

Solar Generation Resource, Technical Parameters Worksheet

Project Identifying Information

- 1) Proponent Name: _____ 2) Proposal Name/Number: _____ 3) Project Name: _____
- Location Information:
- 4) Location Information: _____ For example, "Located on 10 acres, 1.0 mile NW of Landmark X, near the City of X."

- 5) Town/Homestead and Island: _____ Provide the name of the nearest population center, and which island the project is located.

Project Technical Information

- | | | |
|---|-------|---|
| 6) Expected Online Date, (MM/DD/YYYY): | _____ | This may not be the date at which CUC will begin in to receive power. |
| 7) Nameplate Capacity (MW): | _____ | Please provide the nameplate capacity to the nearest 100th of a MW (2 decimal places). |
| 8) Maximum, or Emergency Capacity (MW): | _____ | Please provide the maximum or emergency-rated capacity to the nearest 100th of a MW (2 decimal places). |
| 9) Expected Project Life (years): | _____ | Provide the expected useful life of the project, regardless of the contract term. |
| 10) Estimated Annual Capacity Factor (net) (%): | _____ | Capacity Factor = Expected Production in MWh ÷ (Nameplate Capacity in MW x 8,760 hours) |
| 11) Estimated Equivalent Availability Factor (%): | _____ | EAFF = (8,760 hours - hours down due to maintenance - hours down due to forced outages) ÷ 8,760 hours |
| 12) Equivalent Forced Outage Rate (EFOR) (% of time): | _____ | |
| 14) DC to AC drate factor assumed (%): | _____ | |
| 16) Inverter Replacement Year (X years from Online Date): | _____ | |
| 18) Axis Orientation/Angle (degrees/direction): | _____ | |
| 20) Source of Solar Irradiance Data | _____ | |
| | | 13) Maintenance Rate (% of time): _____ |
| | | 15) Annual Degradation Factor (e.g. panels) (%): _____ |
| | | 17) Select Panel Type (Fixed Plate or Tracking): _____ |
| | | 19) Hourly Dispatch Profile (Provide in Excel format) Provide in Excel, can wait until qualification |
| | | 21) Dispatch Model(s) Used to develop #19 (e.g. SAM) _____ |

Contract Information

- 33) CUC Delivery Date, (MM/DD/YYYY): _____ This will be the date at which CUC will begin to receive power.
- 34) Contract Term, years: _____ This will be the number of years, commencing at the CUC Delivery Date, for which the project will be delivering power under contract.
- 35) Contract Net Capacity (MW): _____ Please provide the nameplate capacity less internal station use to the nearest 100th of a MW (2 decimal places).

Interconnection and Transmission

- 36) Interconnection Voltage (kV): _____
- 37) Interconnection Substation: _____ Provide the name of the expected nearest substation to which the project(s) would connect.
- 38) Interconnecting Transmission Line: _____ Please provide a description of the line from the project to the substation.

Additional Information

Use the space provided to supply additional technical information as applicable. For example, if there are special siting or interconnection requirements, please list them here.

APPENDIX B

Proponent Specified Resource, Technical Parameters Worksheet

Project Identifying Information

1) Proponent Name: 2) Proposal Name/Number: 3) Project Name:

Location Information:

4) Location Information: For example, "Located on 10 acres, 1.0 mile NW of Landmark X, near X Homestead."

5) Town/Homestead and Island: Provide the name of the nearest population center, and which island the project is located.

