426 | 0 | 0 | 5 | 4,738 | 18,862 | 484 | 4,536 | 0 | 23,882 | 28,620 | 3,562 | 106,752 | 2041 | 169.66 |
| 2042 | 0.116 | 3,341 | 11 | 267 | 839 | 426 | 0 | 0 | 5 | 4,890 | 19,763 | 507 | 5,051 | 0 | 25,321 | 30,211 | 3,499 | 110,251 | 2042 | 176.16 |
| 2043 | 0.108 | 3,686 | 11 | 295 | 933 | 426 | 0 | 0 | 5 | 5,357 | 21,010 | 535 | 5,700 | 0 | 27,245 | 32,602 | 3,514 | 113,765 | 2043 | 186.99 |
| 2044 | 0.100 | 4,080 | 11 | 327 | 1,039 | 426 | 0 | 0 | 5 | 5,888 | 22,009 | 563 | 6,361 | 0 | 28,933 | 34,821 | 3,493 | 117,259 | 2044 | 196.46 |
| 2045 | 0.093 | 4,238 | 10 | 350 | 1,117 | 426 | 0 | 0 | 5 | 6,147 | 22,843 | 592 | 7,015 | 0 | 30,450 | 36,597 | 3,417 | 120,676 | 2045 | 203.10 |
| 2046 | 0.087 | 4,274 | 10 | 370 | 1,185 | 426 | 0 | 0 | 6 | 6,270 | 23,742 | 616 | 7,770 | 0 | 32,128 | 38,397 | 3,336 | 124,012 | 2046 | 209.61 |
| 2047 | 0.081 | 4,470 | 10 | 396 | 1,276 | 426 | 0 | 0 | 6 | 6,584 | 24,654 | 644 | 8,570 | 0 | 33,868 | 40,452 | 3,271 | 127,283 | 2047 | 217.22 |
| 2048 | 0.075 | 4,791 | 9 | 429 | 1,387 | 426 | 0 | 0 | 0 | 7,043 | 25,557 | 673 | 9,439 | 0 | 35,669 | 42,711 | 3,214 | 130,498 | 2048 | 225.60 |
| 2049 | 0.070 | 4,956 | 9 | 456 | 1,482 | 426 | 0 | 0 | 0 | 7,329 | 26,559 | 704 | 10,398 | 0 | 37,661 | 44,990 | 3,151 | 133,649 | 2049 | 233.76 |
| 2050 | 0.065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133,649 | 2050 | 0.00 |
| Total NPV = | | \$9,451 | \$101 | \$690 | \$2,124 | \$3,775 | \$0 | \$0 | \$52 | \$16,193 | \$103,009 | \$2,638 | \$11,809 | \$0 | \$117,456 | \$133,649 | | | | |

