

2019 Supply Side Table (2018\$)

| Description | | Resource Characteristics | | | | Costs | | | Operating Characteristics | | | | Environmental | | | | |
|-------------|----------------------------------|--------------------------|-------------------|---------------------------|-------------------|----------------------|------------------|----------------------|--|-----|----------|---------|--------------------------|-----------------|-----------------|---------------|-----------------|
| Fuel | Resource | Elevation (AFSL) | Net Capacity (MW) | Commercial Operation Year | Design Life (yrs) | Base Capital (\$/KW) | Var O&M (\$/MWh) | Fixed O&M (\$/KW-yr) | Average Full Load Heat Rate (HHV Btu/KWh)/Efficiency | | EFOR (%) | POR (%) | Water Consumed (Gal/MWh) | SO2 (lbs/MMBtu) | NOx (lbs/MMBtu) | Hg (lbs/TBTu) | CO2 (lbs/MMBtu) |
| Natural Gas | SCCT Aero x3, ISO | 0 | 142 | 2023 | 30 | 1,570 | 7.54 | 27.14 | 9279 | 2.6 | 3.9 | 58 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | Intercooled SCCT Aero x2, ISO | 0 | 231 | 2023 | 30 | 1,092 | 5.05 | 18.78 | 8725 | 2.9 | 3.9 | 80 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | SCCT Frame "F" x1, ISO | 0 | 233 | 2023 | 35 | 704 | 5.50 | 13.28 | 9811 | 2.7 | 3.9 | 20 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | IC Recips x 6, ISO | 0 | 111 | 2023 | 35 | 1,810 | 7.45 | 29.82 | 8272 | 2.5 | 5.0 | 5 | 0.0006 | 0.0288 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 1x1, ISO | 0 | 419 | 2024 | 40 | 1,469 | 1.76 | 20.52 | 6847 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 1x1, ISO | 0 | 51 | 2024 | 40 | 478 | 0.15 | 5.39 | 6847 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 2x1, ISO | 0 | 840 | 2025 | 40 | 1,060 | 1.67 | 13.79 | 6861 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 2x1, ISO | 0 | 102 | 2025 | 40 | 365 | 0.16 | 4.44 | 6861 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", 1x1, ISO | 0 | 539 | 2024 | 40 | 1,218 | 1.70 | 17.66 | 6787 | 2.5 | 3.8 | 0 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 1x1, ISO | 0 | 63 | 2024 | 40 | 407 | 0.16 | 4.86 | 6787 | 0.8 | 3.8 | 0 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry, "J/HA.02" 2X1, ISO | 0 | 1,083 | 2025 | 40 | 881 | 1.62 | 12.00 | 6787 | 2.5 | 3.8 | 0 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 2X1, ISO | 0 | 126 | 2025 | 40 | 316 | 0.16 | 4.05 | 6787 | 0.8 | 3.8 | 0 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | SCCT Aero x3 | 1,500 | 138 | 2023 | 30 | 1,612 | 7.76 | 27.96 | 9228 | 2.6 | 3.9 | 58 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | Intercooled SCCT Aero x2 | 1,500 | 221 | 2023 | 30 | 1,143 | 5.35 | 19.88 | 8689 | 2.9 | 3.9 | 80 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | SCCT Frame "F" x1 | 1,500 | 221 | 2023 | 35 | 741 | 5.81 | 14.02 | 9792 | 2.7 | 3.9 | 20 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | IC Recips x 6 | 1,500 | 111 | 2023 | 35 | 1,810 | 7.45 | 29.82 | 8272 | 2.5 | 5.0 | 5 | 0.0006 | 0.0288 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 1x1 | 1,500 | 396 | 2024 | 40 | 1,552 | 1.86 | 21.68 | 6788 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 1x1 | 1,500 | 51 | 2024 | 40 | 478 | 0.15 | 5.39 | 6788 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 2x1 | 1,500 | 795 | 2025 | 40 | 1,120 | 1.77 | 14.57 | 6800 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 2x1 | 1,500 | 102 | 2025 | 40 | 365 | 0.16 | 4.44 | 6800 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", 1x1 | 1,500 | 510 | 2024 | 40 | 1,288 | 1.80 | 18.67 | 6732 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 1x1 | 1,500 | 63 | 2024 | 40 | 407 | 0.16 | 4.86 | 6732 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry, "J/HA.02" 2X1 | 1,500 | 1,023 | 2025 | 40 | 932 | 1.71 | 12.69 | 6732 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 2X1 | 1,500 | 126 | 2025 | 40 | 316 | 0.16 | 4.05 | 6732 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | SCCT Aero x3 | 3,000 | 131 | 2023 | 30 | 1,704 | 8.21 | 29.58 | 9232 | 2.6 | 3.9 | 58 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | Intercooled SCCT Aero x2 | 3,000 | 209 | 2023 | 30 | 1,209 | 5.67 | 21.10 | 8687 | 2.9 | 3.9 | 80 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | SCCT Frame "F" x1 | 3,000 | 210 | 2023 | 35 | 782 | 6.13 | 14.81 | 9799 | 2.7 | 3.9 | 20 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | IC Recips x 6 | 3,000 | 111 | 2023 | 35 | 1,810 | 7.45 | 29.82 | 8273 | 2.5 | 5.0 | 5 | 0.0006 | 0.0288 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 1x1 | 3,000 | 375 | 2024 | 40 | 1,641 | 1.97 | 22.92 | 6762 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 1x1 | 3,000 | 51 | 2024 | 40 | 478 | 0.15 | 5.39 | 6762 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 2x1 | 3,000 | 752 | 2025 | 40 | 1,184 | 1.86 | 15.39 | 6775 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 2x1 | 3,000 | 102 | 2025 | 40 | 365 | 0.16 | 4.44 | 6775 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", 1x1 | 3,000 | 482 | 2024 | 40 | 1,363 | 1.90 | 19.73 | 6690 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 1x1 | 3,000 | 63 | 2024 | 40 | 407 | 0.16 | 4.86 | 6690 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry, "J/HA.02" 2X1 | 3,000 | 967 | 2025 | 40 | 986 | 1.81 | 13.41 | 6692 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 2X1 | 3,000 | 126 | 2025 | 40 | 316 | 0.16 | 4.05 | 6692 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | SCCT Aero x3 | 5,050 | 122 | 2023 | 30 | 1,829 | 8.85 | 31.86 | 9229 | 2.6 | 3.9 | 58 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | Intercooled SCCT Aero x2 | 5,050 | 194 | 2023 | 30 | 1,305 | 6.14 | 22.82 | 8680 | 2.9 | 3.9 | 80 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | SCCT Frame "F" x1 | 5,050 | 194 | 2023 | 35 | 843 | 6.61 | 15.97 | 9805 | 2.7 | 3.9 | 20 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | IC Recips x 6 | 5,050 | 111 | 2023 | 35 | 1,810 | 7.45 | 29.82 | 8280 | 2.5 | 5.0 | 5 | 0.0006 | 0.0288 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 1x1 | 5,050 | 344 | 2024 | 40 | 1,788 | 2.12 | 24.74 | 6510 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 1x1 | 5,050 | 51 | 2024 | 40 | 478 | 0.15 | 5.39 | 6510 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 2x1 | 5,050 | 687 | 2025 | 40 | 1,297 | 2.01 | 16.63 | 6520 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 2x1 | 5,050 | 102 | 2025 | 40 | 365 | 0.16 | 4.44 | 6520 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", 1x1 | 5,050 | 442 | 2024 | 40 | 1,485 | 2.05 | 21.26 | 6464 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 1x1 | 5,050 | 63 | 2024 | 40 | 407 | 0.16 | 4.86 | 6464 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry, "J/HA.02" 2X1 | 5,050 | 884 | 2025 | 40 | 1,079 | 1.95 | 14.45 | 6469 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 2X1 | 5,050 | 126 | 2025 | 40 | 316 | 0.16 | 4.05 | 6469 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | SCCT Aero x3 | 6,500 | 113 | 2023 | 30 | 1,975 | 9.60 | 34.56 | 9209 | 2.6 | 3.9 | 58 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | Intercooled SCCT Aero x2 | 6,500 | 181 | 2023 | 30 | 1,394 | 6.45 | 24.00 | 8694 | 2.9 | 3.9 | 80 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | SCCT Frame "F" x1 | 6,500 | 185 | 2023 | 35 | 887 | 6.96 | 16.81 | 9786 | 2.7 | 3.9 | 20 | 0.0006 | 0.009 | 0.255 | 117 | |
| Natural Gas | IC Recips x 6 | 6,500 | 111 | 2023 | 35 | 1,810 | 7.75 | 31.04 | 8320 | 2.5 | 5.0 | 5 | 0.0006 | 0.0288 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 1x1 | 6,500 | 333 | 2024 | 40 | 1,843 | 2.25 | 26.20 | 6757 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 1x1 | 6,500 | 51 | 2024 | 40 | 478 | 0.15 | 5.39 | 6757 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", 2x1 | 6,500 | 669 | 2025 | 40 | 1,330 | 2.13 | 17.61 | 6772 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "G/H", DF, 2x1 | 6,500 | 102 | 2025 | 40 | 365 | 0.16 | 4.44 | 6772 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", 1x1 | 6,500 | 424 | 2024 | 40 | 1,549 | 2.15 | 22.33 | 6681 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 1x1 | 6,500 | 63 | 2024 | 40 | 407 | 0.16 | 4.86 | 6681 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry, "J/HA.02" 2X1 | 6,500 | 851 | 2025 | 40 | 1,120 | 2.05 | 15.18 | 6681 | 2.5 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |
| Natural Gas | CCCT Dry "J/HA.02", DF, 2X1 | 6,500 | 126 | 2025 | 40 | 316 | 0.16 | 4.06 | 6681 | 0.8 | 3.8 | 11 | 0.0006 | 0.0072 | 0.255 | 117 | |

2019 Supply Side Table (2018\$)

| Description | | Resource Characteristics | | | | Costs | | | Operating Characteristics | | | | Environmental | | | |
|----------------|--|--------------------------|-------------------|---------------------------|-------------------|----------------------|------------------|----------------------|------------------------------------|------------------|---------|--------------------------|-----------------|-----------------|---------------|-----------------|
| Fuel | Resource | Elevation (AFSL) | Net Capacity (MW) | Commercial Operation Year | Design Life (yrs) | Base Capital (\$/KW) | Var O&M (\$/MWh) | Fixed O&M (\$/KW-yr) | Average Full Load | | | Water Consumed (Gal/MWh) | SO2 (lbs/MMBtu) | NOx (lbs/MMBtu) | Hg (lbs/TBTu) | CO2 (lbs/MMBtu) |
| | | | | | | | | | Heat Rate (HHV Btu/KWh)/Efficiency | EFOR (%) | POR (%) | | | | | |
| Coal | SCPC with CCS | 4,500 | 526 | 2036 | 40 | 6,462 | 7.00 | 72.22 | 13087 | 5.0 | 5.0 | 1,004 | 0.009 | 0.070 | 0.022 | 20.5 |
| Coal | IGCC with CCS | 4,500 | 466 | 2036 | 40 | 6,257 | 11.77 | 58.20 | 10823 | 8.0 | 7.0 | 394 | 0.009 | 0.050 | 0.333 | 20.5 |
| Coal | PC CCS retrofit @ 500 MW | 4,500 | -139 | 2033 | 20 | 1,419 | 6.47 | 77.76 | 14372 | 5.0 | 5.0 | 1,004 | 0.005 | 0.070 | 1.200 | 20.5 |
| Coal | SCPC with CCS | 6,500 | 692 | 2036 | 40 | 7,318 | 7.58 | 67.09 | 13242 | 5.0 | 5.0 | 1,004 | 0.009 | 0.070 | 0.022 | 20.5 |
| Coal | IGCC with CCS | 6,500 | 456 | 2036 | 40 | 7,085 | 14.11 | 63.40 | 11047 | 8.0 | 7.0 | 394 | 0.009 | 0.050 | 0.333 | 20.5 |
| Coal | PC CCS retrofit @ 500 MW | 6,500 | -139 | 2031 | 20 | 1,607 | 7.00 | 72.22 | 14372 | 5.0 | 5.0 | 1,004 | 0.005 | 0.070 | 1.200 | 20.5 |
| Geothermal | Blundell Dual Flash 90% CF | 4,500 | 35 | 2021 | 40 | 5,708 | 1.16 | 103.85 | n/a | 5.0 | 5.0 | 10 | n/a | n/a | n/a | n/a |
| Geothermal | Greenfield Binary 90% CF | 4,500 | 43 | 2023 | 40 | 5,973 | 1.16 | 103.85 | n/a | 5.0 | 5.0 | 270 | n/a | n/a | n/a | n/a |
| Geothermal | Generic Geothermal PPA 90% CF | 4,500 | 30 | 2021 | 20 | 0 | 77.34 | 0.00 | n/a | 5.0 | 5.0 | 270 | n/a | n/a | n/a | n/a |
| Wind | 3.6 MW Wind turbine 37.1% CF WA, 2020 (100% PTC) | 4,500 | 200 | 2020 | 30 | 1,354 | 0.00 | 27.99 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind | 3.6 MW Wind turbine 37.1% CF OR, 2020 (100% PTC) | 1,500 | 200 | 2020 | 30 | 1,334 | 0.00 | 27.99 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind | 3.6 MW Wind turbine 37.1% CF ID, 2020 (100% PTC) | 4,500 | 200 | 2020 | 30 | 1,358 | 0.00 | 27.99 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind | 3.6 MW Wind turbine 29.5% CF UT, 2020 (100% PTC) | 6,500 | 200 | 2020 | 30 | 1,301 | 0.00 | 27.99 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind | 3.6 MW Wind turbine 43.6% CF WY, 2020 (100% PTC) | 1,500 | 240 | 2020 | 30 | 1,301 | 0.65 | 27.99 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 100 MWh | 4,500 | 200 | 2023 | 30 | 1,738 | 0.00 | 29.18 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Arlington, OR, 200 MW+ 50 MW 100 MWh | 1,500 | 200 | 2023 | 30 | 1,765 | 0.00 | 29.18 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Monticello, UT, 200 MW+ 50 MW 100 MWh | 4,500 | 200 | 2023 | 30 | 1,735 | 0.00 | 29.18 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 100 MWh | 6,500 | 200 | 2023 | 30 | 1,730 | 0.65 | 29.18 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 100 MWh | 1,500 | 200 | 2023 | 30 | 1,772 | 0.00 | 29.18 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 200 MWh | 4,500 | 200 | 2023 | 30 | 1,880 | 0.00 | 29.88 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Arlington, OR, 200 MW+ 50 MW 200 MWh | 1,500 | 200 | 2023 | 30 | 1,917 | 0.00 | 29.88 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Monticello, UT, 200 MW+ 50 MW 200 MWh | 4,500 | 200 | 2023 | 30 | 1,877 | 0.00 | 29.88 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 200 MWh | 6,500 | 200 | 2023 | 30 | 1,872 | 0.65 | 29.88 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 200 MWh | 1,500 | 200 | 2023 | 30 | 1,924 | 0.00 | 29.88 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 400 MWh | 4,500 | 200 | 2023 | 30 | 2,158 | 0.00 | 31.03 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Arlington, OR, 200 MW+ 50 MW 400 MWh | 1,500 | 200 | 2023 | 30 | 2,214 | 0.00 | 31.03 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Monticello, UT, 200 MW+ 50 MW 400 MWh | 4,500 | 200 | 2023 | 30 | 2,155 | 0.00 | 31.03 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 400 MWh | 6,500 | 200 | 2023 | 30 | 2,150 | 0.65 | 31.03 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Wind + Storage | Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 400 MWh | 1,500 | 200 | 2023 | 30 | 2,221 | 0.00 | 31.03 | 1 | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Idaho Falls, ID, 50 MW, 2021, 28.1% CF (30% ITC) | 4,700 | 50 | 2021 | 25 | 1,366 | 0.00 | 21.72 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Idaho Falls, ID, 200 MW, 2021, 28.1% CF (30% ITC) | 4,700 | 200 | 2021 | 25 | 1,271 | 0.00 | 21.72 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Lakeview, OR, 50 MW, 2021, 29.7% CF (30% ITC) | 4,800 | 50 | 2021 | 25 | 1,424 | 0.00 | 22.35 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Lakeview, OR, 200 MW, 2021, 29.7% CF (30% ITC) | 4,800 | 200 | 2021 | 25 | 1,329 | 0.00 | 22.35 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Milford, UT, 50 MW, 2021, 32.5% CF (30% ITC) | 5,000 | 50 | 2021 | 25 | 1,363 | 0.00 | 22.32 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Milford, UT, 200 MW, 2021, 32.5% CF (30% ITC) | 5,000 | 200 | 2021 | 25 | 1,268 | 0.00 | 22.32 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Rock Springs, WY, 50 MW, 2021, 30.1% CF (30% ITC) | 6,400 | 50 | 2021 | 25 | 1,360 | 0.00 | 21.13 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Rock Springs, WY, 200 MW, 2021, 30.1% CF (30% ITC) | 6,400 | 200 | 2021 | 25 | 1,266 | 0.00 | 21.13 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Yakima, WA, 50 MW, 2021, 26% CF (30% ITC) | 1,000 | 50 | 2021 | 25 | 1,422 | 0.00 | 22.35 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |
| Solar | PV Yakima, WA, 200 MW, 2021, 26% CF (30% ITC) | 1,000 | 200 | 2021 | 25 | 1,327 | 0.00 | 22.35 | n/a | Included with CF | 0 | n/a | n/a | n/a | n/a | n/a |

