



Data Assumptions Supplement #2

2019 ELL Integrated Resource Plan



Wind Resource Assumptions

Modeling Assumptions

| | Wind |
|-------------------------------------|-----------|
| Fixed O&M (2017\$/kW-yr) | \$23.46 |
| Useful Life (yr) | 25 |
| MACRS Depreciation (yr) | 5 |
| Annual Capacity Factor ¹ | 36.10% |
| Hub Height (m) | 110 |
| Rotor Diameter (m) | 137 |
| Location Basis ² | Lafayette |
| Modeling Software | NREL SAM |

Notes:

1. Annual capacity factor based on hourly profiles generated by NREL SAM for 5 locations over 3 years (Shreveport, Monroe, Alexandria, Lake Charles, and Lafayette, 2010 through 2012). Hourly profile serves as input into capacity expansion and production cost modeling for ELL wind resources.
2. Profile shape based on Lafayette weather pattern

ELL IRP Load and Capability

| ELL BP18U Reference Load | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ref Non-Coincident Peak | 10,133 | 10,288 | 10,267 | 10,270 | 10,319 | 10,401 | 10,428 | 10,461 | 10,495 | 10,533 | 10,586 | 10,595 | 10,625 | 10,660 | 10,696 | 10,737 | 10,795 | 10,809 | 10,849 | 10,885 |
| Low Non-Coincident Peak | 9,936 | 10,012 | 9,954 | 9,923 | 9,939 | 9,987 | 9,990 | 10,000 | 10,010 | 10,028 | 10,062 | 10,052 | 10,066 | 10,084 | 10,102 | 10,124 | 10,162 | 10,156 | 10,177 | 10,177 |
| High Non-Coincident Peak | 10,202 | 10,393 | 10,386 | 10,403 | 10,463 | 10,559 | 10,593 | 10,633 | 10,675 | 10,719 | 10,776 | 10,792 | 10,828 | 10,868 | 10,909 | 10,953 | 11,012 | 11,026 | 11,067 | 11,103 |
| Ref Total Load (12% RM) | 11,349 | 11,523 | 11,499 | 11,503 | 11,557 | 11,649 | 11,679 | 11,716 | 11,754 | 11,797 | 11,856 | 11,867 | 11,901 | 11,939 | 11,980 | 12,026 | 12,091 | 12,106 | 12,151 | 12,191 |
| Low Total Load (12% RM) | 11,128 | 11,213 | 11,148 | 11,114 | 11,131 | 11,185 | 11,189 | 11,200 | 11,212 | 11,231 | 11,269 | 11,259 | 11,274 | 11,294 | 11,314 | 11,339 | 11,381 | 11,375 | 11,399 | 11,398 |
| High Total Load (12% RM) | 11,426 | 11,640 | 11,633 | 11,651 | 11,718 | 11,826 | 11,864 | 11,909 | 11,956 | 12,005 | 12,069 | 12,087 | 12,127 | 12,172 | 12,218 | 12,267 | 12,333 | 12,349 | 12,395 | 12,435 |
| ELL Resources (MW) | | | | | | | | | | | | | | | | | | | | |
| Owned Resources + Affiliate PPAs | 8,567 | 8,556 | 8,556 | 8,510 | 8,510 | 8,510 | 8,510 | 8,109 | 8,096 | 8,084 | 7,576 | 7,427 | 6,499 | 5,345 | 3,591 | 3,591 | 2,793 | 2,793 | 2,793 | 2,767 |
| Third Party PPAs | 391 | 391 | 391 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 148 | 37 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| LMRs | 333 | 333 | 333 | 333 | 333 | 329 | 329 | 329 | 329 | 329 | 329 | 329 | 329 | 329 | 329 | 329 | 329 | 329 | 329 | 329 |
| Planned Resources | 1,419 | 2,368 | 2,731 | 3,216 | 3,216 | 3,216 | 3,216 | 3,216 | 3,216 | 2,745 | 2,745 | 2,745 | 2,745 | 2,260 | 2,260 | 2,260 | 2,260 | 2,260 | 2,260 | 2,260 |
| SCPS | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 | 923 |
| Carville Renewal | 0 | 0 | 0 | 485 | 485 | 485 | 485 | 485 | 485 | 485 | 485 | 485 | 485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WPEC | 0 | 0 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 | 363 |
| LCPS | 0 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 | 924 |
| Oxy Renewal | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 471 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ELL Renewables RFP 1 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| ELL Renewables RFP 2 | 0 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Total Existing Capacity | 9,290 | 9,279 | 9,279 | 8,991 | 8,991 | 8,988 | 8,988 | 8,586 | 8,573 | 8,561 | 8,054 | 7,905 | 6,865 | 5,683 | 3,921 | 3,921 | 3,122 | 3,122 | 3,122 | 3,096 |
| Total Planned + Existing Capacity | 10,709 | 11,648 | 12,011 | 12,207 | 12,207 | 12,204 | 12,204 | 11,802 | 11,790 | 11,306 | 10,799 | 10,650 | 9,610 | 7,943 | 6,181 | 6,181 | 5,382 | 5,382 | 5,382 | 5,356 |
| Ref Existing Surplus/(Deficit) ² | (2,059) | (2,243) | (2,220) | (2,512) | (2,566) | (2,662) | (2,691) | (3,130) | (3,181) | (3,236) | (3,802) | (3,962) | (5,036) | (6,256) | (8,059) | (8,105) | (8,968) | (8,984) | (9,029) | (9,095) |
| Low Existing Surplus/(Deficit) ² | (1,838) | (1,933) | (1,869) | (2,123) | (2,141) | (2,197) | (2,201) | (2,614) | (2,638) | (2,670) | (3,215) | (3,354) | (4,409) | (5,611) | (7,394) | (7,418) | (8,259) | (8,253) | (8,276) | (8,302) |
| High Existing Surplus/(Deficit) ² | (2,136) | (2,361) | (2,353) | (2,660) | (2,727) | (2,838) | (2,876) | (3,323) | (3,382) | (3,443) | (4,015) | (4,182) | (5,263) | (6,489) | (8,297) | (8,347) | (9,211) | (9,227) | (9,272) | (9,339) |
| Ref Planned Surplus/(Deficit) ³ | (640) | 125 | 512 | 704 | 650 | 555 | 525 | 86 | 36 | (491) | (1,057) | (1,217) | (2,291) | (3,996) | (5,799) | (5,845) | (6,709) | (6,724) | (6,769) | (6,835) |
| Low Planned Surplus/(Deficit) ³ | (419) | 435 | 863 | 1,093 | 1,076 | 1,019 | 1,015 | 602 | 578 | 75 | (470) | (609) | (1,664) | (3,351) | (5,133) | (5,158) | (5,999) | (5,993) | (6,017) | (6,042) |
| High Planned Surplus/(Deficit) ³ | (717) | 8 | 378 | 556 | 489 | 378 | 340 | (107) | (166) | (699) | (1,270) | (1,437) | (2,517) | (4,229) | (6,037) | (6,086) | (6,951) | (6,967) | (7,013) | (7,079) |

Notes:

1. Supply deficit assuming ELL's existing resources only
2. Supply deficit assuming ELL's existing resources plus Planned Resources as listed in the table above