Non-Residential Renewable Energy Solutions
Connecticut Licensed Professional Engineer Certification of Average Annual Production of the Facility

Instructions:

Section 3.2 of the Program Manual provides conditions upon which Bidder is eligible and/or required to provide a calculation of the average annual production of the Facility as determined by a Connecticut licensed Professional Engineer. Any such calculation(s) must be consistent with the guidelines provided in Sections 3.2.4 and 3.2.5 of the Program Manual. The Professional Engineer certified calculation(s) supporting this determination must be attached as a PDF to your Bid, and must be clearly marked to identify which of the following three scenarios each Professional Engineer certified calculation is referencing:

1. Project size is greater than the net load at a project site due to existing generation being removed or no longer operational within five (5) years of bid submission, a Connecticut Licensed Professional Engineer Certification which certifies the annual load being removed, and how such Project shall be sized so as not to exceed such anticipated Customer load at the Project Site is required; and/or
2. New Construction Projects that are not State, Agricultural, or Municipal ("SAM") Customers or Rooftop Buy-All Projects, a Connecticut Licensed Professional Engineer Certification which certifies the anticipated Customer load at the Project Site that is expected to materialize within five (5) years of bid submission, and how such Project shall be sized so as not to exceed such anticipated Customer load at the Project Site is required; and/or
3. For projects indicating at the time of Bid submission that their load is expected to increase in accordance with transportation electrification (i.e., electric vehicles) and fuel switching (i.e., air source heat pumps), a Connecticut Licensed Professional Engineer certification certifying the load expected to materialize over the five years following Bid submission attributable to these items is required; and/or
4. For projects seeking to qualify a technology other than Solar PV, a Connecticut Licensed Professional Engineer certification including the alternative capacity factor of this technology is required.

Please ensure that the supporting Professional Engineer certified calculation(s) include(s), at a minimum, the following components:

1. System Size (kW AC)
2. Complete project Site Address, inclusive of street number, street name, city, state, and zip code
3. Average Annual Production (kWh)
4. Capacity Factor
5. System Degradation

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1 – Existing Generation Being Removed

Bidder hereby certifies that the submitted Project size is greater than the net load at a project site due to existing generation being removed or no longer operational within five (5) years of bid submission.

Please provide an explanation for the above scenario as it pertains to your Project:

Please attach a copy of the supporting Connecticut Licensed Professional Engineer Certification hereto labeled as Item #1. Please ensure that the Professional Engineer certified calculation includes, at a minimum, the following components:

1. System Size (kW AC)
2. Complete project Site Address, inclusive of street number, street name, city, state, and zip code
3. Average Annual Production (kWh)
4. Capacity Factor
5. System Degradation

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2 – Non-SAM, Non-Rooftop Buy-All, New Construction Project Bid

For New Construction projects that are not for SAM Customers sizing the Project to the load of Beneficial Accounts, or Rooftop Buy-All Projects, a Connecticut Licensed Professional Engineer must certify the anticipated Customer load at the Project Site, and how such Project shall be sized so as not to exceed such anticipated Customer load at the Project Site.

Please provide an explanation for the above scenario as it pertains to your Project:

Please attach a copy of the supporting Connecticut Licensed Professional Engineer Certification hereto labeled as Item #2. Please ensure that the Professional Engineer certified calculation includes, at a minimum, the following components:

1. System Size (kW AC)
2. Complete project Site Address, inclusive of street number, street name, city, state, and zip code
3. Average Annual Production (kWh)
4. Capacity Factor
5. System Degradation

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3 – Beneficial Electrification

For projects indicating at the time of Bid submission that their load is expected to increase in accordance with transportation electrification (i.e., electric vehicles) and/or fuel switching (i.e., air source heat pumps), a Connecticut Licensed Professional Engineer must certifying the load expected to materialize over the five years following Bid submission attributable to these items.

Please provide an explanation for the above scenario as it pertains to your Project:

Please indicate which beneficial electrification technologies the Customer intends to install and the anticipated timeline for such installation (attach additional sheets if necessary):

Technology	**Expected Annual Load in kWh (each)**	**Number of Units**	**Total kWh**	**Anticipated Installation Date (Note: Date must be within 5 years of bid submission and must be populated)**
TOTAL:				

Please attach a copy of the supporting Connecticut Licensed Professional Engineer Certification(s) hereto labeled as Item #3. Please ensure that the Professional Engineer certified calculation(s) include(s), at a minimum, the following components:

1. System Size (kW AC)
2. Complete project Site Address, inclusive of street number, street name, city, state, and zip code
3. Average Annual Production (kWh)
4. Capacity Factor
5. System Degradation

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4 – Alternative Capacity Factor from Non-Standard Technology

Projects seeking to qualify a technology other than Solar PV, including but not limited to Small Hydro, Wind, etc. or projects seeking approval for a solar project capacity factor that is less than the standard 15% used for size-to-load evaluation due to project orientation or shading.
Please provide an explanation for the above scenario as it pertains to your Project:

Please attach a copy of the supporting Connecticut Licensed Professional Engineer Certification hereto labeled as Item #4. Please ensure that the Professional Engineer certified calculation includes, at a minimum, the following components:

1. System Size (kW AC)
2. Complete project Site Address, inclusive of street number, street name, city, state, and zip code
3. Average Annual Production (kWh)
4. Capacity Factor
5. System Degradation