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|-----------------|--|--------------------------|----------|------------------|-------------------|---------------------------|-------------------|----------------------|------------------------------------|----------------------|-------------------|--------------------|---------------|-------------|------------|-------------|----|-----|---|
| | | Fuel | Resource | Elevation (AFSL) | Net Capacity (MW) | Commercial Operation Year | Design Life (yrs) | Base Capital (\$/KW) | Var O&M (\$/MWh) | Fixed O&M (\$/KW-yr) | Average Full Load | | Water | | SO2 | NOx | Hg | CO2 | |
| | | | | | | | | | Heat Rate (HHV Btu/KWh)/Efficiency | EFOR (%) | POR (%) | Consumed (Gal/MWh) | (lbs/MMBtu) | (lbs/MMBtu) | (lbs/TBtu) | (lbs/MMBtu) | | | |
| Solar + Storage | PV + Stor, Idaho Falls, ID, 50 MW + 10 MW X 20 MWh (30% ITC) | | 4,700 | 50 | 2021 | 25 | 1,628 | 0.00 | 23.48 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 100 MWh (30% ITC) | | 4,700 | 200 | 2021 | 25 | 1,470 | 0.00 | 22.91 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Idaho Falls, ID, 50 MW + 10 MW X 40 MWh (30% ITC) | | 4,700 | 50 | 2021 | 25 | 1,756 | 0.00 | 25.03 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 200 MWh (30% ITC) | | 4,700 | 200 | 2021 | 25 | 1,614 | 0.00 | 24.24 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Idaho Falls, ID, 50 MW + 10 MW X 80 MWh (30% ITC) | | 4,700 | 50 | 2021 | 25 | 1,992 | 0.00 | 26.46 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 400 MWh (30% ITC) | | 4,700 | 200 | 2021 | 25 | 1,897 | 0.00 | 25.36 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Lakeview, OR, 50 MW + 10 MW X 20 MWh (30% ITC) | | 4,800 | 50 | 2021 | 25 | 1,706 | 0.00 | 23.48 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Lakeview, OR, 200 MW + 50 MW X 100 MWh (30% ITC) | | 4,800 | 200 | 2021 | 25 | 1,543 | 0.00 | 22.91 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Lakeview, OR, 50 MW + 10 MW X 40 MWh (30% ITC) | | 4,800 | 50 | 2021 | 25 | 1,844 | 0.00 | 25.03 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Lakeview, OR, 200 MW + 50 MW X 200 MWh (30% ITC) | | 4,800 | 200 | 2021 | 25 | 1,699 | 0.00 | 24.24 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Lakeview, OR, 50 MW + 10 MW X 80 MWh (30% ITC) | | 4,800 | 50 | 2021 | 25 | 2,098 | 0.00 | 26.46 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Lakeview, OR, 200 MW + 50 MW X 400 MWh (30% ITC) | | 4,800 | 200 | 2021 | 25 | 2,004 | 0.00 | 25.36 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Milford, UT, 50 MW + 10 MW X 20 MWh (30% ITC) | | 5,000 | 50 | 2021 | 25 | 1,626 | 0.00 | 23.48 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Milford, UT, 200 MW + 50 MW X 100 MWh (30% ITC) | | 5,000 | 200 | 2021 | 25 | 1,467 | 0.00 | 22.91 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Milford, UT 50 MW + 10 MW X 40 MWh (30% ITC) | | 5,000 | 50 | 2021 | 25 | 1,754 | 0.00 | 25.03 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Milford, UT, 200 MW + 50 MW X 200 MWh (30% ITC) | | 5,000 | 200 | 2021 | 25 | 1,612 | 0.00 | 24.24 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Milford, UT, 50 MW + 10 MW X 80 MWh (30% ITC) | | 5,000 | 50 | 2021 | 25 | 1,990 | 0.00 | 26.46 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Milford, UT, 200 MW + 50 MW X 400 MWh (30% ITC) | | 5,000 | 200 | 2021 | 25 | 1,895 | 0.00 | 25.36 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 20 MWh (30% ITC) | | 6,400 | 50 | 2021 | 25 | 1,623 | 0.00 | 23.48 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 100 MWh (30% ITC) | | 6,400 | 200 | 2021 | 25 | 1,464 | 0.00 | 22.91 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 40 MWh (30% ITC) | | 6,400 | 50 | 2021 | 25 | 1,751 | 0.00 | 25.03 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 200 MWh (30% ITC) | | 6,400 | 200 | 2021 | 25 | 1,609 | 0.00 | 24.24 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 80 MWh (30% ITC) | | 6,400 | 50 | 2021 | 25 | 1,987 | 0.00 | 26.46 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 400 MWh (30% ITC) | | 6,400 | 200 | 2021 | 25 | 1,892 | 0.00 | 25.36 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor., Yakima, WA, 50 MW + 10 MW X 20 MWh (30% ITC) | | 1,000 | 50 | 2021 | 25 | 1,704 | 0.00 | 23.48 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Yakima, WA, 200 MW + 50 MW X 100 MWh (30% ITC) | | 1,000 | 200 | 2021 | 25 | 1,541 | 0.00 | 22.91 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Yakima, WA, 50 MW + 10 MW X 40 MWh (30% ITC) | | 1,000 | 50 | 2021 | 25 | 1,842 | 0.00 | 25.03 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Yakima, WA, 200 MW + 50 MW X 200 MWh (30% ITC) | | 1,000 | 200 | 2021 | 25 | 1,697 | 0.00 | 24.24 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Yakima, WA, 50 MW + 10 MW X 80 MWh (30% ITC) | | 1,000 | 50 | 2021 | 25 | 2,097 | 0.00 | 26.46 | | | | n/a | n/a | n/a | n/a | | | |
| Solar + Storage | PV + Stor, Yakima, WA, 200 MW + 50 MW X 400 MWh (30% ITC) | | 1,000 | 200 | 2021 | 25 | 2,002 | 0.00 | 25.36 | | | | n/a | n/a | n/a | n/a | | | |
| Storage | Oregon PS, 400 MW X 3,800 MWh | | 4,457 | 400 | 2025 | 60 | 3,095 | 0.00 | 16.76 | | | | 79% | 3 | 7 | 0 | 0 | 0 | |
| Storage | Oregon PS joint ownership, 100 MW X 950 MWh | | 4,457 | 100 | 2025 | 60 | 3,099 | 0.00 | 16.76 | | | | 79% | 3 | 7 | 0 | 0 | 0 | |
| Storage | Washington PS, 1,200 MW X 16,800 MWh | | 500 | 1,200 | 2029 | 60 | 2,719 | 0.00 | 12.50 | | | | 79% | 3 | 7 | 0 | 0 | 0 | |
| Storage | Wyoming PS, 700 MW X 7,000 MWh | | 580 | 700 | 2027 | 60 | 3,255 | 0.00 | 17.00 | | | | 79% | 3 | 7 | 0 | 0 | 0 | |
| Storage | Utah PS, 300 MW X 1,800 MWh | | 6,359 | 300 | 2025 | 60 | 2,991 | 0.00 | 17.00 | | | | 79% | 3 | 7 | 0 | 0 | 0 | |
| Storage | Idaho PS, 360 MW X 2,880 MWh | | 5,000 | 360 | 2031 | 60 | 2,680 | 0.00 | 17.00 | | | | 79% | 3 | 7 | 0 | 0 | 0 | |
| Storage | CAES, 320 MW X 15,360 MWh | | 4,600 | 320 | 2022 | 30 | 1,625 | 0.00 | 7.01 | | | | 4230 / 55% | 1 | 3 | 0 | 0 | 117 | |
| Storage | Li-Ion 1 MW X 250 kWh | | 0 | 1 | 2020 | 15 | 1,473 | 11.42 | 8.29 | | | | 88% | 1 | 3 | 0 | 0 | 0 | |
| Storage | Li-Ion 1 MW X 2 MWh | | 0 | 1 | 2020 | 15 | 2,615 | 15.70 | 23.56 | | | | 88% | 1 | 3 | 0 | 0 | 0 | |
| Storage | Li-Ion 1 MW X 4 MWh | | 0 | 1 | 2020 | 15 | 3,412 | 14.98 | 35.23 | | | | 88% | 1 | 3 | 0 | 0 | 0 | |
| Storage | Li-Ion 1 MW X 8 MWh | | 0 | 1 | 2020 | 15 | 5,455 | 14.98 | 52.09 | | | | 88% | 1 | 3 | 0 | 0 | 0 | |
| Storage | Li-Ion 15 MW X 60 MWh | | 0 | 15 | 2020 | 15 | 1,766 | 15.07 | 11.50 | | | | 88% | 1 | 3 | 0 | 0 | 0 | |
| Storage | Flow 1 MW X 6 MWh | | 0 | 1 | 2021 | 15 | 3,996 | 0.00 | 32.00 | | | | 65% | 2 | 3 | 0 | 0 | 0 | |
| Nuclear | Advanced Fission | | 5,000 | 2,234 | 2030 | 40 | 6,765 | 11.75 | 101.62 | | | | 10,710 | 7.7 | 7.3 | 96 | 0 | 0 | 0 |
| Nuclear | Small Modular Reactor x 12 | | 5,000 | 570 | 2028 | 40 | 6,028 | 15.50 | 173.35 | | | | 10,710 | 7.7 | 7.3 | 65 | 0 | 0 | 0 |

2019 Supply Side Table (2018\$)

| Resource Description | Elevation (AFSL) | Capital Cost \$/kW | | | Fixed Cost | | | | | |
|----------------------------------|------------------|---------------------------------|-----------------------------|---------------------------|--------------------|---------------------|------------------------------|---------------------------------|-------|------------------------|
| | | Total Capital Cost ¹ | Payment Factor ¹ | Annual Payment (\$/kW-Yr) | Fixed O&M \$/kW-Yr | | | | | Total Fixed (\$/kW-Yr) |
| | | | | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Gas Transportation ¹ | Total | |
| | | | | | | | | | | |
| SCCT Aero x3, ISO | 0 | \$1,570 | 7.411% | \$116.34 | 27.14 | 1.262% | 0.34 | 31.94 | 59.42 | \$175.76 |
| Intercooled SCCT Aero x2, ISO | 0 | \$1,092 | 7.411% | \$80.97 | 18.78 | 0.273% | 0.05 | 30.03 | 48.87 | \$129.84 |
| SCCT Frame "F" x1, ISO | 0 | \$704 | 6.959% | \$48.96 | 13.28 | 1.135% | 0.15 | 33.77 | 47.21 | \$96.17 |
| IC Recips x 6, ISO | 0 | \$1,810 | 6.959% | \$125.94 | 29.82 | 0.136% | 0.04 | 28.47 | 58.33 | \$184.27 |
| CCCT Dry "G/H", 1x1, ISO | 0 | \$1,469 | 6.790% | \$99.72 | 20.52 | 0.146% | 0.03 | 23.57 | 44.12 | \$143.84 |
| CCCT Dry "G/H", DF, 1x1, ISO | 0 | \$478 | 6.790% | \$32.45 | 5.39 | 0.000% | 0.00 | 23.57 | 28.96 | \$61.42 |
| CCCT Dry "G/H", 2x1, ISO | 0 | \$1,060 | 6.790% | \$71.98 | 13.79 | 0.146% | 0.02 | 23.62 | 37.43 | \$109.41 |
| CCCT Dry "G/H", DF, 2x1, ISO | 0 | \$365 | 6.790% | \$24.75 | 4.44 | 0.000% | 0.00 | 23.62 | 28.05 | \$52.81 |
| CCCT Dry "J/HA.02", 1x1, ISO | 0 | \$1,218 | 6.790% | \$82.69 | 17.66 | 0.000% | 0.00 | 23.36 | 41.02 | \$123.70 |
| CCCT Dry "J/HA.02", DF, 1x1, ISO | 0 | \$407 | 6.790% | \$27.67 | 4.86 | 0.000% | 0.00 | 23.36 | 28.22 | \$55.89 |
| CCCT Dry, "J/HA.02" 2X1, ISO | 0 | \$881 | 6.790% | \$59.80 | 12.00 | 0.146% | 0.02 | 23.36 | 35.38 | \$95.18 |
| CCCT Dry "J/HA.02", DF, 2X1, ISO | 0 | \$316 | 6.790% | \$21.45 | 4.05 | 0.000% | 0.00 | 23.36 | 27.42 | \$48.86 |
| SCCT Aero x3 | 1,500 | \$1,612 | 7.411% | \$119.50 | 27.96 | 1.262% | 0.35 | 31.76 | 60.07 | \$179.57 |
| Intercooled SCCT Aero x2 | 1,500 | \$1,143 | 7.411% | \$84.71 | 19.88 | 0.273% | 0.05 | 29.91 | 49.85 | \$134.56 |
| SCCT Frame "F" x1 | 1,500 | \$741 | 6.959% | \$51.54 | 14.02 | 1.135% | 0.16 | 33.71 | 47.89 | \$99.43 |
| IC Recips x 6 | 1,500 | \$1,810 | 6.959% | \$125.94 | 29.82 | 0.136% | 0.04 | 28.47 | 58.33 | \$184.27 |
| CCCT Dry "G/H", 1x1 | 1,500 | \$1,552 | 6.790% | \$105.38 | 21.68 | 0.146% | 0.03 | 23.37 | 45.08 | \$150.46 |
| CCCT Dry "G/H", DF, 1x1 | 1,500 | \$478 | 6.790% | \$32.45 | 5.39 | 0.000% | 0.00 | 23.37 | 28.76 | \$61.21 |
| CCCT Dry "G/H", 2x1 | 1,500 | \$1,120 | 6.790% | \$76.07 | 14.57 | 0.146% | 0.02 | 23.41 | 38.00 | \$114.07 |
| CCCT Dry "G/H", DF, 2x1 | 1,500 | \$365 | 6.790% | \$24.75 | 4.44 | 0.000% | 0.00 | 23.41 | 27.84 | \$52.60 |
| CCCT Dry "J/HA.02", 1x1 | 1,500 | \$1,288 | 6.790% | \$87.46 | 18.67 | 0.000% | 0.00 | 23.17 | 41.84 | \$129.30 |
| CCCT Dry "J/HA.02", DF, 1x1 | 1,500 | \$407 | 6.790% | \$27.67 | 4.86 | 0.000% | 0.00 | 23.17 | 28.03 | \$55.70 |
| CCCT Dry, "J/HA.02" 2X1 | 1,500 | \$932 | 6.790% | \$63.30 | 12.69 | 0.146% | 0.02 | 23.17 | 35.88 | \$99.17 |
| CCCT Dry "J/HA.02", DF, 2X1 | 1,500 | \$316 | 6.790% | \$21.45 | 4.05 | 0.000% | 0.00 | 23.17 | 27.23 | \$48.67 |