Project Technical Information

<p>6) Expected Online Date, (MM/DD/YYYY): <input style="width: 100%;" type="text"/></p> <p>7) Nameplate Capacity (MW): <input style="width: 100%;" type="text"/></p> <p>8) Maximum, or Emergency Capacity (MW): <input style="width: 100%;" type="text"/></p> <p>9) Expected Project Life (years): <input style="width: 100%;" type="text"/></p> <p>10) Estimated Annual Capacity Factor (net) (%): <input style="width: 100%;" type="text"/></p> <p>11) Estimated Equivalent Availability Factor (%): <input style="width: 100%;" type="text"/></p> <p>12) Minimum Up Time (hours): <input style="width: 100%;" type="text"/></p> <p>14) Minimum Down Time (hours): <input style="width: 100%;" type="text"/></p> <p>16) Equivalent Forced Outage Rate (EFOR) (% of time): <input style="width: 100%;" type="text"/></p> <p>18) <input style="width: 100%;" type="text"/></p> <p>20) <input style="width: 100%;" type="text"/></p> <p>22) <input style="width: 100%;" type="text"/></p> <p>24) <input style="width: 100%;" type="text"/></p> <p>26) <input style="width: 100%;" type="text"/></p> <p>28) <input style="width: 100%;" type="text"/></p> <p>29) <input style="width: 100%;" type="text"/></p> <p>30) Blackstart Capability (minutes): <input style="width: 100%;" type="text"/></p>	<p>This may not be the date at which CUC will begin in to receive power.</p> <p>Please provide the nameplate capacity to the nearest 100th of a MW (2 decimal places).</p> <p>Please provide the maximum or emergency-rated capacity to the nearest 100th of a MW (2 decimal places).</p> <p>Provide the expected useful life of the project, regardless of the contract term.</p> <p>Capacity Factor = $\frac{\text{Expected Production in MWh}}{\text{Nameplate Capacity in MW} \times 8,760 \text{ hours}}$</p> <p>EAF = $\frac{8,760 \text{ hours} - \text{hours down due to maintenance} - \text{hours down due to forced outages}}{8,760 \text{ hours}}$</p>	<p>13) Ramp Up Rate (MW per minute): <input style="width: 100%;" type="text"/></p> <p>15) Ramp Down Rate (MW per minute): <input style="width: 100%;" type="text"/></p> <p>17) Maintenance Rate (% of time): <input style="width: 100%;" type="text"/></p> <p>19) <input style="width: 100%;" type="text"/></p> <p>21) <input style="width: 100%;" type="text"/></p> <p>23) <input style="width: 100%;" type="text"/></p> <p>25) <input style="width: 100%;" type="text"/></p> <p>27) <input style="width: 100%;" type="text"/></p>
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Contract Information

33) CUC Delivery Date, (MM/DD/YYYY): This will be the date at which CUC will begin to receive power.

34) Contract Term, years: This will be the number of years, commencing at the CUC Delivery Date, for which the project will be delivering power under contract.

35) Contract Net Capacity (MW): Please provide the nameplate capacity less internal station use to the nearest 100th of a MW (2 decimal places).

Interconnection and Transmission

36) Interconnection Voltage (kV):

37) Interconnection Substation: Provide the name of the expected nearest substation to which the project(s) would connect.

38) Interconnecting Transmission Line: Please provide a description of the line from the project to the substation.

Additional Information

Use the space provided to supply additional technical information as applicable. For example, if there are more than two types of Other Air Emissions, provide that data here.

APPENDIX B

Battery Energy Storage Resource, Technical Parameters Worksheet

Project Identifying Information

- 1) Proponent Name: 2) Proposal Name/Number: 3) Project Name:
- Location Information:
- 4) Location Information: For example, "Located on 10 acres, 1.0 mile NW of Landmark X, near the City of X."
- 5) Town/Homestead and Island: Provide the name of the nearest population center, and which island the project is located.