FPL System Cost Including EcoGen PPA - Low Fuel 7.45% DR

Docket No. 120314-EQ
Staff's 1st DR No. 2 - Supplemental
Attachment No. 1

| Year | Annual Discount Factor 7.450% | Generation Capital FPL (Millions) | Transmission Capital FPL (Millions) | Generation Fixed O&M (Millions) | Capital Replacement Charges (Millions) | Firm Gas Transport Costs (Millions) | Pipeline Capital Costs (Millions) | USEcoGen Capacity and Energy Costs (Millions) | Misc Unit Costs (Millions) | Total Fixed Costs (Millions) | System Net Fuel (Millions) | Startup +VOM Costs (Millions) | Emission Costs (Millions) | Transmission Losses (Millions) | Total VOM/Fuel Costs (Millions) | Total Annual Costs (Millions) | NPV Total Annual Cost (Millions) | NPV Cumulative Total Costs (Millions) | Avg Rate Impact \$/1000 KWH | |
|----------------------------|-------------------------------|-----------------------------------|-------------------------------------|---------------------------------|--|-------------------------------------|-----------------------------------|---|----------------------------|------------------------------|----------------------------|-------------------------------|---------------------------|--------------------------------|---------------------------------|-------------------------------|----------------------------------|---------------------------------------|-----------------------------|--------|
| 2012 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1,864 | 98 | -7 | 0 | 1,955 | 1,956 | 1,956 | 1,956 | 2012 | 19.23 |
| 2013 | 0.931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,059 | 105 | -13 | 0 | 2,151 | 2,152 | 2,003 | 3,959 | 2013 | 20.86 |
| 2014 | 0.866 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,299 | 114 | -15 | 0 | 2,398 | 2,400 | 2,078 | 6,037 | 2014 | 22.75 |
| 2015 | 0.806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,557 | 123 | -11 | 0 | 2,669 | 2,670 | 2,152 | 8,190 | 2015 | 24.69 |
| 2016 | 0.750 | 115 | 3 | 6 | 16 | 252 | 0 | 11 | 3 | 404 | 2,724 | 126 | -9 | 0 | 2,841 | 3,245 | 2,434 | 10,624 | 2016 | 29.56 |
| 2017 | 0.698 | 192 | 5 | 10 | 29 | 274 | 0 | 10 | 3 | 515 | 2,997 | 128 | -9 | 0 | 3,116 | 3,630 | 2,535 | 13,158 | 2017 | 32.68 |
| 2018 | 0.650 | 185 | 5 | 11 | 30 | 274 | 0 | 3 | 3 | 508 | 3,410 | 134 | -9 | 0 | 3,535 | 4,043 | 2,627 | 15,785 | 2018 | 36.00 |
| 2019 | 0.605 | 179 | 5 | 11 | 31 | 274 | 0 | 88 | 3 | 591 | 3,676 | 139 | -9 | 0 | 3,806 | 4,396 | 2,658 | 18,444 | 2019 | 38.68 |
| 2020 | 0.563 | 172 | 5 | 11 | 32 | 413 | 0 | 98 | 3 | 734 | 3,979 | 147 | -10 | 0 | 4,116 | 4,850 | 2,730 | 21,174 | 2020 | 41.81 |
| 2021 | 0.524 | 166 | 5 | 12 | 33 | 426 | 0 | 100 | 3 | 743 | 4,346 | 150 | -9 | 0 | 4,487 | 5,230 | 2,739 | 23,913 | 2021 | 44.02 |
| 2022 | 0.487 | 159 | 4 | 12 | 34 | 426 | 0 | 101 | 6 | 742 | 4,428 | 153 | -10 | 0 | 4,571 | 5,313 | 2,890 | 26,503 | 2022 | 43.65 |
| 2023 | 0.454 | 153 | 4 | 12 | 35 | 426 | 0 | 104 | 3 | 737 | 4,462 | 157 | 351 | 0 | 4,970 | 5,707 | 2,589 | 29,092 | 2023 | 45.92 |
| 2024 | 0.422 | 147 | 4 | 12 | 36 | 426 | 0 | 105 | 3 | 734 | 4,726 | 166 | 411 | 0 | 5,303 | 6,037 | 2,549 | 31,641 | 2024 | 47.62 |
| 2025 | 0.393 | 296 | 15 | 20 | 58 | 426 | 0 | 107 | 7 | 929 | 4,984 | 176 | 459 | 0 | 5,619 | 6,549 | 2,573 | 34,214 | 2025 | 50.66 |
| 2026 | 0.366 | 473 | 22 | 30 | 87 | 426 | 0 | 109 | 3 | 1,150 | 5,285 | 189 | 533 | 0 | 6,007 | 7,157 | 2,617 | 36,831 | 2026 | 54.31 |
| 2027 | 0.340 | 593 | 21 | 37 | 109 | 426 | 0 | 110 | 3 | 1,300 | 5,658 | 197 | 632 | 0 | 6,487 | 7,787 | 2,650 | 39,482 | 2027 | 58.08 |
| 2028 | 0.317 | 712 | 21 | 45 | 132 | 426 | 0 | 112 | 4 | 1,451 | 5,867 | 206 | 720 | 0 | 6,793 | 8,244 | 2,611 | 42,093 | 2028 | 60.46 |