2019 Supply Side Table (2018\$)

| Resource Description | Elevation (AFSL) | Capital Cost \$/kW | | | Fixed Cost | | | | | |
|-----------------------------|------------------|---------------------------------|-----------------------------|---------------------------|--------------------|---------------------|------------------------------|---------------------------------|-------|------------------------|
| | | Total Capital Cost ¹ | Payment Factor ¹ | Annual Payment (\$/kW-Yr) | Fixed O&M \$/kW-Yr | | | | | Total Fixed (\$/kW-Yr) |
| | | | | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Gas Transportation ¹ | Total | |
| | | | | | | | | | | |
| SCCT Aero x3 | 3,000 | \$1,704 | 7.411% | \$126.26 | 29.58 | 1.262% | 0.37 | 16.94 | 46.89 | \$173.15 |
| Intercooled SCCT Aero x2 | 3,000 | \$1,209 | 7.411% | \$89.58 | 21.10 | 0.273% | 0.06 | 15.94 | 37.10 | \$126.68 |
| SCCT Frame "F" x1 | 3,000 | \$782 | 6.959% | \$54.43 | 14.81 | 1.135% | 0.17 | 17.98 | 32.95 | \$87.38 |
| IC Recips x 6 | 3,000 | \$1,810 | 6.959% | \$125.94 | 29.82 | 0.136% | 0.04 | 15.18 | 45.03 | \$170.97 |
| CCCT Dry "G/H", 1x1 | 3,000 | \$1,641 | 6.790% | \$111.41 | 22.92 | 0.146% | 0.03 | 23.28 | 46.23 | \$157.64 |
| CCCT Dry "G/H", DF, 1x1 | 3,000 | \$478 | 6.790% | \$32.45 | 5.39 | 0.000% | 0.00 | 23.28 | 28.67 | \$61.12 |
| CCCT Dry "G/H", 2x1 | 3,000 | \$1,184 | 6.790% | \$80.42 | 15.39 | 0.146% | 0.02 | 12.43 | 27.85 | \$108.27 |
| CCCT Dry "G/H", DF, 2x1 | 3,000 | \$365 | 6.790% | \$24.75 | 4.44 | 0.000% | 0.00 | 12.43 | 16.87 | \$41.62 |
| CCCT Dry "J/HA.02", 1x1 | 3,000 | \$1,363 | 6.790% | \$92.58 | 19.73 | 0.000% | 0.00 | 12.27 | 32.01 | \$124.58 |
| CCCT Dry "J/HA.02", DF, 1x1 | 3,000 | \$407 | 6.790% | \$27.67 | 4.86 | 0.000% | 0.00 | 12.27 | 17.13 | \$44.80 |
| CCCT Dry, "J/HA.02" 2X1 | 3,000 | \$986 | 6.790% | \$66.98 | 13.41 | 0.146% | 0.02 | 12.28 | 25.71 | \$92.69 |
| CCCT Dry "J/HA.02", DF, 2X1 | 3,000 | \$316 | 6.790% | \$21.45 | 4.05 | 0.000% | 0.00 | 12.28 | 16.33 | \$37.78 |
| SCCT Aero x3 | 5,050 | \$1,829 | 7.411% | \$135.58 | 31.86 | 1.262% | 0.40 | 14.06 | 46.32 | \$181.90 |
| Intercooled SCCT Aero x2 | 5,050 | \$1,305 | 7.411% | \$96.74 | 22.82 | 0.273% | 0.06 | 13.22 | 36.10 | \$132.84 |
| SCCT Frame "F" x1 | 5,050 | \$843 | 6.959% | \$58.69 | 15.97 | 1.135% | 0.18 | 14.93 | 31.08 | \$89.77 |
| IC Recips x 6 | 5,050 | \$1,810 | 6.959% | \$125.94 | 29.82 | 0.136% | 0.04 | 12.61 | 42.47 | \$168.41 |
| CCCT Dry "G/H", 1x1 | 5,050 | \$1,788 | 6.790% | \$121.40 | 24.74 | 0.146% | 0.04 | 9.91 | 34.69 | \$156.09 |
| CCCT Dry "G/H", DF, 1x1 | 5,050 | \$478 | 6.790% | \$32.45 | 5.39 | 0.000% | 0.00 | 9.91 | 15.30 | \$47.76 |
| CCCT Dry "G/H", 2x1 | 5,050 | \$1,297 | 6.790% | \$88.06 | 16.63 | 0.146% | 0.02 | 9.93 | 26.58 | \$114.64 |
| CCCT Dry "G/H", DF, 2x1 | 5,050 | \$365 | 6.790% | \$24.75 | 4.44 | 0.000% | 0.00 | 9.93 | 14.37 | \$39.12 |
| CCCT Dry "J/HA.02", 1x1 | 5,050 | \$1,485 | 6.790% | \$100.84 | 21.26 | 0.000% | 0.00 | 9.84 | 31.10 | \$131.95 |
| CCCT Dry "J/HA.02", DF, 1x1 | 5,050 | \$407 | 6.790% | \$27.67 | 4.86 | 0.000% | 0.00 | 9.84 | 14.70 | \$42.37 |
| CCCT Dry, "J/HA.02" 2X1 | 5,050 | \$1,079 | 6.790% | \$73.29 | 14.45 | 0.146% | 0.02 | 9.85 | 24.33 | \$97.61 |
| CCCT Dry "J/HA.02", DF, 2X1 | 5,050 | \$316 | 6.790% | \$21.45 | 4.05 | 0.000% | 0.00 | 9.85 | 13.91 | \$35.35 |

2019 Supply Side Table (2018\$)

| Resource Description | Elevation (AFSL) | Capital Cost \$/kW | | | Fixed Cost | | | | | |
|--|------------------|---------------------------------|-----------------------------|---------------------------|--------------------|---------------------|------------------------------|---------------------------------|--------|------------------------|
| | | Total Capital Cost ¹ | Payment Factor ¹ | Annual Payment (\$/kW-Yr) | Fixed O&M \$/kW-Yr | | | | | Total Fixed (\$/kW-Yr) |
| | | | | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Gas Transportation ¹ | Total | |
| SCCT Aero x3 | 6,500 | \$1,975 | 7.411% | \$146.35 | 34.56 | 1.262% | 0.44 | 9.13 | 44.13 | \$190.47 |
| Intercooled SCCT Aero x2 | 6,500 | \$1,394 | 7.411% | \$103.31 | 24.00 | 0.273% | 0.07 | 8.62 | 32.68 | \$136.00 |
| SCCT Frame "F" x1 | 6,500 | \$887 | 6.959% | \$61.71 | 16.81 | 1.135% | 0.19 | 9.70 | 26.70 | \$88.42 |
| IC Recips x 6 | 6,500 | \$1,810 | 6.959% | \$125.94 | 31.04 | 0.136% | 0.04 | 8.24 | 39.33 | \$165.27 |
| CCCT Dry "G/H", 1x1 | 6,500 | \$1,843 | 6.790% | \$125.17 | 26.20 | 0.146% | 0.04 | 20.66 | 46.90 | \$172.07 |
| CCCT Dry "G/H", DF, 1x1 | 6,500 | \$478 | 6.790% | \$32.45 | 5.39 | 0.000% | 0.00 | 20.66 | 26.05 | \$58.50 |
| CCCT Dry "G/H", 2x1 | 6,500 | \$1,330 | 6.790% | \$90.33 | 17.61 | 0.146% | 0.03 | 6.71 | 24.34 | \$114.67 |
| CCCT Dry "G/H", DF, 2x1 | 6,500 | \$365 | 6.790% | \$24.75 | 4.44 | 0.000% | 0.00 | 6.71 | 11.15 | \$35.90 |
| CCCT Dry "J/HA.02", 1x1 | 6,500 | \$1,549 | 6.790% | \$105.16 | 22.33 | 0.000% | 0.00 | 6.62 | 28.95 | \$134.11 |
| CCCT Dry "J/HA.02", DF, 1x1 | 6,500 | \$407 | 6.790% | \$27.67 | 4.86 | 0.000% | 0.00 | 6.62 | 11.48 | \$39.15 |
| CCCT Dry, "J/HA.02" 2X1 | 6,500 | \$1,120 | 6.790% | \$76.08 | 15.18 | 0.146% | 0.02 | 6.62 | 21.82 | \$97.90 |
| CCCT Dry "J/HA.02", DF, 2X1 | 6,500 | \$316 | 6.790% | \$21.45 | 4.06 | 0.000% | 0.00 | 6.62 | 10.68 | \$32.12 |
| Blundell Dual Flash 90% CF | 4,500 | \$5,708 | 6.185% | \$0.00 | 103.85 | 0.918% | 0.95 | 0.00 | 104.80 | \$104.80 |
| Generic Geothermal PPA 90% CF | 4,500 | \$0 | 6.185% | \$0.00 | 0.00 | 0.000% | 0.00 | 0.00 | 0.00 | \$0.00 |
| 3.6 MW Wind turbine 37.1% CF WA, 2020 (100% PTC) | 4,500 | \$1,354 | 6.899% | \$93.42 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$122.22 |
| 3.6 MW Wind turbine 37.1% CF OR, 2020 (100% PTC) | 1,500 | \$1,334 | 6.899% | \$92.01 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$120.81 |
| 3.6 MW Wind turbine 37.1% CF ID, 2020 (100% PTC) | 4,500 | \$1,358 | 6.899% | \$93.71 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$122.52 |
| 3.6 MW Wind turbine 29.5% CF UT, 2020 (100% PTC) | 6,500 | \$1,301 | 6.899% | \$89.79 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$118.59 |
| 3.6 MW Wind turbine 43.6% CF WY, 2020 (100% PTC) | 1,500 | \$1,301 | 6.899% | \$89.79 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$118.59 |
| 2.0 MW Wind turbine 37.1% CF WA,2023 (40% PTC) | 4,500 | \$1,354 | 6.899% | \$93.42 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$122.22 |
| 2.0 MW Wind turbine 37.1% CF OR, 2023 (40% PTC) | 1,500 | \$1,334 | 6.899% | \$92.01 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$120.81 |
| 2.0 MW Wind turbine 37.1% CF ID, 2023 (40% PTC) | 4,500 | \$1,358 | 6.899% | \$93.71 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$122.52 |
| 2.0 MW Wind turbine 29.5% CF UT, 2023 (40% PTC) | 6,500 | \$1,301 | 6.899% | \$89.79 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$118.59 |
| 3.3 MW Wind turbine 43.6% CF WY, 2023 (40% PTC) | 1,500 | \$1,301 | 6.899% | \$89.79 | 27.99 | 2.902% | 0.81 | 0.00 | 28.80 | \$118.59 |
| Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 200 MWh | 4,500 | \$1,880 | 6.899% | \$129.66 | 29.88 | 2.902% | 0.87 | 0.00 | 30.74 | \$160.41 |
| Wind + Stor, Arlington, OR, 200 MW+ 50 MW 200 MWh | 1,500 | \$1,917 | 6.899% | \$132.26 | 29.88 | 2.902% | 0.87 | 0.00 | 30.74 | \$163.00 |
| Wind + Stor, Monticello, UT, 200 MW+ 50 MW 200 MWh | 4,500 | \$1,877 | 6.899% | \$129.51 | 29.88 | 2.902% | 0.87 | 0.00 | 30.74 | \$160.25 |
| Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 200 MWh | 6,500 | \$1,872 | 6.899% | \$129.12 | 29.88 | 2.902% | 0.87 | 0.00 | 30.74 | \$159.86 |
| Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 200 MWh | 1,500 | \$1,924 | 6.899% | \$132.71 | 29.88 | 2.902% | 0.87 | 0.00 | 30.74 | \$163.45 |
| PV Idaho Falls, ID, 200 MW, 2021, 28.1% CF (30% ITC) | 4,500 | \$1,271 | 7.712% | \$98.02 | 21.72 | 1.379% | 0.30 | 0.00 | 22.02 | \$120.04 |
| PV Lakeview, OR, 200 MW, 2021, 29.7% CF (30% ITC) | 4,800 | \$1,329 | 7.712% | \$102.53 | 22.35 | 1.379% | 0.31 | 0.00 | 22.66 | \$125.19 |
| PV Milford, UT, 200 MW, 2021, 32.5% CF (30% ITC) | 4,500 | \$1,268 | 7.712% | \$97.83 | 22.32 | 1.379% | 0.31 | 0.00 | 22.63 | \$120.46 |
| PV Rock Springs, WY, 200 MW, 2021, 30.1% CF (30% ITC) | 4,800 | \$1,266 | 7.712% | \$97.62 | 21.13 | 1.379% | 0.29 | 0.00 | 21.42 | \$119.04 |
| PV Yakima, WA, 200 MW, 2021, 26% CF (30% ITC) | 4,802 | \$1,327 | 7.712% | \$102.36 | 22.35 | 1.379% | 0.31 | 0.00 | 22.66 | \$125.02 |

