

**Attachment B to Section 30.14, Appendix 2 - Interconnection Facilities Study Agreement**

**DATA FORM TO BE PROVIDED BY DEVELOPER**

**WITH THE INTERCONNECTION FACILITIES STUDY AGREEMENT**

1. Provide location plan and simplified one-line diagram of the plant and station facilities. For staged projects, please indicate future generation, transmission circuits, etc.
2. Finalize and specify your Interconnection Service evaluation election for the Class Year Interconnection Facilities Study. Developer should specify either Energy Resource Interconnection Service (“ERIS”) alone, both ERIS and some MW level of Capacity Resource Interconnection Service (“CRIS”) ~~not to exceed the nameplate capacity of your facility~~, or CRIS only (e.g., if your facility is already interconnected taking only ERIS, you may elect to be evaluated for CRIS only); provided however, that CRIS requests are subject to the limits specified in Section 25.8.1 of Attachment S to the ISO OATT at a MW level you specify, not to exceed the nameplate capacity of your facility or, if your facility is already interconnected taking ERIS and CRIS, you may elect an increase of CRIS, not to exceed the nameplate capacity of your facility). Evaluation election:

ERIS: \_\_\_\_\_

CRIS: \_\_\_\_\_ (For a Resource with Energy Duration Limitations that is requesting CRIS, indicate the maximum injection capability over the selected duration (e.g., 10 MWh over 4 hours))

3. Proposed Schedule:

Begin Construction Date: \_\_\_\_\_

In-Service Date: \_\_\_\_\_

Initial Synchronization Date: \_\_\_\_\_

Generation Testing Date: \_\_\_\_\_

Commercial Operation Date: \_\_\_\_\_

4. Additional Information Required as Part of this Data Form:

All facilities, including BTM:NG Resources, Energy Storage Resources, Resources with Energy Duration Limitations, and Small Generating Facilities comprised of multiple units of the same or different technology type ~~Distributed Energy Resources~~, and Class Year Transmission Projects, must also complete Section A, below.

**A. Additional Information:**

Nameplate MW: \_\_\_\_\_

Nameplate MVA: \_\_\_\_\_

Auxiliary Load: \_\_\_\_\_

For temperature sensitive units, provide MW vs. temp curves and indicate maximum summer and winter net capability below:

- Maximum summer net (net MW = gross MW minus auxiliary loads total MW) which can be achieved at 90 degrees F: \_\_\_\_\_
- Maximum winter net (net MW = gross MW minus auxiliary loads total MW) which can be achieved at 10 degrees F : \_\_\_\_\_

1. One set of metering is required for each generation connection to the new ring bus or existing Connecting Transmission Owner station. Number of generation connections: \_\_\_\_\_
2. On the one-line indicate the generation capacity attached at each metering location. (Maximum load on CT/PT)
3. On the one-line indicate the location of auxiliary power. (Minimum load on CT/PT)  
Amps
4. Will an alternate source of auxiliary power be available during CT/PT maintenance?  
\_\_\_\_\_ Yes \_\_\_\_\_ No
5. Will a transfer bus on the generation side of the metering require that each meter set be designed for the total plant generation? \_\_\_\_\_ Yes \_\_\_\_\_ No

(If yes, indicate on one-line diagram).

**6-8.** What type of control system or PLC will be located at the Developer’s facility?

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**97.** What protocol does the control system or PLC use?

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**108.** Please provide a 7.5-minute quadrangle of the site. Sketch the plant, station, transmission line, and property line.

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**119.** Physical dimensions of the proposed interconnection station:

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1210. Bus length from generation to interconnection station:

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1311. Line length from interconnection station to Connecting Transmission Owner’s transmission line.

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1412. Tower number observed in the field. (Painted on tower leg):

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1513. Number of third-party easements required for transmission lines, if known:

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**BTM:NG Resources**

~~16.~~ In addition to the above information, as applicable, for BTM:NG Resources, please also provide the following information:

Interconnection Customer or Customer-Site Load: \_\_\_\_\_ kW (if none, so state)

Existing load? Yes \_\_\_ No \_\_\_

If existing load with metered load data, provide coincident Summer peak load: \_\_\_\_\_

If new load or existing load without metered load data, provide estimated coincident Summer peak load: \_\_\_\_\_

Is the facility-new load or existing load in the Transmission Owner’s service area?