| 2029 | 0.295 | 830 | 20 | 53 | 157 | 426 | 0 | 113 | 4 | 1,604 | 6,188 | 215 | 839 | 0 | 7,242 | 8,845 | 2,607 | 44,700 | 2029 | 63.85 |
| 2030 | 0.274 | 949 | 19 | 62 | 183 | 426 | 0 | 115 | 8 | 1,762 | 6,600 | 227 | 991 | 0 | 7,818 | 9,580 | 2,628 | 47,328 | 2030 | 68.11 |
| 2031 | 0.255 | 1,067 | 18 | 71 | 211 | 426 | 0 | 117 | 4 | 1,914 | 6,942 | 238 | 1,127 | 0 | 8,307 | 10,221 | 2,610 | 49,938 | 2031 | 71.47 |
| 2032 | 0.238 | 1,376 | 18 | 89 | 266 | 426 | 0 | 119 | 4 | 2,297 | 7,437 | 248 | 1,325 | 0 | 9,010 | 11,307 | 2,687 | 52,624 | 2032 | 77.78 |
| 2033 | 0.221 | 1,719 | 17 | 110 | 330 | 426 | 0 | 120 | 4 | 2,726 | 8,282 | 281 | 1,637 | 0 | 10,200 | 12,926 | 2,859 | 55,483 | 2033 | 87.45 |
| 2034 | 0.206 | 1,891 | 16 | 124 | 374 | 426 | 0 | 122 | 4 | 2,957 | 8,751 | 302 | 1,866 | 0 | 10,919 | 13,876 | 2,856 | 58,339 | 2034 | 92.34 |
| 2035 | 0.192 | 2,095 | 16 | 140 | 425 | 426 | 0 | 124 | 4 | 3,230 | 9,213 | 323 | 2,071 | 0 | 11,607 | 14,836 | 2,842 | 61,180 | 2035 | 97.11 |
| 2036 | 0.178 | 2,480 | 15 | 165 | 503 | 426 | 0 | 126 | 4 | 3,720 | 10,056 | 367 | 2,414 | 0 | 12,837 | 16,557 | 2,951 | 64,132 | 2036 | 106.60 |
| 2037 | 0.166 | 2,720 | 14 | 185 | 567 | 426 | 0 | 128 | 7 | 4,047 | 10,545 | 387 | 2,695 | 0 | 13,627 | 17,674 | 2,932 | 67,064 | 2037 | 111.92 |
| 2038 | 0.154 | 2,806 | 14 | 198 | 611 | 426 | 0 | 130 | 5 | 4,189 | 11,063 | 407 | 3,040 | 0 | 14,510 | 18,698 | 2,887 | 69,951 | 2038 | 116.47 |
| 2039 | 0.144 | 2,892 | 13 | 212 | 657 | 426 | 0 | 132 | 5 | 4,337 | 11,580 | 436 | 3,425 | 0 | 15,441 | 19,777 | 2,842 | 72,793 | 2039 | 121.17 |
| 2040 | 0.134 | 2,979 | 12 | 227 | 705 | 426 | 0 | 135 | 8 | 4,492 | 11,999 | 457 | 3,813 | 0 | 16,269 | 20,761 | 2,776 | 75,569 | 2040 | 125.12 |
| 2041 | 0.124 | 3,192 | 12 | 247 | 773 | 426 | 0 | 137 | 5 | 4,792 | 12,536 | 482 | 4,284 | 0 | 17,302 | 22,093 | 2,750 | 78,319 | 2041 | 130.97 |
| 2042 | 0.116 | 3,363 | 11 | 267 | 839 | 426 | 0 | 139 | 5 | 5,052 | 13,102 | 507 | 4,806 | 0 | 18,415 | 23,466 | 2,718 | 81,037 | 2042 | 136.83 |
| 2043 | 0.108 | 3,708 | 11 | 295 | 933 | 426 | 0 | 142 | 5 | 5,520 | 13,867 | 536 | 5,494 | 0 | 19,897 | 25,417 | 2,740 | 83,776 | 2043 | 145.78 |
| 2044 | 0.100 | 3,966 | 11 | 322 | 1,020 | 426 | 0 | 144 | 5 | 5,893 | 14,515 | 563 | 6,181 | 0 | 21,259 | 27,153 | 2,724 | 86,500 | 2044 | 153.19 |
| 2045 | 0.093 | 4,172 | 10 | 346 | 1,103 | 426 | 0 | 147 | 5 | 6,210 | 15,033 | 591 | 6,848 | 0 | 22,472 | 28,682 | 2,678 | 89,178 | 2045 | 159.17 |
| 2046 | 0.087 | 4,309 | 10 | 370 | 1,185 | 426 | 0 | 149 | 6 | 6,454 | 15,600 | 617 | 7,600 | 0 | 23,817 | 30,271 | 2,630 | 91,809 | 2046 | 165.25 |
| 2047 | 0.081 | 4,504 | 10 | 396 | 1,276 | 426 | 0 | 152 | 6 | 6,770 | 16,187 | 642 | 8,408 | 0 | 25,237 | 32,007 | 2,588 | 94,397 | 2047 | 171.87 |
| 2048 | 0.075 | 4,672 | 9 | 422 | 1,366 | 426 | 0 | 155 | 0 | 7,050 | 16,794 | 675 | 9,302 | 0 | 26,771 | 33,822 | 2,545 | 96,942 | 2048 | 178.65 |
| 2049 | 0.070 | 4,892 | 9 | 451 | 1,466 | 426 | 0 | 158 | 0 | 7,401 | 17,418 | 702 | 10,268 | 0 | 28,388 | 35,789 | 2,507 | 99,449 | 2049 | 185.95 |
| 2050 | 0.065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99,449 | 2050 | 0.00 |
| [1] Total NPV = | \$9,381 | \$101 | \$686 | \$2,109 | \$3,775 | \$0 | \$880 | \$49 | \$16,981 | \$68,447 | \$2,638 | \$11,384 | \$0 | \$82,468 | \$99,449 | USEcoGen | | | | |
| [2] Total NPV = | \$9,451 | \$101 | \$690 | \$2,124 | \$3,775 | \$0 | \$0 | \$52 | \$16,193 | \$69,100 | \$2,643 | \$11,497 | \$0 | \$83,239 | \$99,432 | W/O USEcoGen | | | | |
| Difference 1 - 2 = | (\$70) | \$0 | (\$5) | (\$14) | \$0 | \$0 | \$880 | (\$3) | \$788 | (\$653) | (\$5) | (\$113) | (\$771) | \$17 | | | | | | |