2019 Supply Side Table (2018\$)

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Elevation (AFSL) | Capital Cost \$/kW | | | Fixed Cost | | | | | |
|---|---------------------|---------------------------------------|--------------------------------|---------------------------------|--------------------|------------------------|---------------------------------|------------------------------------|--------|---------------------------|
| | | Total Capital Cost ¹ | Payment Factor ¹ | Annual Payment (\$/kW-Yr) | Fixed O&M \$/kW-Yr | | | | | Total Fixed (\$/kW-Yr) |
| | | | | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Gas Transportation ¹ | Total | |
| Resource Description | | | | | | | | | | |
| PV Idaho Falls, ID, 200 MW, 2026, 28.1% CF (10% ITC) | 4,802 | \$1,271 | 7.712% | \$98.02 | 21.72 | 1.379% | 0.30 | 0.00 | 22.02 | \$120.04 |
| PV Lakeview, OR, 200 MW, 2026, 29.7% CF (10% ITC) | 4,802 | \$1,329 | 7.712% | \$102.53 | 22.35 | 1.379% | 0.31 | 0.00 | 22.66 | \$125.19 |
| PV Milford, UT, 200 MW, 2026, 32.5% CF (10% ITC) | 4,802 | \$1,268 | 7.712% | \$97.83 | 22.32 | 1.379% | 0.31 | 0.00 | 22.63 | \$120.46 |
| PV Rock Springs, WY, 200 MW, 2026, 30.1% CF (10% ITC) | 4,802 | \$1,266 | 7.712% | \$97.62 | 21.13 | 1.379% | 0.29 | 0.00 | 21.42 | \$119.04 |
| PV Yakima, WA, 200 MW, 2026, 26% CF (10% ITC) | 4,802 | \$1,327 | 7.712% | \$102.36 | 22.35 | 1.379% | 0.31 | 0.00 | 22.66 | \$125.02 |
| PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 200 MWh (30% ITC) | 4,802 | \$1,614 | 7.712% | \$124.48 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$149.05 |
| PV + Stor, Lakeview, OR, 200 MW + 50 MW X 200 MWh (30% ITC) | 4,802 | \$1,699 | 7.712% | \$131.01 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$155.58 |
| PV + Stor., Milford, UT, 200 MW + 50 MW X 200 MWh (30% ITC) | 4,802 | \$1,612 | 7.712% | \$124.29 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$148.86 |
| PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 200 MWh (30% ITC) | 4,802 | \$1,609 | 7.712% | \$124.08 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$148.65 |
| PV + Stor, Yakima, WA, 200 MW + 50 MW X 200 MWh (30% ITC) | 4,802 | \$1,697 | 7.712% | \$130.86 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$155.43 |
| PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 200 MWh (10% ITC) | 4,802 | \$1,614 | 7.712% | \$124.48 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$149.05 |
| PV + Stor, Lakeview, OR, 200 MW + 50 MW X 200 MWh (10% ITC) | 4,802 | \$1,699 | 7.712% | \$131.01 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$155.58 |
| PV + Stor., Milford, UT, 200 MW + 50 MW X 200 MWh (10% ITC) | 4,802 | \$1,612 | 7.712% | \$124.29 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$148.86 |
| PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 200 MWh (10% ITC) | 4,802 | \$1,609 | 7.712% | \$124.08 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$148.65 |
| PV + Stor, Yakima, WA, 200 MW + 50 MW X 200 MWh (10% ITC) | 4,802 | \$1,697 | 7.712% | \$130.86 | 24.24 | 1.379% | 0.33 | 0.00 | 24.57 | \$155.43 |
| Oregon PS, 400 MW X 3,800 MWh | 4,457 | \$3,095 | 6.142% | \$190.09 | 16.76 | 0.000% | 0.00 | 0.00 | 16.76 | \$206.85 |
| Oregon PS joint ownership, 100 MW X 950 MWh | 580 | \$3,099 | 6.142% | \$190.38 | 16.76 | 0.000% | 0.00 | 0.00 | 16.76 | \$207.14 |
| Washington PS, 1,200 MW X 16,800 MWh | 580 | \$2,719 | 6.142% | \$166.98 | 12.50 | 0.000% | 0.00 | 0.00 | 12.50 | \$179.48 |
| Wyoming PS, 700 MW X 7,000 MWh | 6,359 | \$3,255 | 6.142% | \$199.94 | 17.00 | 0.000% | 0.00 | 0.00 | 17.00 | \$216.94 |
| Utah PS, 300 MW X 1,800 MWh | 6,360 | \$2,991 | 6.142% | \$183.72 | 17.00 | 0.000% | 0.00 | 0.00 | 17.00 | \$200.72 |
| Idaho PS, 360 MW X 2,880 MWh | 6,361 | \$2,680 | 6.142% | \$164.61 | 17.00 | 0.000% | 0.00 | 0.00 | 17.00 | \$181.61 |
| CAES, 320 MW X 15,360 MWh | 4,640 | \$1,625 | 7.411% | \$120.41 | 7.01 | 0.000% | 0.00 | 0.00 | 7.01 | \$127.41 |
| Li-Ion 15 MW X 60 MWh | 6,359 | \$1,766 | 11.126% | \$196.44 | 11.50 | 0.000% | 0.00 | 0.00 | 11.50 | \$207.93 |
| Advanced Fission | 5,000 | \$6,765 | 6.639% | \$449.13 | 101.62 | 5.687% | 5.78 | 0.00 | 107.40 | \$556.53 |
| Small Modular Reactor x 12 | 5,000 | \$6,028 | 6.639% | \$400.24 | 173.35 | 11.228% | 19.46 | 0.00 | 192.82 | \$593.06 |

¹ Input into IRP SO and PAR Model
Results presented without credits
Information Presented is Illustrative

2019 Supply Side Table (2018\$)

Brownfield Sites

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Elevation (AFSL) | Capital Cost \$/kW | | | Fixed Cost | | | | | |
|---|---------------------|---------------------------------------|--------------------------------|---------------------------------|--------------------|------------------------|---------------------------------|------------------------------------|-------|------------------------------|
| | | Total Capital Cost ¹ | Payment Factor ¹ | Annual Payment (\$/kW-Yr) | Fixed O&M \$/kW-Yr | | | | | Total Fixed (\$/kW-Yr) |
| | | | | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Gas Transportation ¹ | Total | |
| Resource Description | | | | | | | | | | |
| Dave Johnston | | | | | | | | | | |
| SCCT Aero x3 | 5,050 | \$1,626 | 7.411% | \$120.52 | 31.86 | 1.262% | 0.40 | 28.22 | 60.48 | \$181.00 |
| Intercooled SCCT Aero x2 | 5,050 | \$1,177 | 7.411% | \$87.27 | 22.82 | 0.273% | 0.06 | 26.54 | 49.42 | \$136.69 |
| SCCT Frame "F" x1 | 5,050 | \$709 | 6.959% | \$49.31 | 15.97 | 1.135% | 0.18 | 29.98 | 46.12 | \$95.43 |
| IC Recips x 6 | 5,050 | \$1,577 | 6.959% | \$109.72 | 29.82 | 0.136% | 0.04 | 25.31 | 55.17 | \$164.89 |
| CCCT Dry "G/H", 1x1 | 5,050 | \$1,604 | 6.790% | \$108.90 | 24.74 | 0.146% | 0.04 | 19.90 | 44.68 | \$153.58 |
| CCCT Dry "G/H", DF, 1x1 | 5,050 | \$429 | 6.790% | \$29.11 | 5.39 | 0.000% | 0.00 | 19.90 | 25.29 | \$54.41 |
| CCCT Dry "J/HA.02", 1x1 | 5,050 | \$1,342 | 6.790% | \$91.12 | 21.26 | 0.000% | 0.00 | 19.76 | 41.02 | \$132.14 |
| CCCT Dry "J/HA.02", DF, 1x1 | 5,050 | \$368 | 6.790% | \$25.00 | 4.86 | 0.000% | 0.00 | 19.76 | 24.62 | \$49.62 |
| Hunter | | | | | | | | | | |
| SCCT Aero x3 | 5,050 | \$1,626 | 7.411% | \$120.52 | 31.86 | 1.262% | 0.40 | 14.06 | 46.32 | \$166.84 |
| Intercooled SCCT Aero x2 | 5,050 | \$1,177 | 7.411% | \$87.27 | 22.82 | 0.273% | 0.06 | 13.22 | 36.10 | \$123.37 |
| SCCT Frame "F" x1 | 5,050 | \$709 | 6.959% | \$49.31 | 15.97 | 1.135% | 0.18 | 14.93 | 31.08 | \$80.39 |
| IC Recips x 6 | 5,050 | \$1,577 | 6.959% | \$109.72 | 29.82 | 0.136% | 0.04 | 12.61 | 42.47 | \$152.18 |
| CCCT Dry "G/H", 1x1 | 5,050 | \$1,604 | 6.790% | \$108.90 | 24.74 | 0.146% | 0.04 | 9.91 | 34.69 | \$143.59 |
| CCCT Dry "G/H", DF, 1x1 | 5,050 | \$429 | 6.790% | \$29.11 | 5.39 | 0.000% | 0.00 | 9.91 | 15.30 | \$44.42 |
| CCCT Dry "J/HA.02", 1x1 | 5,050 | \$1,342 | 6.790% | \$91.12 | 21.26 | 0.000% | 0.00 | 9.84 | 31.10 | \$122.22 |
| CCCT Dry "J/HA.02", DF, 1x1 | 5,050 | \$368 | 6.790% | \$25.00 | 4.86 | 0.000% | 0.00 | 9.84 | 14.70 | \$39.70 |
| Huntington | | | | | | | | | | |
| SCCT Aero x3 | 5,050 | \$1,626 | 7.411% | \$120.52 | 31.86 | 1.262% | 0.40 | 14.06 | 46.32 | \$166.84 |
| Intercooled SCCT Aero x2 | 5,050 | \$1,177 | 7.411% | \$87.27 | 22.82 | 0.273% | 0.06 | 13.22 | 36.10 | \$123.37 |
| SCCT Frame "F" x1 | 5,050 | \$709 | 6.959% | \$49.31 | 15.97 | 1.135% | 0.18 | 14.93 | 31.08 | \$80.39 |
| IC Recips x 6 | 5,050 | \$1,577 | 6.959% | \$109.72 | 29.82 | 0.136% | 0.04 | 12.61 | 42.47 | \$152.18 |
| CCCT Dry "G/H", 1x1 | 5,050 | \$1,604 | 6.790% | \$108.90 | 24.74 | 0.146% | 0.04 | 9.91 | 34.69 | \$143.59 |
| CCCT Dry "G/H", DF, 1x1 | 5,050 | \$429 | 6.790% | \$29.11 | 5.39 | 0.000% | 0.00 | 9.91 | 15.30 | \$44.42 |
| CCCT Dry "G/H", 2x1 | 5,050 | \$1,200 | 6.790% | \$81.46 | 16.63 | 0.146% | 0.02 | 9.93 | 26.58 | \$108.04 |
| CCCT Dry "G/H", DF, 2x1 | 5,050 | \$337 | 6.790% | \$22.90 | 4.44 | 0.000% | 0.00 | 9.93 | 14.37 | \$37.27 |
| CCCT Dry "J/HA.02", 1x1 | 5,050 | \$1,342 | 6.790% | \$91.12 | 21.26 | 0.000% | 0.00 | 9.84 | 31.10 | \$122.22 |
| CCCT Dry "J/HA.02", DF, 1x1 | 5,050 | \$368 | 6.790% | \$25.00 | 4.86 | 0.000% | 0.00 | 9.84 | 14.70 | \$39.70 |

2019 Supply Side Table (2018\$)

Brownfield Sites

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Elevation (AFSL) | Capital Cost \$/kW | | | Fixed Cost | | | | | |
|---|---------------------|---------------------------------------|--------------------------------|---------------------------------|--------------------|------------------------|---------------------------------|------------------------------------|-------|---------------------------|
| | | Total Capital Cost ¹ | Payment Factor ¹ | Annual Payment (\$/kW-Yr) | Fixed O&M \$/kW-Yr | | | | | Total Fixed (\$/kW-Yr) |
| | | | | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Gas Transportation ¹ | Total | |
| Resource Description | | | | | | | | | | |
| Jim Bridger | | | | | | | | | | |
| SCCT Aero x3 | 6,500 | \$1,755 | 7.411% | \$130.09 | 34.56 | 1.262% | 0.44 | 9.13 | 44.13 | \$174.22 |
| Intercooled SCCT Aero x2 | 6,500 | \$1,258 | 7.411% | \$93.20 | 24.00 | 0.273% | 0.07 | 8.62 | 32.68 | \$125.88 |
| SCCT Frame "F" x1 | 6,500 | \$745 | 6.959% | \$51.85 | 16.81 | 1.135% | 0.19 | 9.70 | 26.70 | \$78.56 |
| IC Recips x 6 | 6,500 | \$1,577 | 6.959% | \$109.71 | 31.04 | 0.136% | 0.04 | 8.24 | 39.33 | \$149.04 |
| CCCT Dry "G/H", 1x1 | 6,500 | \$1,654 | 6.790% | \$112.29 | 26.20 | 0.146% | 0.04 | 10.29 | 36.53 | \$148.81 |
| CCCT Dry "G/H", DF, 1x1 | 6,500 | \$429 | 6.790% | \$29.11 | 5.39 | 0.000% | 0.00 | 10.29 | 15.68 | \$44.80 |
| CCCT Dry "J/HA.02", 1x1 | 6,500 | \$1,399 | 6.790% | \$95.01 | 22.33 | 0.000% | 0.00 | 6.62 | 28.95 | \$123.97 |
| CCCT Dry "J/HA.02", DF, 1x1 | 6,500 | \$368 | 6.790% | \$25.00 | 4.86 | 0.000% | 0.00 | 6.62 | 11.48 | \$36.48 |
| Naughton | | | | | | | | | | |
| SCCT Aero x3 | 6,500 | \$1,755 | 7.411% | \$130.09 | 34.56 | 1.262% | 0.44 | 14.02 | 49.02 | \$179.11 |
| Intercooled SCCT Aero x2 | 6,500 | \$1,258 | 7.411% | \$93.20 | 24.00 | 0.273% | 0.07 | 13.24 | 37.31 | \$130.51 |
| SCCT Frame "F" x1 | 6,500 | \$745 | 6.959% | \$51.85 | 16.81 | 1.135% | 0.19 | 14.90 | 31.91 | \$83.76 |
| IC Recips x 6 | 6,500 | \$1,577 | 6.959% | \$109.71 | 31.04 | 0.136% | 0.04 | 12.67 | 43.75 | \$153.47 |
| CCCT Dry "J/HA.02", 1x1 | 6,500 | \$1,399 | 6.790% | \$95.01 | 22.33 | 0.000% | 0.00 | 10.17 | 32.51 | \$127.52 |
| CCCT Dry "J/HA.02", DF, 1x1 | 6,500 | \$368 | 6.790% | \$25.00 | 4.86 | 0.000% | 0.00 | 10.17 | 15.03 | \$40.03 |
| Wyodak | | | | | | | | | | |
| SCCT Aero x3 | 6,500 | \$1,755 | 7.411% | \$130.09 | 34.56 | 1.262% | 0.44 | 28.15 | 63.15 | \$193.24 |
| Intercooled SCCT Aero x2 | 6,500 | \$1,258 | 7.411% | \$93.20 | 24.00 | 0.273% | 0.07 | 26.58 | 50.65 | \$143.85 |
| SCCT Frame "F" x1 | 6,500 | \$745 | 6.959% | \$51.85 | 16.81 | 1.135% | 0.19 | 29.92 | 46.92 | \$98.78 |
| IC Recips x 6 | 6,500 | \$1,577 | 6.959% | \$109.71 | 31.04 | 0.136% | 0.04 | 0.00 | 31.08 | \$140.80 |

¹ Input into IRP SO and PAR Model
 Results presented without credits
 Information Presented is Illustrative

