

**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 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 Limitations, 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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~~12~~10. Bus length from generation to interconnection station:

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~~13~~11. Line length from interconnection station to Connecting Transmission Owner's transmission line.

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~~14~~12. Tower number observed in the field. (Painted on tower leg):

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~~15~~13. 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 ResourcesResources with Energy Limitations**

In addition to the above information, as applicable, for Energy Storage ResourcesResources with Energy 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: (%)

### **Distributed Energy Resources**

In addition to the above information, as applicable, for Distributed Energy Resources, please also provide the following information:

- a. Describe the composition of assets (including MW level) within the Distributed Energy Resource, 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):

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- b. Maximum Injection Capability of entire Distributed Energy Resource over 1 hour:

- c. If requesting CRIS, indicate the maximum injection capability for the entire Distributed Energy Resource over the selected duration (e.g., 10 MWh over 4 hours):

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- d. Provide the following information for each asset within the DER 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:

Equipment Type	Certifying Entity
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

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 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: \_\_\_\_\_ (%)