FPL System Cost Without EcoGen PPA - Low Fuel 7.45% DR

Docket No. 120314-EQ
Staff's 1st DR No. 2 - Supplemental
Attachment No. 1

| Year | Annual Discount Factor 7.45% | Generation Capital FPL (Millions) | Transmission Capital FPL (Millions) | Generation Fixed O&M (Millions) | Capital Replacement Charges (Millions) | Firm Gas Transport Costs (Millions) | Pipeline Capital Costs (Millions) | Misc System Costs (Millions) | Misc Unit Costs (Millions) | Total | | Startup +VOM Costs (Millions) | Emission Costs (Millions) | Transmission Losses (Millions) | Total | | NPV Total Annual Cost (Millions) | NPV Cumulative Total Costs (Millions) | Year | Avg Rate Impact \$/1000 KWH |
|-------------|------------------------------|-----------------------------------|-------------------------------------|---------------------------------|--|-------------------------------------|-----------------------------------|------------------------------|----------------------------|------------------------|----------------------------|-------------------------------|---------------------------|--------------------------------|---------------------------|-------------------------|----------------------------------|---------------------------------------|------|-----------------------------|
| | | | | | | | | | | Fixed Costs (Millions) | System Net Fuel (Millions) | | | | VOM/Fuel Costs (Millions) | Annual Costs (Millions) | | | | |
| 2012 | 1.000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1,864 | 98 | -7 | 0 | 1,955 | 1,956 | 1,956 | 1,956 | 2012 | 19.23 |
| 2013 | 0.931 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,059 | 105 | -13 | 0 | 2,151 | 2,152 | 2,003 | 3,959 | 2013 | 20.86 |
| 2014 | 0.866 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,299 | 114 | -15 | 0 | 2,398 | 2,400 | 2,078 | 6,037 | 2014 | 22.75 |
| 2015 | 0.806 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2,557 | 123 | -11 | 0 | 2,669 | 2,670 | 2,152 | 8,190 | 2015 | 24.69 |
| 2016 | 0.750 | 115 | 3 | 6 | 16 | 252 | 0 | 0 | 11 | 404 | 2,724 | 126 | -9 | 0 | 2,841 | 3,245 | 2,434 | 10,624 | 2016 | 29.56 |
| 2017 | 0.698 | 192 | 5 | 10 | 29 | 274 | 0 | 0 | 3 | 515 | 2,997 | 128 | -9 | 0 | 3,116 | 3,630 | 2,535 | 13,158 | 2017 | 32.68 |
| 2018 | 0.650 | 185 | 5 | 11 | 30 | 274 | 0 | 0 | 3 | 508 | 3,410 | 134 | -9 | 0 | 3,535 | 4,043 | 2,627 | 15,785 | 2018 | 36.00 |
| 2019 | 0.605 | 179 | 5 | 11 | 31 | 274 | 0 | 0 | 3 | 503 | 3,732 | 138 | -9 | 0 | 3,861 | 4,363 | 2,639 | 18,424 | 2019 | 38.38 |
| 2020 | 0.563 | 172 | 5 | 11 | 32 | 413 | 0 | 0 | 3 | 636 | 4,046 | 147 | -9 | 0 | 4,184 | 4,819 | 2,712 | 21,136 | 2020 | 41.54 |
| 2021 | 0.524 | 166 | 5 | 12 | 33 | 426 | 0 | 0 | 3 | 643 | 4,413 | 150 | -9 | 0 | 4,554 | 5,197 | 2,722 | 23,859 | 2021 | 43.75 |
| 2022 | 0.487 | 159 | 4 | 12 | 34 | 426 | 0 | 0 | 6 | 641 | 4,501 | 156 | -10 | 0 | 4,647 | 5,288 | 2,578 | 26,436 | 2022 | 43.45 |
| 2023 | 0.454 | 153 | 4 | 12 | 35 | 426 | 0 | 0 | 3 | 634 | 4,535 | 158 | 357 | 0 | 5,050 | 5,683 | 2,578 | 29,015 | 2023 | 45.73 |
| 2024 | 0.422 | 147 | 4 | 12 | 36 | 426 | 0 | 0 | 3 | 629 | 4,800 | 167 | 418 | 0 | 5,385 | 6,013 | 2,539 | 31,554 | 2024 | 47.43 |
| 2025 | 0.393 | 296 | 15 | 20 | 58 | 426 | 0 | 0 | 7 | 822 | 5,061 | 177 | 467 | 0 | 5,705 | 6,527 | 2,565 | 34,118 | 2025 | 50.50 |
| 2026 | 0.366 | 473 | 22 | 30 | 87 | 426 | 0 | 0 | 3 | 1,041 | 5,365 | 188 | 541 | 0 | 6,094 | 7,136 | 2,609 | 36,728 | 2026 | 54.15 |
| 2027 | 0.340 | 593 | 21 | 37 | 109 | 426 | 0 | 0 | 3 | 1,190 | 5,743 | 198 | 642 | 0 | 6,583 | 7,772 | 2,645 | 39,373 | 2027 | 57.96 |
| 2028 | 0.317 | 712 | 21 | 45 | 132 | 426 | 0 | 0 | 4 | 1,339 | 5,952 | 206 | 730 | 0 | 6,888 | 8,227 | 2,606 | 41,979 | 2028 | 60.34 |
| 2029 | 0.295 | 830 | 20 | 53 | 157 | 426 | 0 | 0 | 4 | 1,490 | 6,276 | 215 | 850 | 0 | 7,341 | 8,831 | 2,603 | 44,582 | 2029 | 63.75 |
| 2030 | 0.274 | 949 | 19 | 62 | 183 | 426 | 0 | 0 | 19 | 1,658 | 6,689 | 227 | 1,004 | 0 | 7,920 | 9,578 | 2,628 | 47,210 | 2030 | 68.10 |
| 2031 | 0.255 | 1,067 | 18 | 71 | 211 | 426 | 0 | 0 | 4 | 1,797 | 7,035 | 239 | 1,142 | 0 | 8,416 | 10,213 | 2,608 | 49,818 | 2031 | 71.42 |
| 2032 | 0.238 | 1,376 | 18 | 89 | 266 | 426 | 0 | 0 | 4 | 2,178 | 7,532 | 249 | 1,342 | 0 | 9,123 | 11,301 | 2,685 | 52,503 | 2032 | 77.74 |
| 2033 | 0.221 | 1,719 | 17 | 110 | 330 | 426 | 0 | 0 | 4 | 2,606 | 8,380 | 281 | 1,656 | 0 | 10,317 | 12,923 | 2,858 | 55,361 | 2033 | 87.43 |
| 2034 | 0.206 | 1,991 | 16 | 129 | 388 | 426 | 0 | 0 | 4 | 2,955 | 8,831 | 302 | 1,881 | 0 | 11,014 | 13,968 | 2,875 | 58,236 | 2034 | 92.95 |
| 2035 | 0.192 | 2,159 | 16 | 143 | 435 | 426 | 0 | 0 | 4 | 3,184 | 9,312 | 325 | 2,088 | 0 | 11,725 | 14,909 | 2,856 | 61,091 | 2035 | 97.58 |
| 2036 | 0.178 | 2,469 | 15 | 165 | 503 | 426 | 0 | 0 | 4 | 3,583 | 10,159 | 368 | 2,439 | 0 | 12,966 | 16,549 | 2,950 | 64,041 | 2036 | 106.54 |
| 2037 | 0.166 | 2,709 | 14 | 185 | 567 | 426 | 0 | 0 | 7 | 3,908 | 10,650 | 389 | 2,724 | 0 | 13,763 | 17,671 | 2,932 | 66,973 | 2037 | 111.91 |
| 2038 | 0.154 | 2,795 | 14 | 198 | 611 | 426 | 0 | 0 | 5 | 4,048 | 11,169 | 409 | 3,071 | 0 | 14,649 | 18,697 | 2,887 | 69,859 | 2038 | 116.46 |
| 2039 | 0.144 | 2,882 | 13 | 212 | 657 | 426 | 0 | 0 | 5 | 4,194 | 11,689 | 436 | 3,460 | 0 | 15,585 | 19,780 | 2,842 | 72,702 | 2039 | 121.19 |
| 2040 | 0.134 | 3,090 | 12 | 232 | 722 | 426 | 0 | 0 | 8 | 4,490 | 12,094 | 458 | 3,841 | 0 | 16,393 | 20,883 | 2,793 | 75,494 | 2040 | 125.85 |
| 2041 | 0.124 | 3,259 | 12 | 251 | 785 | 426 | 0 | 0 | 5 | 4,738 | 12,639 | 482 | 4,322 | 0 | 17,443 | 22,181 | 2,761 | 78,255 | 2041 | 131.49 |
| 2042 | 0.116 | 3,341 | 11 | 267 | 839 | 426 | 0 | 0 | 5 | 4,890 | 13,219 | 509 | 4,851 | 0 | 18,579 | 23,468 | 2,718 | 80,973 | 2042 | 136.84 |
| 2043 | 0.108 | 3,686 | 11 | 295 | 933 | 426 | 0 | 0 | 5 | 5,357 | 13,986 | 537 | 5,543 | 0 | 20,066 | 25,423 | 2,740 | 83,713 | 2043 | 145.82 |
| 2044 | 0.100 | 4,080 | 11 | 327 | 1,039 | 426 | 0 | 0 | 5 | 5,888 | 14,615 | 564 | 6,224 | 0 | 21,403 | 27,291 | 2,738 | 86,451 | 2044 | 153.97 |
| 2045 | 0.093 | 4,238 | 10 | 350 | 1,117 | 426 | 0 | 0 | 5 | 6,147 | 15,143 | 593 | 6,904 | 0 | 22,640 | 28,787 | 2,688 | 89,139 | 2045 | 159.76 |
| 2046 | 0.087 | 4,274 | 10 | 370 | 1,185 | 426 | 0 | 0 | 6 | 6,270 | 15,725 | 618 | 7,663 | 0 | 24,006 | 30,276 | 2,631 | 91,770 | 2046 | 165.27 |
| 2047 | 0.081 | 4,470 | 10 | 396 | 1,276 | 426 | 0 | 0 | 6 | 6,584 | 16,316 | 645 | 8,477 | 0 | 25,438 | 32,022 | 2,590 | 94,359 | 2047 | 171.95 |
| 2048 | 0.075 | 4,791 | 9 | 429 | 1,387 | 426 | 0 | 0 | 0 | 7,043 | 16,898 | 674 | 9,362 | 0 | 26,934 | 33,976 | 2,557 | 96,916 | 2048 | 179.46 |
| 2049 | 0.070 | 4,956 | 9 | 456 | 1,482 | 426 | 0 | 0 | 0 | 7,329 | 17,537 | 704 | 10,344 | 0 | 28,585 | 35,913 | 2,515 | 99,432 | 2049 | 186.60 |
| 2050 | 0.065 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99,432 | 2050 | 0.00 |
| Total NPV = | | \$9,451 | \$101 | \$690 | \$2,124 | \$3,775 | \$0 | \$0 | \$52 | \$16,193 | \$69,100 | \$2,643 | \$11,497 | \$0 | \$83,239 | \$99,432 | | | | |