2019 Supply Side Table (2018\$)

Resources not Modeled in 2019 IRP

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Elevation (AFSL) | Capital Cost \$/kW | | | Fixed Cost | | | | | |
|---|---------------------|--------------------------|-------------------|---------------------------------|--------------------|------------------------|--------------------|-----------------------|--------|------------------------------|
| | | Total Capital Cost | Payment Factor | Annual Payment (\$/kW-Yr) | Fixed O&M \$/kW-Yr | | | | | Total Fixed (\$/kW-Yr) |
| | | | | | O&M | Capitalized Premium | O&M Capitalized | Gas Transportation | Total | |
| Resource Description | | | | | | | | | | |
| SCPC with CCS | 4,500 | \$6,462 | 6.726% | \$434.61 | 72.22 | 5.541% | 4.00 | 0.00 | 76.23 | \$510.84 |
| IGCC with CCS | 4,500 | \$6,257 | 6.533% | \$408.75 | 58.20 | 0.000% | 0.00 | 0.00 | 58.20 | \$466.95 |
| PC CCS retrofit @ 500 MW | 4,500 | \$1,419 | 6.726% | \$95.42 | 77.76 | 0.000% | 0.00 | 0.00 | 77.76 | \$173.17 |
| SCPC with CCS | 6,500 | \$7,318 | 6.726% | \$492.18 | 67.09 | 5.541% | 0.00 | 0.00 | 67.09 | \$559.27 |
| IGCC with CCS | 6,500 | \$7,085 | 6.533% | \$462.83 | 63.40 | 0.000% | 0.00 | 0.00 | 63.40 | \$526.23 |
| PC CCS retrofit @ 500 MW | 6,500 | \$1,607 | 6.712% | \$107.84 | 72.22 | 0.000% | 0.00 | 0.00 | 72.22 | \$180.07 |
| Greenfield Binary 90% CF | 4,500 | \$5,973 | 6.185% | \$369.45 | 103.85 | 0.918% | 0.95 | 0.00 | 104.80 | \$474.26 |
| Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 100 MWh | 4,500 | \$1,738 | 6.899% | \$119.87 | 29.18 | 2.902% | 0.85 | 0.00 | 30.03 | \$149.90 |
| Wind + Stor, Arlington, OR, 200 MW+ 50 MW 100 MWh | 1,500 | \$1,765 | 6.899% | \$121.79 | 29.18 | 2.902% | 0.85 | 0.00 | 30.03 | \$151.83 |
| Wind + Stor, Monticello, UT, 200 MW+ 50 MW 100 MWh | 4,500 | \$1,735 | 6.899% | \$119.71 | 29.18 | 2.902% | 0.85 | 0.00 | 30.03 | \$149.74 |
| Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 100 MWh | 6,500 | \$1,730 | 6.899% | \$119.32 | 29.18 | 2.902% | 0.85 | 0.00 | 30.03 | \$149.35 |
| Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 100 MWh | 1,500 | \$1,772 | 6.899% | \$122.24 | 29.18 | 2.902% | 0.85 | 0.00 | 30.03 | \$152.27 |
| Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 400 MWh | 4,500 | \$2,158 | 6.899% | \$148.85 | 31.03 | 2.902% | 0.90 | 0.00 | 31.93 | \$180.78 |
| Wind + Stor, Arlington, OR, 200 MW+ 50 MW 400 MWh | 1,500 | \$2,214 | 6.899% | \$152.75 | 31.03 | 2.902% | 0.90 | 0.00 | 31.93 | \$184.68 |
| Wind + Stor, Monticello, UT, 200 MW+ 50 MW 400 MWh | 4,500 | \$2,155 | 6.899% | \$148.69 | 31.03 | 2.902% | 0.90 | 0.00 | 31.93 | \$180.62 |
| Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 400 MWh | 6,500 | \$2,150 | 6.899% | \$148.30 | 31.03 | 2.902% | 0.90 | 0.00 | 31.93 | \$180.23 |
| Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 400 MWh | 1,500 | \$2,221 | 6.899% | \$153.22 | 31.03 | 2.902% | 0.90 | 0.00 | 31.93 | \$185.15 |
| PV Idaho Falls, ID, 50 MW, 28.1% CF (30% ITC) | 4,500 | \$1,366 | 7.712% | \$105.31 | 21.72 | 1.379% | 0.30 | 0.00 | 22.02 | \$127.33 |
| PV Lakeview, OR, 50 MW, 2021, 29.7% CF (30% ITC) | 4,800 | \$1,424 | 7.712% | \$109.83 | 22.35 | 1.379% | 0.31 | 0.00 | 22.66 | \$132.48 |
| PV Milford, UT, 50 MW, 2021, 32.5% CF (30% ITC) | 4,500 | \$1,363 | 7.712% | \$105.12 | 22.32 | 1.379% | 0.31 | 0.00 | 22.63 | \$127.75 |
| PV Rock Springs, WY, 50 MW, 2021, 30.1% CF (30% ITC) | 4,800 | \$1,360 | 7.712% | \$104.91 | 21.13 | 1.379% | 0.29 | 0.00 | 21.42 | \$126.34 |
| PV Yakima, WA, 50 MW, 2021, 26% CF (30% ITC) | 4,801 | \$1,422 | 7.712% | \$109.66 | 22.35 | 1.379% | 0.31 | 0.00 | 22.66 | \$132.31 |
| PV Idaho Falls, ID, 50 MW, 2026, 28.1% CF (10% ITC) | 4,802 | \$1,366 | 7.712% | \$105.31 | 21.72 | 1.379% | 0.30 | 0.00 | 22.02 | \$127.33 |
| PV Lakeview, OR, 50 MW, 2026, 29.7% CF (10% ITC) | 4,802 | \$1,424 | 7.712% | \$109.83 | 22.35 | 1.379% | 0.31 | 0.00 | 22.66 | \$132.48 |
| PV Milford, UT, 50 MW, 2026, 32.5% CF (10% ITC) | 4,802 | \$1,363 | 7.712% | \$105.12 | 22.32 | 1.379% | 0.31 | 0.00 | 22.63 | \$127.75 |
| PV Rock Springs, WY, 50 MW, 2026, 30.1% CF (10% ITC) | 4,802 | \$1,360 | 7.712% | \$104.91 | 21.13 | 1.379% | 0.29 | 0.00 | 21.42 | \$126.34 |

2019 Supply Side Table (2018\$)

Resources not Modeled in 2019 IRP

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Elevation (AFSL) | Capital Cost \$/kW | | | Fixed Cost | | | | | |
|---|---------------------|--------------------------|-------------------|---------------------------------|--------------------|------------------------|--------------------|-----------------------|-------|------------------------------|
| | | Total Capital Cost | Payment Factor | Annual Payment (\$/kW-Yr) | Fixed O&M \$/kW-Yr | | | | | Total Fixed (\$/kW-Yr) |
| | | | | | O&M | Capitalized Premium | O&M Capitalized | Gas Transportation | Total | |
| Resource Description | | | | | | | | | | |
| PV Yakima, WA, 50 MW, 2026, 26% CF (10% ITC) | 4,802 | \$1,422 | 7.712% | \$109.66 | 22.35 | 1.379% | 0.31 | 0.00 | 22.66 | \$132.31 |
| PV + Stor, Idaho Falls, ID, 50 MW + 10 MW X 20 MWh (30% ITC) | 4,802 | \$1,628 | 7.712% | \$125.57 | 23.48 | 1.379% | 0.32 | 0.00 | 23.81 | \$149.37 |
| PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 100 MWh (30% ITC) | 4,802 | \$1,470 | 7.712% | \$113.34 | 22.91 | 1.379% | 0.32 | 0.00 | 23.23 | \$136.57 |
| PV + Stor., Idaho Falls, ID, 50 MW + 10 MW X 40 MWh (30% ITC) | 4,802 | \$1,756 | 7.712% | \$135.46 | 25.03 | 1.379% | 0.35 | 0.00 | 25.38 | \$160.83 |
| PV + Stor, Idaho Falls, ID, 50 MW + 10 MW X 80 MWh (30% ITC) | 4,802 | \$1,992 | 7.712% | \$153.67 | 26.46 | 1.379% | 0.36 | 0.00 | 26.82 | \$180.49 |
| PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 400 MWh (30% ITC) | 4,802 | \$1,897 | 7.712% | \$146.31 | 25.36 | 1.379% | 0.35 | 0.00 | 25.71 | \$172.01 |
| PV + Stor, Lakeview, OR, 50 MW + 10 MW X 20 MWh (30% ITC) | 4,802 | \$1,706 | 7.712% | \$131.56 | 23.48 | 1.379% | 0.32 | 0.00 | 23.81 | \$155.37 |
| PV + Stor, Lakeview, OR, 200 MW + 50 MW X 100 MWh (30% ITC) | 4,802 | \$1,543 | 7.712% | \$119.00 | 22.91 | 1.379% | 0.32 | 0.00 | 23.23 | \$142.23 |
| PV + Stor, Lakeview, OR, 50 MW + 10 MW X 40 MWh (30% ITC) | 4,802 | \$1,844 | 7.712% | \$142.22 | 25.03 | 1.379% | 0.35 | 0.00 | 25.38 | \$167.59 |
| PV + Stor, Lakeview, OR, 50 MW + 10 MW X 80 MWh (30% ITC) | 4,802 | \$2,098 | 7.712% | \$161.83 | 26.46 | 1.379% | 0.36 | 0.00 | 26.82 | \$188.66 |
| PV + Stor., Lakeview, OR, 200 MW + 50 MW X 400 MWh (30% ITC) | 4,802 | \$2,004 | 7.712% | \$154.52 | 25.36 | 1.379% | 0.35 | 0.00 | 25.71 | \$180.23 |
| PV + Stor., Milford, UT, 50 MW + 10 MW X 20 MWh (30% ITC) | 4,802 | \$1,626 | 7.712% | \$125.37 | 23.48 | 1.379% | 0.32 | 0.00 | 23.81 | \$149.18 |
| PV + Stor., Milford, UT, 200 MW + 50 MW X 100 MWh (30% ITC) | 4,802 | \$1,467 | 7.712% | \$113.14 | 22.91 | 1.379% | 0.32 | 0.00 | 23.23 | \$136.37 |
| PV + Stor., Milford, UT 50 MW + 10 MW X 40 MWh (30% ITC) | 4,802 | \$1,754 | 7.712% | \$135.27 | 25.03 | 1.379% | 0.35 | 0.00 | 25.38 | \$160.64 |
| PV + Stor., Milford, UT, 50 MW + 10 MW X 80 MWh (30% ITC) | 4,802 | \$1,990 | 7.712% | \$153.48 | 26.46 | 1.379% | 0.36 | 0.00 | 26.82 | \$180.30 |
| PV + Stor., Milford, UT, 200 MW + 50 MW X 400 MWh (30% ITC) | 4,802 | \$1,895 | 7.712% | \$146.11 | 25.36 | 1.379% | 0.35 | 0.00 | 25.71 | \$171.82 |
| PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 20 MWh (30% ITC) | 4,802 | \$1,623 | 7.712% | \$125.17 | 23.48 | 1.379% | 0.32 | 0.00 | 23.81 | \$148.97 |
| PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 100 MWh (30% ITC) | 4,802 | \$1,464 | 7.712% | \$112.94 | 22.91 | 1.379% | 0.32 | 0.00 | 23.23 | \$136.17 |
| PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 40 MWh (30% ITC) | 4,802 | \$1,751 | 7.712% | \$135.06 | 25.03 | 1.379% | 0.35 | 0.00 | 25.38 | \$160.43 |
| PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 80 MWh (30% ITC) | 4,802 | \$1,987 | 7.712% | \$153.27 | 26.46 | 1.379% | 0.36 | 0.00 | 26.82 | \$180.09 |
| PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 400 MWh (30% ITC) | 4,802 | \$1,892 | 7.712% | \$145.91 | 25.36 | 1.379% | 0.35 | 0.00 | 25.71 | \$171.61 |
| PV + Stor., Yakima, WA, 50 MW + 10 MW X 20 MWh (30% ITC) | 4,802 | \$1,704 | 7.712% | \$131.40 | 23.48 | 1.379% | 0.32 | 0.00 | 23.81 | \$155.21 |
| PV + Stor, Yakima, WA, 200 MW + 50 MW X 100 MWh (30% ITC) | 4,802 | \$1,541 | 7.712% | \$118.85 | 22.91 | 1.379% | 0.32 | 0.00 | 23.23 | \$142.08 |
| PV + Stor, Yakima, WA, 50 MW + 10 MW X 40 MWh (30% ITC) | 4,802 | \$1,842 | 7.712% | \$142.07 | 25.03 | 1.379% | 0.35 | 0.00 | 25.38 | \$167.45 |
| PV + Stor, Yakima, WA, 50 MW + 10 MW X 80 MWh (30% ITC) | 4,802 | \$2,097 | 7.712% | \$161.70 | 26.46 | 1.379% | 0.36 | 0.00 | 26.82 | \$188.53 |
| PV + Stor, Yakima, WA, 200 MW + 50 MW X 400 MWh (30% ITC) | 4,802 | \$2,002 | 7.712% | \$154.39 | 25.36 | 1.379% | 0.35 | 0.00 | 25.71 | \$180.10 |
| Li-Ion 1 MW X 250 kWh | 6,359 | \$1,473 | 11.126% | \$163.90 | 8.29 | 0.000% | 0.00 | 0.00 | 8.29 | \$172.19 |
| Li-Ion 1 MW X 2 MWh | 6,359 | \$2,615 | 11.126% | \$290.96 | 23.56 | 0.000% | 0.00 | 0.00 | 23.56 | \$314.52 |
| Li-Ion 1 MW X 4 MWh | 6,359 | \$3,412 | 11.126% | \$379.58 | 35.23 | 0.000% | 0.00 | 0.00 | 35.23 | \$414.82 |
| Li-Ion 1 MW X 8 MWh | 6,359 | \$5,455 | 11.126% | \$606.91 | 52.09 | 0.000% | 0.00 | 0.00 | 52.09 | \$659.00 |
| Flow 1 MW X 6 MWh | 6,360 | \$3,996 | 11.126% | \$444.59 | 32.00 | 0.000% | 0.00 | 0.00 | 32.00 | \$476.59 |