Project Technical Information

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|---|--|--|
| <p>6) Expected Online Date, (MM/DD/YYYY): <input style="width: 100%;" type="text"/></p> <p>7) Nameplate Capacity (MW): <input style="width: 100%;" type="text"/></p> <p>8) Maximum, or Emergency Capacity (MW): <input style="width: 100%;" type="text"/></p> <p>9) Expected Project Life (years): <input style="width: 100%;" type="text"/></p> <p>10) Proposed Discharge Duration (minutes): <input style="width: 100%;" type="text"/></p> <p>11) Battery Technology (e.g. Lithium Ion): <input style="width: 100%;" type="text"/></p> <p>12) Charge Cycle Duration (hours): <input style="width: 100%;" type="text"/></p> <p>14) Roundtrip Charge/Discharge Efficiency (%): <input style="width: 100%;" type="text"/></p> <p>16) Core Refurbishment Year (X years from Online Date): <input style="width: 100%;" type="text"/></p> <p>18) Required Solar Capacity for charging (if applies): <input style="width: 100%;" type="text"/></p> | <p>This may not be the date at which CUC will begin in to receive power.</p> <p>Please provide the nameplate capacity to the nearest 100th of a MW (2 decimal places).</p> <p>Please provide the maximum or emergency-rated capacity to the nearest 100th of a MW (2 decimal places).</p> <p>Provide the expected useful life of the project, regardless of the contract term.</p> <p>Capacity Factor = Expected Production in MWh + (Nameplate Capacity in MW x 8,760 hours)</p> <p>EAFF = (8,760 hours - hours down due to maintenance - hours down due to forced outages) ÷ 8,760 hours</p> | |
| | <p>13) Maintenance Rate (% of time): <input style="width: 100%;" type="text"/></p> <p>15) Annual Degradation Factor (e.g. panels) (%): <input style="width: 100%;" type="text"/></p> <p>17) Select Panel Type (Fixed Plate or Tracking): <input style="width: 100%;" type="text"/></p> | |

Contract Information

- | | |
|---|---|
| <p>33) CUC Delivery Date, (MM/DD/YYYY): <input style="width: 100%;" type="text"/></p> <p>34) Contract Term, years: <input style="width: 100%;" type="text"/></p> <p>35) Contract Net Capacity (MW): <input style="width: 100%;" type="text"/></p> | <p>This will be the date at which CUC will begin to receive power.</p> <p>This will be the number of years, commencing at the CUC Delivery Date, for which the project will be delivering power under contract.</p> <p>Please provide the nameplate capacity less internal station use to the nearest 100th of a MW (2 decimal places).</p> |
|---|---|

Interconnection and Transmission

- | | |
|---|---|
| <p>36) Interconnection Voltage (kV): <input style="width: 100%;" type="text"/></p> <p>37) Interconnection Substation: <input style="width: 100%;" type="text"/></p> <p>38) Interconnecting Transmission Line: <input style="width: 100%;" type="text"/></p> | <p>Provide the name of the expected nearest substation to which the project(s) would connect.</p> <p>Please provide a description of the line from the project to the substation.</p> |
|---|---|

Additional Information

Use the space provided to supply additional technical information as applicable. For example, if there are special siting or interconnection requirements, please list them here.

APPENDIX B

Expected Production Worksheet

Project Identifying Information

1) Proponent Name: _____ 2) Proposal Name/Number: _____ 3) Project Name: _____

Expected Production Information

Provided expected generation information for each technology type being proposed. Smaller units of similar technologies and expected production amounts may be aggregated. Provided the amount of power delivered into the CUC system, typically production less internal station use. Mark N/A for years beyond the contract expiration date.

4) Expected Average Monthly and Annual Production by Contract Year:

Contract Year:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Month: Jan														
Feb														
Mar														
Apr														
May														
Jun														
Jul														
Aug														
Sep														
Oct														
Nov														
Dec														
Total Annual														

(Cont'd) Expected Average Monthly and Annual Production by Contract Year:

Contract Year:	15	16	17	18	19	20	21	22	23	24	25 & Beyond
Month: Jan											
Feb											
Mar											
Apr											
May											
Jun											
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total Annual											

APPENDIX B

Expected Production Worksheet

5) Expected Average Hourly Production by Month, First Contract Year, Total MWh for Each Hour Ending (HE):

	Mon:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
HE	1:00 AM												
HE	2:00 AM												
HE	3:00 AM												
HE	4:00 AM												
HE	5:00 AM												
HE	6:00 AM												
HE	7:00 AM												
HE	8:00 AM												
HE	9:00 AM												
HE	10:00 AM												
HE	11:00 AM												
HE	12:00 PM												
HE	1:00 PM												
HE	2:00 PM												
HE	3:00 PM												
HE	4:00 PM												
HE	5:00 PM												
HE	6:00 PM												
HE	7:00 PM												
HE	8:00 PM												
HE	9:00 PM												
HE	10:00 PM												
HE	11:00 PM												
HE	12:00 AM												
	Daily Total												