Q.

Please provide a cost-effectiveness analysis comparing the combined payments to the three EcoGen renewable facilities to the following:

- FPL's current standard offer contract, and
- FPL's planned 2025 Combined Cycle identified in Appendixes A through C.

For each of these two avoided cost comparisons, provide three fuel forecast scenarios, including a baseline scenario, a low fuel cost scenario, and a high fuel cost scenario using the table below.

| (2012 Standard Offer or 2025 Combined Cycle) Avoided Cost with (Baseline, Low, High) Fuel Forecast | | | | | | | | | | | | |
|--|-----------------|----------------------------------|--------|-------------------|-------|------------|----------|--------|-------|------------|--------|------------|
| Year | Energy (MWh) | Payments to Renewable Facilities | | | | | | | | | | |
| | | Capacity | Energy | Performance Bonus | Total | Cumulative | Capacity | Energy | Total | Cumulative | Annual | Cumulative |
| | | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 | \$000 |
| 2019 | | | | | | | | | | | | |
| 2020 | | | | | | | | | | | | |
| 2021 | | | | | | | | | | | | |
| 2022 | | | | | | | | | | | | |
| 2023 | | | | | | | | | | | | |
| 2024 | | | | | | | | | | | | |
| 2025 | | | | | | | | | | | | |
| 2026 | | | | | | | | | | | | |
| 2027 | | | | | | | | | | | | |
| 2028 | | | | | | | | | | | | |
| 2029 | | | | | | | | | | | | |
| 2030 | | | | | | | | | | | | |
| 2031 | | | | | | | | | | | | |
| 2032 | | | | | | | | | | | | |
| 2033 | | | | | | | | | | | | |
| 2034 | | | | | | | | | | | | |
| 2035 | | | | | | | | | | | | |
| 2036 | | | | | | | | | | | | |
| 2037 | | | | | | | | | | | | |
| 2038 | | | | | | | | | | | | |
| 2039 | | | | | | | | | | | | |
| 2040 | | | | | | | | | | | | |
| 2041 | | | | | | | | | | | | |
| 2042 | | | | | | | | | | | | |
| 2043 | | | | | | | | | | | | |
| 2044 | | | | | | | | | | | | |
| 2045 | | | | | | | | | | | | |
| 2046 | | | | | | | | | | | | |
| 2047 | | | | | | | | | | | | |
| 2048 | | | | | | | | | | | | |
| 2049 | | | | | | | | | | | | |

A.

See Attachment No. 1 to this requested data.