Total Resource Cost for Supply-Side Resource Options

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Convert to \$/MWh | | | | | | Variable Costs (\$/MWh) | | | | | Total Costs and Credits (\$/MWh) | | | |
|---|----------------------|------------------|------------------------------|----------------------|--------------------|----------------|-------------------------|------------------|---------------------|------------------------------|-------------------------------|----------------------------------|---------------------|------------------------------------|--|
| | Resource Description | Elevation (AFSL) | Capacity Factor ² | Total Fixed (\$/MWh) | Storage Efficiency | Levelized Fuel | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Integration Cost ¹ | Environmental | Total Resource Cost | Credits | |
| | | | | | | ¢/mmBtu | \$/MWh | | | | | | | PTC Tax Credits / ITC (Solar Only) | Total Resource Cost - with PTC / ITC Credits |
| | | | | | | | | | | | | | | | |
| SCCT Aero x3, ISO | 0 | 33% | 60.80 | na | 320 | 29.73 | 7.54 | 11.48% | 0.87 | - | - | 98.93 | - | 98.93 | |
| Intercooled SCCT Aero x2, ISO | 0 | 33% | 44.91 | na | 320 | 27.96 | 5.05 | 13.23% | 0.67 | - | - | 78.59 | - | 78.59 | |
| SCCT Frame "F" x1, ISO | 0 | 33% | 33.27 | na | 320 | 31.44 | 5.50 | 11.48% | 0.63 | - | - | 70.84 | - | 70.84 | |
| IC Recips x 6, ISO | 0 | 33% | 63.74 | na | 320 | 26.51 | 7.45 | 8.73% | 0.65 | - | - | 98.35 | - | 98.35 | |
| CCCT Dry "G/H", 1x1, ISO | 0 | 78% | 21.05 | na | 320 | 21.94 | 1.76 | 10.21% | 0.18 | - | - | 44.93 | - | 44.93 | |
| CCCT Dry "G/H", DF, 1x1, ISO | 0 | 12% | 58.42 | na | 320 | 21.94 | 0.15 | 0.00% | 0.00 | - | - | 80.52 | - | 80.52 | |
| CCCT Dry "G/H", 2x1, ISO | 0 | 78% | 16.01 | na | 320 | 21.99 | 1.67 | 10.79% | 0.18 | - | - | 39.85 | - | 39.85 | |
| CCCT Dry "G/H", DF, 2x1, ISO | 0 | 12% | 50.24 | na | 320 | 21.99 | 0.16 | 0.00% | 0.00 | - | - | 72.38 | - | 72.38 | |
| CCCT Dry "J/HA.02", 1x1, ISO | 0 | 78% | 18.10 | na | 320 | 21.75 | 1.70 | 10.21% | 0.17 | - | - | 41.72 | - | 41.72 | |
| CCCT Dry "J/HA.02", DF, 1x1, ISO | 0 | 12% | 53.17 | na | 320 | 21.75 | 0.16 | 0.00% | 0.00 | - | - | 75.07 | - | 75.07 | |
| CCCT Dry, "J/HA.02" 2X1, ISO | 0 | 78% | 13.93 | na | 320 | 21.75 | 1.62 | 10.79% | 0.17 | - | - | 37.47 | - | 37.47 | |
| CCCT Dry "J/HA.02", DF, 2X1, ISO | 0 | 12% | 46.48 | na | 320 | 21.75 | 0.16 | 0.00% | 0.00 | - | - | 68.39 | - | 68.39 | |
| SCCT Aero x3 | 1500 | 33% | 62.12 | na | 320 | 29.57 | 7.76 | 11.48% | 0.89 | - | - | 100.34 | - | 100.34 | |
| Intercooled SCCT Aero x2 | 1500 | 33% | 46.55 | na | 320 | 27.84 | 5.35 | 13.23% | 0.71 | - | - | 80.45 | - | 80.45 | |
| SCCT Frame "F" x1 | 1500 | 33% | 34.40 | na | 320 | 31.38 | 5.81 | 11.48% | 0.67 | - | - | 72.25 | - | 72.25 | |
| IC Recips x 6 | 1500 | 33% | 63.74 | na | 320 | 26.51 | 7.45 | 8.73% | 0.65 | - | - | 98.35 | - | 98.35 | |
| CCCT Dry "G/H", 1x1 | 1500 | 78% | 22.02 | na | 320 | 21.75 | 1.86 | 10.21% | 0.19 | - | - | 45.82 | - | 45.82 | |
| CCCT Dry "G/H", DF, 1x1 | 1500 | 12% | 58.23 | na | 320 | 21.75 | 0.15 | 0.00% | 0.00 | - | - | 80.14 | - | 80.14 | |
| CCCT Dry "G/H", 2x1 | 1500 | 78% | 16.69 | na | 320 | 21.79 | 1.77 | 10.79% | 0.19 | - | - | 40.44 | - | 40.44 | |
| CCCT Dry "G/H", DF, 2x1 | 1500 | 12% | 50.04 | na | 320 | 21.79 | 0.16 | 0.00% | 0.00 | - | - | 71.98 | - | 71.98 | |
| CCCT Dry "J/HA.02", 1x1 | 1500 | 78% | 18.92 | na | 320 | 21.57 | 1.80 | 10.21% | 0.18 | - | - | 42.48 | - | 42.48 | |
| CCCT Dry "J/HA.02", DF, 1x1 | 1500 | 12% | 52.99 | na | 320 | 21.57 | 0.16 | 0.00% | 0.00 | - | - | 74.71 | - | 74.71 | |
| CCCT Dry, "J/HA.02" 2X1 | 1500 | 78% | 14.51 | na | 320 | 21.57 | 1.71 | 10.79% | 0.18 | - | - | 37.98 | - | 37.98 | |
| CCCT Dry "J/HA.02", DF, 2X1 | 1500 | 12% | 46.30 | na | 320 | 21.57 | 0.16 | 0.00% | 0.00 | - | - | 68.03 | - | 68.03 | |
| SCCT Aero x3 | 3000 | 33% | 59.90 | na | 324 | 29.90 | 8.21 | 11.48% | 0.94 | - | - | 98.95 | - | 98.95 | |
| Intercooled SCCT Aero x2 | 3000 | 33% | 43.82 | na | 324 | 28.14 | 5.67 | 13.23% | 0.75 | - | - | 78.38 | - | 78.38 | |
| SCCT Frame "F" x1 | 3000 | 33% | 30.23 | na | 324 | 31.74 | 6.13 | 11.48% | 0.70 | - | - | 68.80 | - | 68.80 | |
| IC Recips x 6 | 3000 | 33% | 59.14 | na | 324 | 26.80 | 7.45 | 8.73% | 0.65 | - | - | 94.04 | - | 94.04 | |
| CCCT Dry "G/H", 1x1 | 3000 | 78% | 23.07 | na | 324 | 21.90 | 1.97 | 10.21% | 0.20 | - | - | 47.14 | - | 47.14 | |
| CCCT Dry "G/H", DF, 1x1 | 3000 | 12% | 58.15 | na | 324 | 21.90 | 0.15 | 0.00% | 0.00 | - | - | 80.20 | - | 80.20 | |
| CCCT Dry "G/H", 2x1 | 3000 | 78% | 15.85 | na | 324 | 21.94 | 1.86 | 10.79% | 0.20 | - | - | 39.86 | - | 39.86 | |
| CCCT Dry "G/H", DF, 2x1 | 3000 | 12% | 39.60 | na | 324 | 21.94 | 0.16 | 0.00% | 0.00 | - | - | 61.70 | - | 61.70 | |
| CCCT Dry "J/HA.02", 1x1 | 3000 | 78% | 18.23 | na | 324 | 21.67 | 1.90 | 10.21% | 0.19 | - | - | 42.00 | - | 42.00 | |
| CCCT Dry "J/HA.02", DF, 1x1 | 3000 | 12% | 42.62 | na | 324 | 21.67 | 0.16 | 0.00% | 0.00 | - | - | 64.44 | - | 64.44 | |
| CCCT Dry, "J/HA.02" 2X1 | 3000 | 78% | 13.56 | na | 324 | 21.67 | 1.81 | 10.79% | 0.19 | - | - | 37.24 | - | 37.24 | |
| CCCT Dry "J/HA.02", DF, 2X1 | 3000 | 12% | 35.94 | na | 324 | 21.67 | 0.16 | 0.00% | 0.00 | - | - | 57.77 | - | 57.77 | |

Total Resource Cost for Supply-Side Resource Options

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Convert to \$/MWh | | | | | | Variable Costs (\$/MWh) | | | | | Total Costs and Credits (\$/MWh) | | |
|---|-------------------|------------------------------|----------------------|---------------------------------|----------------|--------|-------------------------|---------------------|------------------------------|-------------------------------|---------------|----------------------------------|------------------------------------|--|
| | Elevation (AFSL) | Capacity Factor ² | Total Fixed (\$/MWh) | Storage Efficiency ¹ | Levelized Fuel | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Integration Cost ¹ | Environmental | Total Resource Cost | Credits | |
| | | | | | ¢/mmBtu | \$/MWh | | | | | | | PTC Tax Credits / ITC (Solar Only) | Total Resource Cost - with PTC / ITC Credits |
| | | | | | | | | | | | | | | |
| Resource Description | | | | | | | | | | | | | | |
| SCCT Aero x3 | 5050 | 33% | 62.92 | na | 327 | 30.14 | 8.85 | 11.48% | 1.02 | - | - | 102.93 | - | 102.93 |
| Intercooled SCCT Aero x2 | 5050 | 33% | 45.95 | na | 327 | 28.35 | 6.14 | 13.23% | 0.81 | - | - | 81.25 | - | 81.25 |
| SCCT Frame "F" x1 | 5050 | 33% | 31.05 | na | 327 | 32.02 | 6.61 | 11.48% | 0.76 | - | - | 70.45 | - | 70.45 |
| IC Recips x 6 | 5050 | 33% | 58.26 | na | 327 | 27.04 | 7.45 | 8.73% | 0.65 | - | - | 93.40 | - | 93.40 |
| CCCT Dry "G/H", 1x1 | 5050 | 78% | 22.84 | na | 327 | 21.26 | 2.12 | 10.21% | 0.22 | - | - | 46.45 | - | 46.45 |
| CCCT Dry "G/H", DF, 1x1 | 5050 | 12% | 45.43 | na | 327 | 21.26 | 0.15 | 0.00% | 0.00 | - | - | 66.85 | - | 66.85 |
| CCCT Dry "G/H", 2x1 | 5050 | 78% | 16.78 | na | 327 | 21.29 | 2.01 | 10.79% | 0.22 | - | - | 40.30 | - | 40.30 |
| CCCT Dry "G/H", DF, 2x1 | 5050 | 12% | 37.21 | na | 327 | 21.29 | 0.16 | 0.00% | 0.00 | - | - | 58.66 | - | 58.66 |
| CCCT Dry "J/HA.02", 1x1 | 5050 | 78% | 19.31 | na | 327 | 21.11 | 2.05 | 10.21% | 0.21 | - | - | 42.68 | - | 42.68 |
| CCCT Dry "J/HA.02", DF, 1x1 | 5050 | 12% | 40.31 | na | 327 | 21.11 | 0.16 | 0.00% | 0.00 | - | - | 61.57 | - | 61.57 |
| CCCT Dry, "J/HA.02" 2X1 | 5050 | 78% | 14.29 | na | 327 | 21.13 | 1.95 | 10.79% | 0.21 | - | - | 37.57 | - | 37.57 |
| CCCT Dry "J/HA.02", DF, 2X1 | 5050 | 12% | 33.63 | na | 327 | 21.13 | 0.16 | 0.00% | 0.00 | - | - | 54.91 | - | 54.91 |
| SCCT Aero x3 | 6500 | 33% | 65.89 | na | 320 | 29.50 | 9.60 | 11.48% | 1.10 | - | - | 106.09 | - | 106.09 |
| Intercooled SCCT Aero x2 | 6500 | 33% | 47.04 | na | 320 | 27.85 | 6.45 | 13.23% | 0.85 | - | - | 82.20 | - | 82.20 |
| SCCT Frame "F" x1 | 6500 | 33% | 30.59 | na | 320 | 31.35 | 6.96 | 11.48% | 0.80 | - | - | 69.69 | - | 69.69 |
| IC Recips x 6 | 6500 | 33% | 57.17 | na | 320 | 26.65 | 7.75 | 8.73% | 0.68 | - | - | 92.25 | - | 92.25 |
| CCCT Dry "G/H", 1x1 | 6500 | 78% | 25.18 | na | 320 | 21.64 | 2.25 | 10.21% | 0.23 | - | - | 49.31 | - | 49.31 |
| CCCT Dry "G/H", DF, 1x1 | 6500 | 12% | 55.65 | na | 320 | 21.64 | 0.15 | 0.00% | 0.00 | - | - | 77.45 | - | 77.45 |
| CCCT Dry "G/H", 2x1 | 6500 | 78% | 16.78 | na | 320 | 21.69 | 2.13 | 10.79% | 0.23 | - | - | 40.84 | - | 40.84 |
| CCCT Dry "G/H", DF, 2x1 | 6500 | 12% | 34.15 | na | 320 | 21.69 | 0.16 | 0.00% | 0.00 | - | - | 56.00 | - | 56.00 |
| CCCT Dry "J/HA.02", 1x1 | 6500 | 78% | 19.63 | na | 320 | 21.40 | 2.15 | 10.21% | 0.22 | - | - | 43.39 | - | 43.39 |
| CCCT Dry "J/HA.02", DF, 1x1 | 6500 | 12% | 37.24 | na | 320 | 21.40 | 0.16 | 0.00% | 0.00 | - | - | 58.80 | - | 58.80 |
| CCCT Dry, "J/HA.02" 2X1 | 6500 | 78% | 14.33 | na | 320 | 21.40 | 2.05 | 10.79% | 0.22 | - | - | 38.00 | - | 38.00 |
| CCCT Dry "J/HA.02", DF, 2X1 | 6500 | 12% | 30.56 | na | 320 | 21.40 | 0.16 | 0.00% | 0.00 | - | - | 52.12 | - | 52.12 |
| Blundell Dual Flash 90% CF | 4500 | 90% | 13.26 | na | 0 | - | 1.16 | 0.00% | 0.00 | - | - | 14.42 | (15.55) | (1.14) |
| Generic Geothermal PPA 90% CF | 4500 | 90% | - | na | 0 | - | 77.34 | 0.00% | 0.00 | - | - | 77.34 | - | 77.34 |
| 3.6 MW Wind turbine 37.1% CF WA, 2020 (100% PTC) | 4500 | 37% | 37.61 | na | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 48.54 | (15.55) | 32.98 |
| 3.6 MW Wind turbine 37.1% CF OR, 2020 (100% PTC) | 1500 | 37% | 37.17 | na | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 48.10 | (15.55) | 32.55 |
| 3.6 MW Wind turbine 37.1% CF ID, 2020 (100% PTC) | 4500 | 37% | 37.70 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 38.63 | (15.55) | 23.07 |
| 3.6 MW Wind turbine 29.5% CF UT, 2020 (100% PTC) | 6500 | 30% | 45.89 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 46.82 | (15.55) | 31.27 |
| 3.6 MW Wind turbine 43.6% CF WY, 2020 (100% PTC) | 1500 | 44% | 31.05 | na | 0 | - | 0.65 | 0.00% | 0.00 | 0.93 | - | 32.63 | (15.55) | 17.08 |
| 2.0 MW Wind turbine 37.1% CF WA,2023 (40% PTC) | 4500 | 37% | 37.61 | na | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 48.54 | (6.22) | 42.31 |
| 2.0 MW Wind turbine 37.1% CF OR, 2023 (40% PTC) | 1500 | 37% | 37.17 | na | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 48.10 | (6.22) | 41.88 |
| 2.0 MW Wind turbine 37.1% CF ID, 2023 (40% PTC) | 4500 | 37% | 37.70 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 38.63 | (6.22) | 32.41 |
| 2.0 MW Wind turbine 29.5% CF UT, 2023 (40% PTC) | 6500 | 30% | 45.89 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 46.82 | (6.22) | 40.60 |
| 3.3 MW Wind turbine 43.6% CF WY, 2023 (40% PTC) | 1500 | 44% | 31.05 | na | 0 | - | 0.65 | 0.00% | 0.00 | 0.93 | - | 32.63 | (6.22) | 26.41 |
| Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 200 MWh | 4500 | 37% | 49.36 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 50.29 | (6.22) | 44.06 |
| Wind + Stor, Arlington, OR, 200 MW+ 50 MW 200 MWh | 1500 | 37% | 50.15 | 88% | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 61.08 | (6.22) | 54.86 |
| Wind + Stor, Monticello, UT, 200 MW+ 50 MW 200 MWh | 4500 | 30% | 62.01 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 62.94 | (6.22) | 56.72 |
| Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 200 MWh | 6500 | 44% | 41.86 | 88% | 0 | - | 0.65 | 0.00% | 0.00 | 0.93 | - | 43.43 | (6.22) | 37.21 |
| Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 200 MWh | 1500 | 37% | 50.29 | 88% | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 61.22 | (6.22) | 55.00 |