\_\_\_ Yes \_\_\_ No Local provider: \_\_\_\_\_

**Energy Storage Resources Resources with Energy Duration Limitations**

In addition to the above information, as applicable, for Energy Storage Resources Resources with Energy Duration Limitations, please also provide the following information:

Inverter manufacturer, model name, number, and version:

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Energy storage capability (MWh): \_\_\_\_\_

Minimum Duration for full discharge (i.e., injection) (Hours): \_\_\_\_\_

Minimum Duration for full charge (i.e., withdrawal) (Hours): \_\_\_\_\_

Maximum withdrawal from the system (i.e., when charging) (MW): \_\_\_\_\_

Maximum sustained ~~four~~one-hour injection in MW hours; \_\_\_\_\_

Primary frequency response operating range ~~for electric storage resource~~: \_\_\_\_\_

Minimum State of Charge: \_\_\_\_\_ (%)      Maximum State of Charge: \_\_\_\_\_ (%)

**Small Generating Facilities Comprised of Multiple Units of the Same or Different Technology Type Distributed Energy Resources**

In addition to the above information, as applicable, for **Small Generating Facilities comprised of multiple units of the same or different technology type Distributed Energy Resources**, please also provide the following information:

a. Describe the composition of assets (including MW level) within the **Distributed Energy Resource Small Generating Facility**, including load reduction assets (e.g., 5 MW wind facility, 2 MW Energy Storage Resource and a load reduction resource with a maximum of 1 MW of load reduction):

\_\_\_\_\_  
\_\_\_\_\_

b. Maximum Injection Capability of entire **Distributed Energy Resource Small Generating Facility** over 1 hour: \_\_\_\_\_

c. If the **Small Generating Facility** includes a **Resource with Energy Duration Limitations** and is requesting CRIS, indicate the maximum injection capability for the entire **Distributed Energy Resource Small Generating Facility** over the selected duration (e.g., 10 MWh over 4 hours):

\_\_\_\_\_

d. Provide the following information for each **asset within the DER unit within the Small Generating Facility-facility** (if unchanged from the information provided with the Small Generator Interconnection Request form, as applicable, indicate “No Change”:

Energy Source:      Solar      Wind      Hydro      Hydro Type (e.g. Run-of-River):  
     Diesel      Natural Gas      Fuel Oil      Other (state type)

Prime Mover: Fuel Cell Recip Engine Gas Turb Steam Turb  
Microturbine PV Other

Type of Generator: Synchronous Induction Inverter

Generator Nameplate Rating:          kW (Typical) Generator Nameplate kVAR:         

If solar array, fixed, 1-axis, 2-axis, 2-axis flat panel, 2-axis CPV, CSP, etc.):         

Interconnection Customer or Customer-Site Load:          kW (if none, so state)

Existing load? Yes No

If existing load with metered load data, provide coincident Summer peak load:         

If new load or existing load without metered load data, provide estimated coincident Summer peak load, together with supporting documentation for such estimated value:  
        

Typical Reactive Load (if known):         

Maximum Physical Export Capability Requested:          kW

List components of the Small Generating Facility equipment package that are currently certified:

<u>Equipment Type</u>	<u>Certifying Entity</u>
<u>1.</u>	<u>        </u>
<u>2.</u>	<u>        </u>
<u>3.</u>	<u>        </u>
<u>4.</u>	<u>        </u>
<u>5.</u>	<u>        </u>

Is the prime mover compatible with the certified protective relay package? Yes No

Generator (or solar collector)

Manufacturer, Model Name & Number:         

Version Number:         

Nameplate Output Power Rating in kW: (Summer)          (Winter)         

Nameplate Output Power Rating in kVA: (Summer)          (Winter)         

Individual Generator Reactive Capability in kVAR

Leading:          Lagging:         

If wind, total number of generators in wind farm to be interconnected pursuant to this Interconnection Request:         

Generator Height:          Single phase Three Phase

If a Resource with Energy **Duration** Limitations:

Inverter manufacturer, model name, number, and version: \_\_\_\_\_

Energy storage capability (MWh): \_\_\_\_\_

Minimum Duration for full discharge (*i.e.*, injection) (Hours): \_\_\_\_\_

Minimum Duration for full charge (*i.e.*, withdrawal) (Hours): \_\_\_\_\_

Maximum withdrawal from the system (*i.e.*, when charging) (MW): \_\_\_\_\_

Maximum sustained one-hour injection in MW hours: \_\_\_\_\_

Primary frequency response operating range: \_\_\_\_\_

Minimum State of Charge: \_\_\_\_\_ (%)      Maximum State of Charge: \_\_\_\_\_ (%)