Table 8 - Cost Effectiveness Analysis Page 1 of 6

| (2012 Standard Offer Contract) Avoided Costs with Baseline Fuel Forecast | | | | | | | | | | | | | |
|--|-----------|----------------------------------|---------|-------------------|-----------|------------|---------------|-----------|-------------------|-----------|------------|------------|------------|
| Year | Energy | Payments to Renewable Facilities | | | | | Avoided Costs | | | | | Difference | |
| | | Capacity | Energy | Performance Bonus | Total | Cumulative | Capacity | Energy | Performance Bonus | Total | Cumulative | Annual | Cumulative |
| | | (MWh) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) |
| 2019 | 1,419,120 | | | | | | | 80,311 | | 80,311 | 80,311 | | |
| 2020 | 1,423,010 | | | | | | | 88,285 | | 88,285 | 168,596 | | |
| 2021 | 1,419,120 | | | | | | 7,603 | 98,061 | | 105,664 | 274,260 | | |
| 2022 | 1,419,120 | | | | | | | 101,224 | | 101,224 | 375,484 | | |
| 2023 | 1,419,120 | | | | | | | 95,073 | | 95,073 | 470,557 | | |
| 2024 | 1,423,010 | | | | | | | 102,559 | | 102,559 | 573,116 | | |
| 2025 | 1,419,120 | | | | | | | 102,805 | | 102,805 | 675,921 | | |
| 2026 | 1,419,120 | | | | | | | 105,266 | | 105,266 | 781,187 | | |
| 2027 | 1,419,120 | | | | | | | 110,186 | | 110,186 | 891,373 | | |
| 2028 | 1,423,010 | | | | | | | 111,370 | | 111,370 | 1,002,743 | | |
| 2029 | 1,419,120 | | | | | | | 112,471 | | 112,471 | 1,115,214 | | |
| 2030 | 1,419,120 | | | | | | | 115,283 | | 115,283 | 1,230,497 | | |
| 2031 | 1,419,120 | | | | | | | 118,622 | | 118,622 | 1,349,118 | | |
| 2032 | 1,423,010 | | | | | | | 120,885 | | 120,885 | 1,470,004 | | |
| 2033 | 1,419,120 | | | | | | | 126,706 | | 126,706 | 1,596,709 | | |
| 2034 | 1,419,120 | | | | | | | 127,057 | | 127,057 | 1,723,766 | | |
| 2035 | 1,419,120 | | | | | | | 125,827 | | 125,827 | 1,849,593 | | |
| 2036 | 1,423,010 | | | | | | | 128,110 | | 128,110 | 1,977,703 | | |
| 2037 | 1,419,120 | | | | | | | 126,530 | | 126,530 | 2,104,233 | | |
| 2038 | 1,419,120 | | | | | | | 127,584 | | 127,584 | 2,231,817 | | |
| 2039 | 1,419,120 | | | | | | | 128,111 | | 128,111 | 2,359,929 | | |
| 2040 | 1,423,010 | | | | | | | 131,635 | | 131,635 | 2,491,564 | | |
| 2041 | 1,419,120 | | | | | | | 134,064 | | 134,064 | 2,625,627 | | |
| 2042 | 1,419,120 | | | | | | | 138,068 | | 138,068 | 2,763,695 | | |
| 2043 | 1,419,120 | | | | | | | 141,046 | | 141,046 | 2,904,740 | | |
| 2044 | 1,423,010 | | | | | | | 143,375 | | 143,375 | 3,048,116 | | |
| 2045 | 1,419,120 | | | | | | | 146,445 | | 146,445 | 3,194,560 | | |
| 2046 | 1,419,120 | | | | | | | 148,723 | | 148,723 | 3,343,283 | | |
| 2047 | 1,419,120 | | | | | | | 151,857 | | 151,857 | 3,495,140 | | |
| 2048 | 1,419,120 | | | | | | | 153,798 | | 153,798 | 3,648,938 | | |
| 2049 | 1,419,120 | | | | | | | 156,547 | | 156,547 | 3,805,485 | | |
| NPV | | 559,681 | 728,765 | 87,626 | 1,376,072 | | 7,086 | 1,350,646 | - | 1,356,802 | | (19,270) | |

Table 8 - Cost Effectiveness Analysis Page 2 of 6

| (2012 Standard Offer Contract) Avoided Costs with High Fuel Forecast | | | | | | | | | | | | | |
|--|-----------|----------------------------------|---------|-------------------|-----------|------------|---------------|-----------|-------------------|-----------|------------|------------|------------|
| Year | Energy | Payments to Renewable Facilities | | | | | Avoided Costs | | | | | Difference | |
| | | Capacity | Energy | Performance Bonus | Total | Cumulative | Capacity | Energy | Performance Bonus | Total | Cumulative | Annual | Cumulative |
| | | (MWh) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) |
| 2019 | 1,419,120 | | | | | | | | | | | | |
| 2020 | 1,423,010 | | | | | | | | | | | | |
| 2021 | 1,419,120 | | | | | | | | | | | | |
| 2022 | 1,419,120 | | | | | | | | | | | | |
| 2023 | 1,419,120 | | | | | | | | | | | | |
| 2024 | 1,423,010 | | | | | | | | | | | | |
| 2025 | 1,419,120 | | | | | | | | | | | | |
| 2026 | 1,419,120 | | | | | | | | | | | | |
| 2027 | 1,419,120 | | | | | | | | | | | | |
| 2028 | 1,423,010 | | | | | | | | | | | | |
| 2029 | 1,419,120 | | | | | | | | | | | | |
| 2030 | 1,419,120 | | | | | | | | | | | | |
| 2031 | 1,419,120 | | | | | | | | | | | | |
| 2032 | 1,423,010 | | | | | | | | | | | | |
| 2033 | 1,419,120 | | | | | | | | | | | | |
| 2034 | 1,419,120 | | | | | | | | | | | | |
| 2035 | 1,419,120 | | | | | | | | | | | | |
| 2036 | 1,423,010 | | | | | | | | | | | | |
| 2037 | 1,419,120 | | | | | | | | | | | | |
| 2038 | 1,419,120 | | | | | | | | | | | | |
| 2039 | 1,419,120 | | | | | | | | | | | | |
| 2040 | 1,423,010 | | | | | | | | | | | | |
| 2041 | 1,419,120 | | | | | | | | | | | | |
| 2042 | 1,419,120 | | | | | | | | | | | | |
| 2043 | 1,419,120 | | | | | | | | | | | | |
| 2044 | 1,423,010 | | | | | | | | | | | | |
| 2045 | 1,419,120 | | | | | | | | | | | | |
| 2046 | 1,419,120 | | | | | | | | | | | | |
| 2047 | 1,419,120 | | | | | | | | | | | | |
| 2048 | 1,419,120 | | | | | | | | | | | | |
| 2049 | 1,419,120 | | | | | | | | | | | | |
| NPV | | 549,671 | 715,304 | 87,436 | 1,352,411 | | 7,076 | 1,604,518 | - | 1,610,647 | | 258,236 | |