Total Resource Cost for Supply-Side Resource Options

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Convert to \$/MWh | | | | | | Variable Costs (\$/MWh) | | | | | Total Costs and Credits (\$/MWh) | | |
|---|-------------------|------------------------------|----------------------|--------------------|----------------|--------|-------------------------|---------------------|------------------------------|-------------------------------|---------------|----------------------------------|------------------------------------|--|
| | Elevation (AFSL) | Capacity Factor ² | Total Fixed (\$/MWh) | Storage Efficiency | Levelized Fuel | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Integration Cost ¹ | Environmental | Total Resource Cost | Credits | |
| | | | | | ¢/mmBtu | \$/MWh | | | | | | | PTC Tax Credits / ITC (Solar Only) | Total Resource Cost - with PTC / ITC Credits |
| | | | | | | | | | | | | | | |
| Resource Description | | | | | | | | | | | | | | |
| PV Idaho Falls, ID, 200 MW, 2021, 28.1% CF (30% ITC) | 4700 | 28% | 48.77 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 49.47 | (13.57) | 35.90 |
| PV Lakeview, OR, 200 MW, 2021, 29.7% CF (30% ITC) | 4800 | 30% | 48.12 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 48.82 | (13.43) | 35.40 |
| PV Milford, UT, 200 MW, 2021, 32.5% CF (30% ITC) | 5000 | 33% | 42.31 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 43.01 | (11.71) | 31.31 |
| PV Rock Springs, WY, 200 MW, 2021, 30.1% CF (30% ITC) | 6400 | 30% | 45.15 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 45.85 | (12.61) | 33.24 |
| PV Yakima, WA, 200 MW, 2021, 26% CF (30% ITC) | 1000 | 26% | 54.89 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 55.60 | (15.31) | 40.28 |
| PV Idaho Falls, ID, 200 MW, 2026, 28.1% CF (10% ITC) | 4700 | 28% | 48.77 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 49.47 | (4.97) | 44.50 |
| PV Lakeview, OR, 200 MW, 2026, 29.7% CF (10% ITC) | 4800 | 30% | 48.12 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 48.82 | (4.92) | 43.91 |
| PV Milford, UT, 200 MW, 2026, 32.5% CF (10% ITC) | 5000 | 33% | 42.31 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 43.01 | (4.29) | 38.73 |
| PV Rock Springs, WY, 200 MW, 2026, 30.1% CF (10% ITC) | 6400 | 30% | 45.15 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 45.85 | (4.62) | 41.23 |
| PV Yakima, WA, 200 MW, 2026, 26% CF (10% ITC) | 1000 | 26% | 54.89 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 55.60 | (5.61) | 49.99 |
| PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 200 MWh (30% ITC) | 4700 | 28% | 60.55 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 61.25 | (17.25) | 44.01 |
| PV + Stor, Lakeview, OR, 200 MW + 50 MW X 200 MWh (30% ITC) | 4800 | 30% | 59.80 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 60.50 | (17.07) | 43.43 |
| PV + Stor., Milford, UT, 200 MW + 50 MW X 200 MWh (30% ITC) | 5000 | 33% | 52.29 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 52.99 | (14.88) | 38.11 |
| PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 200 MWh (30% ITC) | 6400 | 30% | 56.38 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 57.08 | (16.04) | 41.04 |
| PV + Stor, Yakima, WA, 200 MW + 50 MW X 200 MWh (30% ITC) | 1000 | 26% | 68.24 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 68.95 | (19.47) | 49.48 |
| PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 200 MWh (10% ITC) | 4700 | 28% | 60.55 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 61.25 | (6.32) | 54.94 |
| PV + Stor, Lakeview, OR, 200 MW + 50 MW X 200 MWh (10% ITC) | 4800 | 30% | 59.80 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 60.50 | (6.25) | 54.25 |
| PV + Stor., Milford, UT, 200 MW + 50 MW X 200 MWh (10% ITC) | 5000 | 33% | 52.29 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 52.99 | (5.45) | 47.54 |
| PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 200 MWh (10% ITC) | 6400 | 30% | 56.38 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 57.08 | (5.87) | 51.21 |
| PV + Stor, Yakima, WA, 200 MW + 50 MW X 200 MWh (10% ITC) | 1000 | 26% | 68.24 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 68.95 | (7.13) | 61.82 |
| Oregon PS, 400 MW X 3,800 MWh | 4457 | 36% | 65.59 | 79% | 324 | 27.44 | 0.00 | 0.00% | 0.00 | - | - | 93.03 | - | 93.03 |
| Oregon PS joint ownership, 100 MW X 950 MWh | 4457 | 36% | 65.68 | 79% | 324 | 27.44 | 0.00 | 0.00% | 0.00 | - | - | 93.12 | - | 93.12 |
| Washington PS, 1,200 MW X 16,800 MWh | 500 | 36% | 56.91 | 79% | 320 | 27.13 | 0.00 | 0.00% | 0.00 | - | - | 84.05 | - | 84.05 |
| Wyoming PS, 700 MW X 7,000 MWh | 580 | 36% | 68.79 | 79% | 320 | 27.14 | 0.00 | 0.00% | 0.00 | - | - | 95.93 | - | 95.93 |
| Utah PS, 300 MW X 1,800 MWh | 6359 | 36% | 63.65 | 79% | 327 | 27.67 | 0.00 | 0.00% | 0.00 | - | - | 91.31 | - | 91.31 |
| Idaho PS, 360 MW X 2,880 MWh | 5000 | 36% | 57.59 | 79% | 327 | 27.67 | 0.00 | 0.00% | 0.00 | - | - | 85.25 | - | 85.25 |
| CAES, 320 MW X 15,360 MWh | 4600 | 72% | 20.20 | 55% | 327 | 25.12 | 0.00 | 0.00% | 0.00 | - | - | 45.32 | - | 45.32 |
| Li-Ion 15 MW X 60 MWh | 0 | 17% | 142.42 | 88% | 327 | 0.00 | 15.07 | 0.00% | 0.00 | - | - | 157.49 | - | 157.49 |
| Advanced Fission | 5000 | 86% | 74.25 | na | 0 | - | 11.75 | 0.00% | 0.00 | - | - | 86.00 | - | 86.00 |
| Small Modular Reactor x 12 | 5000 | 86% | 79.12 | na | 0 | - | 15.50 | 0.00% | 0.00 | - | - | 94.62 | - | 94.62 |

¹ Input into IRP SO and PAR Model

² Wind and solar shapes are input into IRP SO and PAR Model

NC = Not Calculated

Results presented without credits

Information Presented is Illustrative

Total Resource Cost for Supply-Side Resource Options

Brownfield Sites

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Elevation (AFSL) | Convert to \$/MWh | | | | | Variable Costs (\$/MWh) | | | | | Total Costs and Credits (\$/MWh) | | |
|---|---------------------|---------------------------------|----------------------------|-----------------------|----------------|--------|----------------------------|------------------------|---------------------------------|----------------------------------|---------------|-------------------------------------|---------|--|
| | | Capacity Factor ² | Total Fixed (\$/MWh) | Storage Efficiency | Levelized Fuel | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Integration Cost ¹ | Environmental | Total Resource Cost | Credits | Total Resource Cost - with PTC / ITC Credits |
| | | | | | ¢/mmBtu | \$/MWh | | | | | | | | |
| Resource Description | | | | | | | | | | | | | | |
| Dave Johnston | | | | | | | | | | | | | | |
| SCCT Aero x3 | 5050 | 33% | 62.61 | na | 320 | 29.50 | 8.85 | 11.48% | 1.02 | - | - | 101.97 | - | 101.97 |
| Intercooled SCCT Aero x2 | 5050 | 33% | 47.28 | na | 320 | 27.74 | 6.14 | 13.23% | 0.81 | - | - | 81.98 | - | 81.98 |
| SCCT Frame "F" x1 | 5050 | 33% | 33.01 | na | 320 | 31.34 | 6.61 | 11.48% | 0.76 | - | - | 71.72 | - | 71.72 |
| IC Recips x 6 | 5050 | 33% | 57.04 | na | 320 | 26.46 | 7.45 | 8.73% | 0.65 | - | - | 91.60 | - | 91.60 |
| CCCT Dry "G/H", 1x1 | 5050 | 78% | 22.48 | na | 320 | 20.81 | 2.12 | 10.21% | 0.22 | - | - | 45.63 | - | 45.63 |
| CCCT Dry "G/H", DF, 1x1 | 5050 | 12% | 51.76 | na | 320 | 20.81 | 0.15 | 0.00% | 0.00 | - | - | 72.72 | - | 72.72 |
| CCCT Dry "J/HA.02", 1x1 | 5050 | 78% | 19.34 | na | 320 | 20.66 | 2.05 | 10.21% | 0.21 | - | - | 42.25 | - | 42.25 |
| CCCT Dry "J/HA.02", DF, 1x1 | 5050 | 12% | 47.20 | na | 320 | 20.66 | 0.16 | 0.00% | 0.00 | - | - | 68.02 | - | 68.02 |
| Hunter | | | | | | | | | | | | | | |
| SCCT Aero x3 | 5050 | 33% | 57.71 | na | 327 | 30.22 | 8.85 | 11.48% | 1.02 | - | - | 97.80 | - | 97.80 |
| Intercooled SCCT Aero x2 | 5050 | 33% | 42.68 | na | 327 | 28.42 | 6.14 | 13.23% | 0.81 | - | - | 78.05 | - | 78.05 |
| SCCT Frame "F" x1 | 5050 | 33% | 27.81 | na | 327 | 32.11 | 6.61 | 11.48% | 0.76 | - | - | 67.29 | - | 67.29 |
| IC Recips x 6 | 5050 | 33% | 52.64 | na | 327 | 27.11 | 7.45 | 8.73% | 0.65 | - | - | 87.85 | - | 87.85 |
| CCCT Dry "G/H", 1x1 | 5050 | 78% | 21.02 | na | 327 | 21.32 | 2.12 | 10.21% | 0.22 | - | - | 44.67 | - | 44.67 |
| CCCT Dry "G/H", DF, 1x1 | 5050 | 12% | 42.25 | na | 327 | 21.32 | 0.15 | 0.00% | 0.00 | - | - | 63.73 | - | 63.73 |
| CCCT Dry "J/HA.02", 1x1 | 5050 | 78% | 17.89 | na | 327 | 21.17 | 2.05 | 10.21% | 0.21 | - | - | 41.31 | - | 41.31 |
| CCCT Dry "J/HA.02", DF, 1x1 | 5050 | 12% | 37.77 | na | 327 | 21.17 | 0.16 | 0.00% | 0.00 | - | - | 59.09 | - | 59.09 |
| Huntington | | | | | | | | | | | | | | |
| SCCT Aero x3 | 5050 | 33% | 57.71 | na | 327 | 30.22 | 8.85 | 11.48% | 1.02 | - | - | 97.80 | - | 97.80 |
| Intercooled SCCT Aero x2 | 5050 | 33% | 42.68 | na | 327 | 28.42 | 6.14 | 13.23% | 0.81 | - | - | 78.05 | - | 78.05 |
| SCCT Frame "F" x1 | 5050 | 33% | 27.81 | na | 327 | 32.11 | 6.61 | 11.48% | 0.76 | - | - | 67.29 | - | 67.29 |
| IC Recips x 6 | 5050 | 33% | 52.64 | na | 327 | 27.11 | 7.45 | 8.73% | 0.65 | - | - | 87.85 | - | 87.85 |
| CCCT Dry "G/H", 1x1 | 5050 | 78% | 21.02 | na | 327 | 21.32 | 2.12 | 10.21% | 0.22 | - | - | 44.67 | - | 44.67 |
| CCCT Dry "G/H", DF, 1x1 | 5050 | 12% | 42.25 | na | 327 | 21.32 | 0.15 | 0.00% | 0.00 | - | - | 63.73 | - | 63.73 |
| CCCT Dry "G/H", 2x1 | 5050 | 78% | 15.81 | na | 327 | 21.35 | 2.01 | 10.79% | 0.22 | - | - | 39.39 | - | 39.39 |
| CCCT Dry "G/H", DF, 2x1 | 5050 | 12% | 35.45 | na | 327 | 21.35 | 0.16 | 0.00% | 0.00 | - | - | 56.96 | - | 56.96 |
| CCCT Dry "J/HA.02", 1x1 | 5050 | 78% | 17.89 | na | 327 | 21.17 | 2.05 | 10.21% | 0.21 | - | - | 41.31 | - | 41.31 |
| CCCT Dry "J/HA.02", DF, 1x1 | 5050 | 12% | 37.77 | na | 327 | 21.17 | 0.16 | 0.00% | 0.00 | - | - | 59.09 | - | 59.09 |

