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

Instructions:

Section 43.2 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 Project and/or the anticipated annual Customer load ~~Facility~~ as determined by a Connecticut Licensed Professional Engineer. Any such calculation(s) must be consistent with the guidelines provided in Sections 43.2.4 and 43.2.5 of the Program Manual. ~~The Professional Engineer certified calculation(s) supporting this determination must be attached as a PDF to your Bid, and~~ The applicable section(s) below must be completed ~~must be clearly marked to identify which of the following three scenarios each Professional Engineer certified calculation is referencing~~and submitted with the Bid, along with the supporting Professional Engineer certified calculation(s).

1. For Projects with an average annual production~~size is~~ greater than the applicable net annual load ~~at a project site~~ due to existing generation being removed or no longer operational within five (5) years of ~~bid submission~~the Project's in-service date, a~~,~~ ~~a~~ Connecticut Licensed Professional Engineer ~~Certification which~~ must certify~~ies~~ the annual generation~~load~~ being removed, and explain how the~~such~~ Project shall be sized so as not to exceed the~~such~~ anticipated ~~Customer load at the Project Site~~applicable load ~~is required~~; and/or
2. For New Construction Projects that are not for State, Agricultural, or Municipal ("SAM") Customers and are not~~or~~ Rooftop Buy-All Projects, a Connecticut Licensed Professional Engineer ~~Certification which certifies~~must certify the anticipated applicable Customer load ~~at the Project Site~~ that is expected to materialize within five (5) years of ~~bid submission~~the Project's In-Service Date, and how such Project shall be sized so as not to exceed ~~such anticipated Customer load at the Project Site is required~~the anticipated applicable load; and/or
3. For ~~For P~~projects indicating at the time of B~~B~~id submission that the anticipated applicable~~ir~~ load is expected to increase ~~in accordance with~~due to transportation electrification (i.e., electric vehicles) and/or fuel switching (i.e., air source heat pumps), a Connecticut Licensed Professional Engineer ~~certification certifying~~must certify the load expected to materialize over the five (5) years following the Project's ~~i~~In-~~s~~Service ~~d~~Date~~Bid submission~~ attributable to these item~~ss is required~~; and/or
4. For P~~For p~~rojects seeking to qualify a technology other than Solar PV, or projects seeking approval for a solar capacity factor that is less than the standard 15%, a Connecticut Licensed Professional Engineer ~~certification including~~must certify 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. Project~~System~~ Size (kW AC)
2. P~~Complete p~~roject Site Address, inclusive of street number, street name, city, state, and zip code
3. Project Average Annual Production (kWh)

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~~3.~~4. Applicable anticipated Customer meter load (kWh)
~~4.~~5. Capacity Factor
~~5.~~6. 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~~ Project site due to existing generation being removed or no longer operational within five (5) years of ~~bid submission~~the Project's ~~i~~In-~~s~~Service ~~d~~Date.

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. Project Size (kW AC)
2. Project Site Address, inclusive of street number, street name, city, state, and zip code
3. Project Average Annual Production (kWh)
4. Applicable anticipated Customer meter load (kWh)
5. Capacity Factor
6. System Degradation

~~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 State, Agricultural, or Municipal ("SAM") Customers and are not Rooftop Buy-All Projects, a Connecticut Licensed Professional Engineer must certify the anticipated applicable Customer load that is expected to materialize within five (5) years of the Project's In-Service Date and how such Project shall be sized so as not to exceed the anticipated applicable load.~~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. Project Size (kW AC)
2. Project Site Address, inclusive of street number, street name, city, state, and zip code
3. Project Average Annual Production (kWh)
4. Applicable anticipated Customer meter load (kWh)
5. Capacity Factor
6. System Degradation

~~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)~~

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~~4. Capacity Factor~~
~~5. System Degradation~~

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3 – Beneficial Electrification

For Projects indicating at the time of ~~b~~Bid submission that the anticipated applicable load is expected to increase due to transportation electrification (i.e., electric vehicles) and/or fuel switching (i.e., air source heat pumps), a Connecticut Licensed Professional Engineer must certify the load expected to materialize over the five (5) years following the Project's ~~i~~In-~~s~~Service ~~d~~Date attributable to these items.~~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 Type	**Expected Annual Load in kWh (each)**	**Number of Units**	**Total Annual kWh**	**Anticipated Installation Date** (Note: Date must be within 5 years of ~~bid submission and must be populated~~the Project's ~~i~~In-~~s~~Service ~~d~~Date)
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. Project Size (kW AC)
2. Project Site Address, inclusive of street number, street name, city, state, and zip code
3. Project Average Annual Production (kWh)
4. Applicable anticipated Customer meter load (kWh)
5. Capacity Factor
6. System Degradation

~~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., must complete this section and attach supporting documentation such as manufacturer's specification sheets or other applicable proof of estimated production. P~~or p~~rojects 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, must complete this section and~~.~~ attach supporting documentation such as a calculation from solar production software. -

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

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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. Project Size (kW AC)
2. Project Site Address, inclusive of street number, street name, city, state, and zip code
3. Project Average Annual Production (kWh)
4. Applicable anticipated Customer meter load (kWh)
5. Capacity Factor
6. System Degradation

~~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~~