Table 8 - Cost Effectiveness Analysis Page 3 of 6

| (2012 Standard Offer Contract) Avoided Costs with Low Fuel Forecast | | | | | | | | | | | | | |
|---|-----------|----------------------------------|---------|-------------------|-----------|------------|---------------|-----------|-------------------|-----------|------------|------------|------------|
| Year | Energy | Payments to Renewable Facilities | | | | | Avoided Costs | | | | | Difference | |
| | | Capacity | Energy | Performance Bonus | Total | Cumulative | Capacity | Energy | Performance Bonus | Total | Cumulative | Annual | Cumulative |
| | (MWh) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) |
| 2019 | 1,419,120 | | | | | | | | | | | | |
| 2020 | 1,423,010 | | | | | | | | | | | | |
| 2021 | 1,419,120 | | | | | | | | | | | | |
| 2022 | 1,419,120 | | | | | | | | | | | | |
| 2023 | 1,419,120 | | | | | | | | | | | | |
| 2024 | 1,423,010 | | | | | | | | | | | | |
| 2025 | 1,419,120 | | | | | | | | | | | | |
| 2026 | 1,419,120 | | | | | | | | | | | | |
| 2027 | 1,419,120 | | | | | | | | | | | | |
| 2028 | 1,423,010 | | | | | | | | | | | | |
| 2029 | 1,419,120 | | | | | | | | | | | | |
| 2030 | 1,419,120 | | | | | | | | | | | | |
| 2031 | 1,419,120 | | | | | | | | | | | | |
| 2032 | 1,423,010 | | | | | | | | | | | | |
| 2033 | 1,419,120 | | | | | | | | | | | | |
| 2034 | 1,419,120 | | | | | | | | | | | | |
| 2035 | 1,419,120 | | | | | | | | | | | | |
| 2036 | 1,423,010 | | | | | | | | | | | | |
| 2037 | 1,419,120 | | | | | | | | | | | | |
| 2038 | 1,419,120 | | | | | | | | | | | | |
| 2039 | 1,419,120 | | | | | | | | | | | | |
| 2040 | 1,423,010 | | | | | | | | | | | | |
| 2041 | 1,419,120 | | | | | | | | | | | | |
| 2042 | 1,419,120 | | | | | | | | | | | | |
| 2043 | 1,419,120 | | | | | | | | | | | | |
| 2044 | 1,423,010 | | | | | | | | | | | | |
| 2045 | 1,419,120 | | | | | | | | | | | | |
| 2046 | 1,419,120 | | | | | | | | | | | | |
| 2047 | 1,419,120 | | | | | | | | | | | | |
| 2048 | 1,419,120 | | | | | | | | | | | | |
| 2049 | 1,419,120 | | | | | | | | | | | | |
| NPV | | 549,671 | 715,304 | 87,436 | 1,352,411 | | 7,076 | 1,045,173 | - | 1,051,302 | | (301,109) | |

Table 8 - Cost Effectiveness Analysis Page 4 of 6

| (2025 Combined Cycle) Avoided Costs with Baseline Fuel Forecast | | | | | | | | | | | | | |
|---|-----------|----------------------------------|---------|-------------------|-----------|------------|---------------|-----------|-------------------|-----------|------------|------------|------------|
| Year | Energy | Payments to Renewable Facilities | | | | | Avoided Costs | | | | | Difference | |
| | | Capacity | Energy | Performance Bonus | Total | Cumulative | Capacity | Energy | Performance Bonus | Total | Cumulative | Annual | Cumulative |
| | (MWh) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) |
| 2019 | 1,419,120 | | | | | | - | 80,311 | | 80,311 | 80,311 | | |
| 2020 | 1,423,010 | | | | | | - | 88,285 | | 88,285 | 168,596 | | |
| 2021 | 1,419,120 | | | | | | - | 98,061 | | 98,061 | 266,657 | | |
| 2022 | 1,419,120 | | | | | | - | 101,224 | | 101,224 | 367,881 | | |
| 2023 | 1,419,120 | | | | | | - | 95,073 | | 95,073 | 462,954 | | |
| 2024 | 1,423,010 | | | | | | - | 102,559 | | 102,559 | 565,513 | | |
| 2025 | 1,419,120 | | | | | | 11,160 | 94,062 | | 105,222 | 670,735 | | |
| 2026 | 1,419,120 | | | | | | 22,987 | 88,364 | | 111,351 | 782,085 | | |
| 2027 | 1,419,120 | | | | | | 23,836 | 91,361 | | 115,197 | 897,283 | | |
| 2028 | 1,423,010 | | | | | | 24,384 | 94,637 | | 119,021 | 1,016,303 | | |
| 2029 | 1,419,120 | | | | | | 25,583 | 97,489 | | 123,072 | 1,139,375 | | |
| 2030 | 1,419,120 | | | | | | 25,861 | 100,294 | | 126,155 | 1,265,530 | | |
| 2031 | 1,419,120 | | | | | | 26,634 | 103,956 | | 130,590 | 1,396,120 | | |
| 2032 | 1,423,010 | | | | | | 27,642 | 107,650 | | 135,292 | 1,531,413 | | |
| 2033 | 1,419,120 | | | | | | 28,251 | 110,869 | | 139,120 | 1,670,532 | | |
| 2034 | 1,419,120 | | | | | | 30,448 | 114,497 | | 144,946 | 1,815,478 | | |
| 2035 | 1,419,120 | | | | | | 29,966 | 118,245 | | 148,211 | 1,963,689 | | |
| 2036 | 1,423,010 | | | | | | 31,064 | 122,452 | | 153,516 | 2,117,204 | | |
| 2037 | 1,419,120 | | | | | | 31,787 | 126,117 | | 157,904 | 2,275,108 | | |
| 2038 | 1,419,120 | | | | | | 32,738 | 130,248 | | 162,986 | 2,438,094 | | |
| 2039 | 1,419,120 | | | | | | 34,318 | 134,516 | | 168,834 | 2,606,928 | | |
| 2040 | 1,423,010 | | | | | | 34,722 | 139,306 | | 174,028 | 2,780,956 | | |
| 2041 | 1,419,120 | | | | | | 36,024 | 143,480 | | 179,503 | 2,960,459 | | |
| 2042 | 1,419,120 | | | | | | 36,829 | 148,184 | | 185,013 | 3,145,472 | | |
| 2043 | 1,419,120 | | | | | | 37,930 | 153,044 | | 190,975 | 3,336,447 | | |
| 2044 | 1,423,010 | | | | | | 40,796 | 158,498 | | 199,294 | 3,535,741 | | |
| 2045 | 1,419,120 | | | | | | 40,233 | 163,251 | | 203,484 | 3,739,225 | | |
| 2046 | 1,419,120 | | | | | | 41,695 | 168,608 | | 210,303 | 3,949,528 | | |
| 2047 | 1,419,120 | | | | | | 42,679 | 174,142 | | 216,821 | 4,166,349 | | |
| 2048 | 1,419,120 | | | | | | 44,706 | 179,859 | | 224,565 | 4,390,914 | | |
| 2049 | 1,419,120 | | | | | | 45,266 | 185,764 | | 231,030 | 4,621,944 | | |
| NPV | | 549,671 | 715,304 | 87,436 | 1,352,411 | | 207,180 | 1,282,896 | - | 1,490,076 | | 137,665 | |