Total Resource Cost for Supply-Side Resource Options

Brownfield Sites

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Elevation (AFSL) | Convert to \$/MWh | | | | | Variable Costs (\$/MWh) | | | | | Total Costs and Credits (\$/MWh) | | |
|---|---------------------|---------------------------------|----------------------------|-----------------------|----------------|--------|----------------------------|------------------------|---------------------------------|----------------------------------|---------------|-------------------------------------|---------|--|
| | | Capacity Factor ² | Total Fixed (\$/MWh) | Storage Efficiency | Levelized Fuel | | O&M ¹ | Capitalized Premium | O&M Capitalized ¹ | Integration Cost ¹ | Environmental | Total Resource Cost | Credits | Total Resource Cost - with PTC / ITC Credits |
| | | | | | ¢/mmBtu | \$/MWh | | | | | | | | |
| | | | | | | | | | | | | | | |
| Resource Description | | | | | | | | | | | | | | |
| Jim Bridger | | | | | | | | | | | | | | |
| SCCT Aero x3 | 6500 | 33% | 60.27 | na | 321 | 29.57 | 9.60 | 11.48% | 1.10 | - | - | 100.54 | - | 100.54 |
| Intercooled SCCT Aero x2 | 6500 | 33% | 43.55 | na | 321 | 27.92 | 6.45 | 13.23% | 0.85 | - | - | 78.77 | - | 78.77 |
| SCCT Frame "F" x1 | 6500 | 33% | 27.17 | na | 321 | 31.43 | 6.96 | 11.48% | 0.80 | - | - | 66.36 | - | 66.36 |
| IC Recips x 6 | 6500 | 33% | 51.56 | na | 321 | 26.72 | 7.75 | 8.73% | 0.68 | - | - | 86.71 | - | 86.71 |
| CCCT Dry "G/H", 1x1 | 6500 | 78% | 21.78 | na | 321 | 21.70 | 2.25 | 10.21% | 0.23 | - | - | 45.96 | - | 45.96 |
| CCCT Dry "G/H", DF, 1x1 | 6500 | 12% | 42.61 | na | 321 | 21.70 | 0.15 | 0.00% | 0.00 | - | - | 64.47 | - | 64.47 |
| CCCT Dry "J/HA.02", 1x1 | 6500 | 78% | 18.14 | na | 321 | 21.45 | 2.15 | 10.21% | 0.22 | - | - | 41.97 | - | 41.97 |
| CCCT Dry "J/HA.02", DF, 1x1 | 6500 | 12% | 34.70 | na | 321 | 21.45 | 0.16 | 0.00% | 0.00 | - | - | 56.31 | - | 56.31 |
| Naughton | | | | | | | | | | | | | | |
| SCCT Aero x3 | 6500 | 33% | 61.96 | na | 327 | 30.16 | 9.60 | 11.48% | 1.10 | - | - | 102.82 | - | 102.82 |
| Intercooled SCCT Aero x2 | 6500 | 33% | 45.15 | na | 327 | 28.47 | 6.45 | 13.23% | 0.85 | - | - | 80.92 | - | 80.92 |
| SCCT Frame "F" x1 | 6500 | 33% | 28.98 | na | 327 | 32.05 | 6.96 | 11.48% | 0.80 | - | - | 68.78 | - | 68.78 |
| IC Recips x 6 | 6500 | 33% | 53.09 | na | 327 | 27.24 | 7.75 | 8.73% | 0.68 | - | - | 88.76 | - | 88.76 |
| CCCT Dry "J/HA.02", 1x1 | 6500 | 78% | 18.66 | na | 327 | 21.88 | 2.15 | 10.21% | 0.22 | - | - | 42.91 | - | 42.91 |
| CCCT Dry "J/HA.02", DF, 1x1 | 6500 | 12% | 38.08 | na | 327 | 21.88 | 0.16 | 0.00% | 0.00 | - | - | 60.11 | - | 60.11 |
| Wyodak | | | | | | | | | | | | | | |
| SCCT Aero x3 | 6500 | 33% | 66.85 | na | 323 | 29.71 | 9.60 | 11.48% | 1.10 | - | - | 107.26 | - | 107.26 |
| Intercooled SCCT Aero x2 | 6500 | 33% | 49.76 | na | 323 | 28.05 | 6.45 | 13.23% | 0.85 | - | - | 85.12 | - | 85.12 |
| SCCT Frame "F" x1 | 6500 | 33% | 34.17 | na | 323 | 31.58 | 6.96 | 11.48% | 0.80 | - | - | 73.51 | - | 73.51 |
| IC Recips x 6 | 6500 | 33% | 48.71 | na | 323 | 26.85 | 7.75 | 8.73% | 0.68 | - | - | 83.98 | - | 83.98 |

¹ Input into IRP SO and PAR Model

² Wind and solar shapes are input into IRP SO and PAR Model

NC = Not Calculated

Results presented without credits

Information Presented is Illustrative

Total Resource Cost for Supply-Side Resource Options

Resources not Modeled in 2019 IRP

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Convert to \$/MWh | | | | | | Variable Costs (\$/MWh) | | | | | Total Costs and Credits (\$/MWh) | | |
|---|-------------------|-----------------|----------------------|--------------------|----------------|--------|-------------------------|---------------------|-----------------|------------------|---------------|----------------------------------|------------------------------------|--|
| | Elevation (AFSL) | Capacity Factor | Total Fixed (\$/MWh) | Storage Efficiency | Levelized Fuel | | O&M | Capitalized Premium | O&M Capitalized | Integration Cost | Environmental | Total Resource Cost | Credits | |
| | | | | | c/mmBtu | \$/MWh | | | | | | | PTC Tax Credits / ITC (Solar Only) | Total Resource Cost - with PTC / ITC Credits |
| SCPC with CCS | 4500 | 90% | 64.62 | na | 178 | 23.30 | 7.00 | 0.00% | 0.00 | - | - | 94.91 | - | 94.91 |
| IGCC with CCS | 4500 | 86% | 62.30 | na | 178 | 19.27 | 11.77 | 11.52% | 1.36 | - | - | 94.69 | - | 94.69 |
| PC CCS retrofit @ 500 MW | 4500 | 90% | 21.90 | na | 178 | 25.58 | 6.47 | 0.00% | 0.00 | - | - | 53.96 | - | 53.96 |
| SCPC with CCS | 6500 | 90% | 70.74 | na | 178 | 23.57 | 7.58 | 0.00% | 0.00 | - | - | 101.89 | - | 101.89 |
| IGCC with CCS | 6500 | 86% | 70.21 | na | 178 | 19.66 | 14.11 | 0.00% | 0.00 | - | - | 103.98 | - | 103.98 |
| PC CCS retrofit @ 500 MW | 6500 | 90% | 22.78 | na | 178 | 25.58 | 7.00 | 0.00% | 0.00 | - | - | 55.36 | - | 55.36 |
| Greenfield Binary 90% CF | 4500 | 90% | 59.99 | na | 0 | - | 1.16 | 0.00% | 0.00 | - | - | 61.15 | (15.55) | 45.60 |
| Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 100 MWh | 4500 | 37% | 46.12 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 47.05 | (6.22) | 40.83 |
| Wind + Stor, Arlington, OR, 200 MW+ 50 MW 100 MWh | 1500 | 37% | 46.72 | 88% | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 57.65 | (6.22) | 51.42 |
| Wind + Stor, Monticello, UT, 200 MW+ 50 MW 100 MWh | 4500 | 30% | 57.95 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 58.87 | (6.22) | 52.65 |
| Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 100 MWh | 6500 | 44% | 39.10 | 88% | 0 | - | 0.65 | 0.00% | 0.00 | 0.93 | - | 40.68 | (6.22) | 34.46 |
| Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 100 MWh | 1500 | 37% | 46.85 | 88% | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 57.78 | (6.22) | 51.56 |
| Wind + Stor, Pocatello, ID, 200 MW+ 50 MW 400 MWh | 4500 | 37% | 55.62 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 56.55 | (6.22) | 50.33 |
| Wind + Stor, Arlington, OR, 200 MW+ 50 MW 400 MWh | 1500 | 37% | 56.82 | 88% | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 67.75 | (6.22) | 61.53 |
| Wind + Stor, Monticello, UT, 200 MW+ 50 MW 400 MWh | 4500 | 30% | 69.89 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.93 | - | 70.82 | (6.22) | 64.60 |
| Wind + Stor, Medicine Bow, WY, 200 MW+ 50 MW 400 MWh | 6500 | 44% | 47.19 | 88% | 0 | - | 0.65 | 0.00% | 0.00 | 0.93 | - | 48.77 | (6.22) | 42.55 |
| Wind + Stor, Goldendale, WA, 200 MW+ 50 MW 400 MWh | 1500 | 37% | 56.97 | 88% | 0 | - | 10.00 | 0.00% | 0.00 | 0.93 | - | 67.90 | (6.22) | 61.68 |
| PV Idaho Falls, ID, 50 MW, 28.1% CF (30% ITC) | 4700 | 28% | 51.73 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 52.43 | (14.58) | 37.86 |
| PV Lakeview, OR, 50 MW, 2021, 29.7% CF (30% ITC) | 4800 | 30% | 50.92 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 51.63 | (14.38) | 37.24 |
| PV Milford, UT, 50 MW, 2021, 32.5% CF (30% ITC) | 5000 | 33% | 44.87 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 45.58 | (12.58) | 32.99 |
| PV Rock Springs, WY, 50 MW, 2021, 30.1% CF (30% ITC) | 6400 | 30% | 47.91 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 48.62 | (13.56) | 35.06 |
| PV Yakima, WA, 50 MW, 2021, 26% CF (30% ITC) | 1000 | 26% | 58.09 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 58.80 | (16.40) | 42.39 |
| PV Idaho Falls, ID, 50 MW, 2026, 28.1% CF (10% ITC) | 4700 | 28% | 51.73 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 52.43 | (5.34) | 47.09 |
| PV Lakeview, OR, 50 MW, 2026, 29.7% CF (10% ITC) | 4800 | 30% | 50.92 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 51.63 | (5.27) | 46.36 |
| PV Milford, UT, 50 MW, 2026, 32.5% CF (10% ITC) | 5000 | 33% | 44.87 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 45.58 | (4.61) | 40.97 |
| PV Rock Springs, WY, 50 MW, 2026, 30.1% CF (10% ITC) | 6400 | 30% | 47.91 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 48.62 | (4.96) | 43.65 |
| PV Yakima, WA, 50 MW, 2026, 26% CF (10% ITC) | 1000 | 26% | 58.09 | na | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 58.80 | (6.01) | 52.79 |

Total Resource Cost for Supply-Side Resource Options

Resources not Modeled in 2019 IRP

| Supply Side Resource Options Mid-Calendar Year 2018 Dollars (\$) | Convert to \$/MWh | | | | | | Variable Costs (\$/MWh) | | | | | Total Costs and Credits (\$/MWh) | | |
|---|-------------------|-----------------|----------------------|--------------------|----------------|--------|-------------------------|---------------------|-----------------|------------------|---------------|----------------------------------|------------------------------------|--|
| | Elevation (AFSL) | Capacity Factor | Total Fixed (\$/MWh) | Storage Efficiency | Levelized Fuel | | O&M | Capitalized Premium | O&M Capitalized | Integration Cost | Environmental | Total Resource Cost | Credits | |
| | | | | | c/mmBtu | \$/MWh | | | | | | | PTC Tax Credits / ITC (Solar Only) | Total Resource Cost - with PTC / ITC Credits |
| Resource Description | | | | | | | | | | | | | | |
| PV + Stor, Idaho Falls, ID, 50 MW + 10 MW X 20 MWh (30% ITC) | 4700 | 28% | 60.68 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 61.39 | (18.53) | 42.85 |
| PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 100 MWh (30% ITC) | 4700 | 28% | 55.48 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 56.18 | (17.25) | 38.93 |
| PV + Stor., Idaho Falls, ID, 50 MW + 10 MW X 40 MWh (30% ITC) | 4700 | 28% | 65.34 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 66.04 | (18.53) | 47.51 |
| PV + Stor, Idaho Falls, ID, 50 MW + 10 MW X 80 MWh (30% ITC) | 4700 | 28% | 73.32 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 74.03 | (18.53) | 55.50 |
| PV + Stor, Idaho Falls, ID, 200 MW + 50 MW X 400 MWh (30% ITC) | 4700 | 28% | 69.88 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 70.58 | (17.25) | 53.34 |
| PV + Stor, Lakeview, OR, 50 MW + 10 MW X 20 MWh (30% ITC) | 4800 | 30% | 59.72 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 60.42 | (18.28) | 42.14 |
| PV + Stor, Lakeview, OR, 200 MW + 50 MW X 100 MWh (30% ITC) | 4800 | 30% | 54.67 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 55.37 | (17.07) | 38.30 |
| PV + Stor, Lakeview, OR, 50 MW + 10 MW X 40 MWh (30% ITC) | 4800 | 30% | 64.42 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 65.12 | (18.28) | 46.84 |
| PV + Stor, Lakeview, OR, 50 MW + 10 MW X 80 MWh (30% ITC) | 4800 | 30% | 72.51 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 73.22 | (18.28) | 54.93 |
| PV + Stor., Lakeview, OR, 200 MW + 50 MW X 400 MWh (30% ITC) | 4800 | 30% | 69.27 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 69.98 | (17.07) | 52.91 |
| PV + Stor., Milford, UT, 50 MW + 10 MW X 20 MWh (30% ITC) | 5000 | 33% | 52.40 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 53.10 | (15.99) | 37.11 |
| PV + Stor., Milford, UT, 200 MW + 50 MW X 100 MWh (30% ITC) | 5000 | 33% | 47.90 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 48.60 | (14.88) | 33.72 |
| PV + Stor., Milford, UT 50 MW + 10 MW X 40 MWh (30% ITC) | 5000 | 33% | 56.43 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 57.13 | (15.99) | 41.14 |
| PV + Stor., Milford, UT, 50 MW + 10 MW X 80 MWh (30% ITC) | 5000 | 33% | 63.33 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 64.03 | (15.99) | 48.04 |
| PV + Stor., Milford, UT, 200 MW + 50 MW X 400 MWh (30% ITC) | 5000 | 33% | 60.35 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 61.06 | (14.88) | 46.17 |
| PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 20 MWh (30% ITC) | 6400 | 30% | 56.50 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 57.20 | (17.23) | 39.97 |
| PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 100 MWh (30% ITC) | 6400 | 30% | 51.64 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 52.34 | (16.04) | 36.31 |
| PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 40 MWh (30% ITC) | 6400 | 30% | 60.85 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 61.55 | (17.23) | 44.31 |
| PV + Stor., Rock Springs, WY, 50 MW + 10 MW X 80 MWh (30% ITC) | 6400 | 30% | 68.30 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 69.00 | (17.23) | 51.77 |
| PV + Stor., Rock Springs, WY, 200 MW + 50 MW X 400 MWh (30% ITC) | 6400 | 30% | 65.09 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 65.79 | (16.04) | 49.75 |
| PV + Stor., Yakima, WA, 50 MW + 10 MW X 20 MWh (30% ITC) | 1000 | 26% | 68.15 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 68.85 | (20.85) | 48.00 |
| PV + Stor, Yakima, WA, 200 MW + 50 MW X 100 MWh (30% ITC) | 1000 | 26% | 62.38 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 63.08 | (19.47) | 43.62 |
| PV + Stor, Yakima, WA, 50 MW + 10 MW X 40 MWh (30% ITC) | 1000 | 26% | 73.52 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 74.22 | (20.85) | 53.37 |
| PV + Stor, Yakima, WA, 50 MW + 10 MW X 80 MWh (30% ITC) | 1000 | 26% | 82.77 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 83.48 | (20.85) | 62.62 |
| PV + Stor, Yakima, WA, 200 MW + 50 MW X 400 MWh (30% ITC) | 1000 | 26% | 79.07 | 88% | 0 | - | 0.00 | 0.00% | 0.00 | 0.70 | - | 79.78 | (19.47) | 60.31 |
| Li-Ion 1 MW X 250 kWh | 0 | 1% | 1,886.99 | 88% | 327 | 0.00 | 11.42 | 0.00% | 0.00 | - | - | 1,898.41 | - | 1,898.41 |
| Li-Ion 1 MW X 2 MWh | 0 | 8% | 430.85 | 88% | 327 | 0.00 | 15.70 | 0.00% | 0.00 | - | - | 446.55 | - | 446.55 |
| Li-Ion 1 MW X 4 MWh | 0 | 17% | 284.12 | 88% | 327 | 0.00 | 14.98 | 0.00% | 0.00 | - | - | 299.11 | - | 299.11 |
| Li-Ion 1 MW X 8 MWh | 0 | 33% | 225.69 | 88% | 327 | 0.00 | 14.98 | 0.00% | 0.00 | - | - | 240.67 | - | 240.67 |
| Flow 1 MW X 6 MWh | 0 | 25% | 217.62 | 65% | 327 | 0.00 | 0.00 | 0.00% | 0.00 | - | - | 217.62 | - | 217.62 |