Interconnection Feasibility Study Form Agreement

This agreement is made and entered into this _____ day of _____, ____, by and between _____, a _____ (corporation/limited liability company organized and existing under the laws of the State of _____, or an individual) ("Applicant") and _____, a _____ existing under the laws of the State of _____ ("Public Utility"). Applicant and Public Utility each may be referred to as a ''Party,'' or collectively as the ''Parties.''

Recitals:

Whereas, The Applicant is proposing to develop a Small Generating Facility or adding generating capacity to an existing Small Generating Facility consistent with the Application completed by Interconnection Customer on _____;

Whereas, Applicant desires to interconnect the Small Generating Facility with the Public Utility's Electric Distribution System ("EDS"); and

Whereas, Applicant has requested the Public Utility to perform an Interconnection Feasibility Study to assess the feasibility of interconnecting the proposed Small Generating Facility to the Public Utility's EDS;

Now, therefore, in consideration of and subject to the mutual covenants contained herein the Parties agree as follows:

1. When used in this Agreement with initial capitalization, the terms specified shall have the meanings given in the SD Public Utilities Commission's rules, ARSD chapter 20:10:36.

2. Interconnection Customer elects and Public Utility shall cause to be performed an Interconnection Feasibility Study consistent with the SD Public Utilities Commission's rules.

3. The Applicant will provide the data requested in Section 2 of this form. The scope of the Interconnection Feasibility Study shall be subject to the assumptions set in the rules and detailed in this agreement form.

4. The Interconnection Feasibility Study shall be based on the technical information provided by the Applicant in its Application, as may be modified as the result of the Scoping Meeting. The Public Utility reserves the right to request additional technical information from Interconnection Customer as reasonably becomes necessary consistent with Good Utility Practice during the course of the Interconnection Feasibility Study. If, in the course of the Study, the Applicant finds it necessary to modify the Application, the time to complete the Interconnection Feasibility Study may be extended by mutual agreement of the Parties.

5. In performing the study, the Public Utility will rely, to the extent reasonably practicable, on existing studies of recent vintage. The Applicant will not be charged for such existing studies.

6. The Interconnection Feasibility Study shall be completed and the results transmitted to Interconnection Customer within a timeline agreed to by the parties.

In witness whereof, the Parties have caused this agreement to be duly executed by their duly authorized officers or agents on the day and year first above written:

[Insert name of Public Utility]

Signed _____
Name (Printed): _____ Title: _____

[Insert name of Applicant]

Signed _____
Name (Printed): _____ Title: _____

Section 2: Interconnection Feasibility Study Agreement

Assumptions Used in Conducting the Interconnection Feasibility Study

The Interconnection Feasibility Study will be based upon the information set forth in the Application and agreed upon in the Scoping Meeting held on _____.

1. Designation of Point of Interconnection and configuration to be studied.

_____

_____

_____

2. Designation of alternative Points of Interconnection and configuration.

_____

_____

_____

Note: 1 and 2 are to be completed by the Applicant. Any other assumptions (listed below) are to be provided by the Applicant or the Public Utility.

Interconnection Equipment Specifications, Initial Setting Assumptionss, and Operating

~~Requirements~~ Assumptions ~~*~~

~~Address of Facility~~

~~Interconnection Customer: _____~~

~~Facility Operator (if different than above): _____~~

~~Facility Location/ Name: _____~~

~~Telephone No.: _____~~

~~Street Address: _____~~

~~City: _____ State: _____ Zip Code: _____~~

Revision[EME1] Date: _____

~~Energy Production Equipment/Inverter Information~~

~~☐ Synchronous ☐ Induction ☐ Inverter ☐ Other _____~~

~~Electric Nameplate Rating: _____ KW _____ kVA~~

~~Rated Voltage: _____ Volts~~

Rated Current: _____Amps

Phase: ☐ Single ☐ Three-Phase

System Type Tested (Total System): ☐ Yes ☐ No (attach product literature)

For Synchronous Machines

Manufacturer: _____

Model No.: _____ Version No.: _____

Submit copies of the Saturation Curve and the Vee Curve ☐ Salient ☐ Non-Salient

Field Amperes: _____ at rated generator voltage and current and _____% PF over-excited

Type of Exciter: _____

Output Power of Exciter: _____

Type of Voltage Regulator: _____

Locked Rotor Current: _____ Amps

Synchronous Speed: _____RPM

Winding Connection: _____

Min. Operating Freq./Time: _____

Generator Connection: ☐ Delta ☐ Wye ☐ Wye Grounded

Direct-axis Synchronous Reactance: (Xd) _____ohms

Direct-axis Transient Reactance: (X'd) _____ohms

Direct-axis Sub-transient Reactance: (X'd) _____ohms

For Induction Machines

Manufacturer: _____

Model No.: _____ Version No.: _____

Locked Rotor Current: _____ Amps

Rotor Resistance: (Rr)_____ohms Exciting Current: ____Amps

Rotor Reactance: (Xr)_____ohms Reactive Power Required: _____

Magnetizing Reactance: (Xm)_____ohms ___VARs (No Load)

Stator Resistance: (Rs)_____ohms ___VARs (Full Load)

Stator Reactance: (Xs)_____ohms

Short Circuit Reactance: (X'd)_____ohms

Electric Nameplate Capacity rating: (kVA)_____

For Inverter Based Facilities

Manufacturer: _____ Model: _____

Type: ☐ Forced Commutated ☐ Line Commutated

Electric Nameplate Capacity Rated Output: _____ Amps _____ Volts _____KW

~~Efficiency: _____% Power Factor: _____%~~
~~Is Inverter Lab Tested? ☐ Yes (attach product literature) ☐ No~~

~~DC Source / Prime Mover:~~

~~☐ Solar ☐ Wind ☐ Hydro ☐ Other _____~~
~~Electric Nameplate Capacity Rating: _____ KW Rating: _____ kVA~~
~~Rated Voltage: _____ Volts~~
~~Open Circuit Voltage (If applicable): _____ Volts~~
~~Rated Current: _____ Amps~~
~~Short Circuit Current (If applicable): _____ Amps~~

Other Facility Information

~~One Line Diagram attached: ☐ Yes ☐ No~~
~~Plot Plan attached: ☐ Yes ☐ No~~
Isolation Device Type/ Location: _____
Grounding Configuration: _____
Initial Commissioning Date: _____

Switchgear/Circuit Interruption Devices

Switchgear type and control: (used to bring generator on line)
Circuit Breakers: ☐ Closed-transition ☐ Open-transition ☐ Auto Transfer Switch
Nameplate: _____

~~Metering~~

~~Location: _____~~

~~Metering Issues: _____~~

~~Monitoring Provisions: ☐ Yes ☐ No~~

~~Monitoring Values: _____~~

~~Monitoring Issues: _____~~

Initial Set Points at Point of Interconnection

Voltage: _____ kVAr: _____

Power factor: _____

Other: _____

Other: _____

Trip Re-start Protocol

Reclosing Practice: _____

Hold out time: _____

Ramp Rate: _____

Notification required: ☐ Yes ☐ No

~~**Operations and Maintenance Schedule**~~

~~Operating Hours: _____ Availability (%): _____~~

~~Seasonal Effect: _____~~

~~Routine and Annual Maintenance Schedule: _____~~

~~* Initial operating set points and "as built" equipment data is to be recorded on or about the time of the Witness Test. Parties may not deviate from initial settings and agreed upon operating parameters except as permitted by the rules without written authorization of the Public Utility. The Interconnection Customer will furnish updated information to the Public Utility any time a special operating requirement initial set point or the Interconnection Equipment is materially changed.~~