| (2025 Combined Cycle) Avoided Costs with High Fuel Forecast | | | | | | | | | | | | | |
|---|-----------|----------------------------------|---------|-------------------|-----------|------------|---------------|-----------|-------------------|-----------|------------|------------|------------|
| Year | Energy | Payments to Renewable Facilities | | | | | Avoided Costs | | | | | Difference | |
| | | Capacity | Energy | Performance Bonus | Total | Cumulative | Capacity | Energy | Performance Bonus | Total | Cumulative | Annual | Cumulative |
| | (MWh) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) |
| 2019 | 1,419,120 | | | | | | | | | | | | |
| 2020 | 1,423,010 | | | | | | | | | | | | |
| 2021 | 1,419,120 | | | | | | | | | | | | |
| 2022 | 1,419,120 | | | | | | | | | | | | |
| 2023 | 1,419,120 | | | | | | | | | | | | |
| 2024 | 1,423,010 | | | | | | | | | | | | |
| 2025 | 1,419,120 | | | | | | | | | | | | |
| 2026 | 1,419,120 | | | | | | | | | | | | |
| 2027 | 1,419,120 | | | | | | | | | | | | |
| 2028 | 1,423,010 | | | | | | | | | | | | |
| 2029 | 1,419,120 | | | | | | | | | | | | |
| 2030 | 1,419,120 | | | | | | | | | | | | |
| 2031 | 1,419,120 | | | | | | | | | | | | |
| 2032 | 1,423,010 | | | | | | | | | | | | |
| 2033 | 1,419,120 | | | | | | | | | | | | |
| 2034 | 1,419,120 | | | | | | | | | | | | |
| 2035 | 1,419,120 | | | | | | | | | | | | |
| 2036 | 1,423,010 | | | | | | | | | | | | |
| 2037 | 1,419,120 | | | | | | | | | | | | |
| 2038 | 1,419,120 | | | | | | | | | | | | |
| 2039 | 1,419,120 | | | | | | | | | | | | |
| 2040 | 1,423,010 | | | | | | | | | | | | |
| 2041 | 1,419,120 | | | | | | | | | | | | |
| 2042 | 1,419,120 | | | | | | | | | | | | |
| 2043 | 1,419,120 | | | | | | | | | | | | |
| 2044 | 1,423,010 | | | | | | | | | | | | |
| 2045 | 1,419,120 | | | | | | | | | | | | |
| 2046 | 1,419,120 | | | | | | | | | | | | |
| 2047 | 1,419,120 | | | | | | | | | | | | |
| 2048 | 1,419,120 | | | | | | | | | | | | |
| 2049 | 1,419,120 | | | | | | | | | | | | |
| NPV | | 549,671 | 715,304 | 87,436 | 1,352,411 | | 207,180 | 1,509,622 | - | 1,716,802 | | 364,391 | |

Table 8 - Cost Effectiveness Analysis Page 6 of 6

| (2025 Combined Cycle) Avoided Costs with Low Fuel Forecast | | | | | | | | | | | | | |
|--|-----------|----------------------------------|---------|-------------------|-----------|------------|---------------|-----------|-------------------|-----------|------------|------------|------------|
| Year | Energy | Payments to Renewable Facilities | | | | | Avoided Costs | | | | | Difference | |
| | | Capacity | Energy | Performance Bonus | Total | Cumulative | Capacity | Energy | Performance Bonus | Total | Cumulative | Annual | Cumulative |
| | (MWh) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) | (\$000) |
| 2019 | 1,419,120 | | | | | | | | | | | | |
| 2020 | 1,423,010 | | | | | | | | | | | | |
| 2021 | 1,419,120 | | | | | | | | | | | | |
| 2022 | 1,419,120 | | | | | | | | | | | | |
| 2023 | 1,419,120 | | | | | | | | | | | | |
| 2024 | 1,423,010 | | | | | | | | | | | | |
| 2025 | 1,419,120 | | | | | | | | | | | | |
| 2026 | 1,419,120 | | | | | | | | | | | | |
| 2027 | 1,419,120 | | | | | | | | | | | | |
| 2028 | 1,423,010 | | | | | | | | | | | | |
| 2029 | 1,419,120 | | | | | | | | | | | | |
| 2030 | 1,419,120 | | | | | | | | | | | | |
| 2031 | 1,419,120 | | | | | | | | | | | | |
| 2032 | 1,423,010 | | | | | | | | | | | | |
| 2033 | 1,419,120 | | | | | | | | | | | | |
| 2034 | 1,419,120 | | | | | | | | | | | | |
| 2035 | 1,419,120 | | | | | | | | | | | | |
| 2036 | 1,423,010 | | | | | | | | | | | | |
| 2037 | 1,419,120 | | | | | | | | | | | | |
| 2038 | 1,419,120 | | | | | | | | | | | | |
| 2039 | 1,419,120 | | | | | | | | | | | | |
| 2040 | 1,423,010 | | | | | | | | | | | | |
| 2041 | 1,419,120 | | | | | | | | | | | | |
| 2042 | 1,419,120 | | | | | | | | | | | | |
| 2043 | 1,419,120 | | | | | | | | | | | | |
| 2044 | 1,423,010 | | | | | | | | | | | | |
| 2045 | 1,419,120 | | | | | | | | | | | | |
| 2046 | 1,419,120 | | | | | | | | | | | | |
| 2047 | 1,419,120 | | | | | | | | | | | | |
| 2048 | 1,419,120 | | | | | | | | | | | | |
| 2049 | 1,419,120 | | | | | | | | | | | | |
| NPV | | 549,671 | 715,304 | 87,436 | 1,352,411 | | 207,180 | 1,052,522 | - | 1,259,703 | | (92,709) | |