**Section 467.APPENDIX B Application**

**Large Interconnection Request Application Form**

**(Greater than 10 MVA)**

**Applicant Contact Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name: | |  | | | | | | | | | | | | |
| Company: | | |  | | | | | | | | | | | |
| Mailing Address: | | | |  | | | | | | | | | | |
| City: |  | | | | | | State: |  | | | | | Zip Code: |  |
| Telephone (Primary): | | | | | |  | | | | (Alternate): |  | | | |
| Facsimile Number: | | | | |  | | | | E-Mail Address: | | |  | | |

**Alternative or Designated Representative Contact Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name: | |  | | | | | | | | | | | | |
| Company: | | |  | | | | | | | | | | | |
| Mailing Address: | | | |  | | | | | | | | | | |
| City: |  | | | | | | State: |  | | | | | Zip Code: |  |
| Telephone (Primary): | | | | | |  | | | | (Alternate): |  | | | |
| Facsimile Number: | | | | |  | | | | E-Mail Address: | | |  | | |

**Distributed Energy Resources Facility Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Project Name: | |  | | | | | | | | | | | | | |
| Facility Address: | | |  | | | | | | | | | | | | |
| City: |  | | | County: | |  | | State: |  | | | | | Zip Code: |  |
| Electric Distribution Company (EDC) serving Facility site: | | | | | | | | | | |  | | | | |
| Electric Supplier (if different from EDC): | | | | | | |  | | | | | | | | |
| Account Number of Facility site (existing EDC customers): | | | | | | | | | | | |  | | | |
| Inverter Manufacturer: | | | | |  | | | | | Model: | | |  | | |

**Equipment Contractor (if known):**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name: | |  | | | | | | | | | | | |
| Mailing Address: | | |  | | | | | | | | | | |
| City: |  | | | | | State: |  | | | | | Zip Code: |  |
| Telephone (Primary): | | | | |  | | | | (Alternate): |  | | | |
| Facsimile Number: | | | |  | | | | E-Mail Address: | | |  | | |

**Electrical Contractor (if known):**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name: | |  | | | | | | | | | | | | |
| Mailing Address: | | |  | | | | | | | | | | | |
| City: |  | | | | | State: |  | | | | | | Zip Code: |  |
| Telephone (Primary): | | | | |  | | | | (Alternate): |  | | | | |
| Facsimile Number: | | | |  | | | | E-Mail Address: | | |  | | | |
| License number: | | |  | | | | | | | | |  | | |

**Existing Electric Service Information for Customer Facility Where Generator Will Be Interconnected**

Check here if there is no existing electric service at the site

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Capacity: |  | | | | (Amps) | | | Voltage: |  | | (Volts) |
| Type of Service: | | Single-Phase | | | | | | Three-Phase | | | |
| (If customer-provided) Three-Phase Transformer, Indicate Type: | | | | | | | | | | | |
| Primary Winding | | | | Wye | | Delta | | | | | |
| Secondary Winding | | | | Wye | | Delta | | | | | |
| Transformer Size: | | |  | | | | Impedance: | | |  | |
| Point of Interconnection − Brief Description and Address of the Distributed Energy Resources | | | | | | | | | | | |
| Location: |  | | | | | | | | | | |

**Intent of Generation (check all that apply):**

Offset Load (Unit will operate in parallel, but will not export power to EDC)

Back-up Generation (Units that temporarily operate in parallel with the electric distribution system for more than 100 milliseconds)

Qualified Facility ("QF") under PURPA

|  |  |  |
| --- | --- | --- |
|  | Other, please describe: |  |

Note: Backup units that do not operate in parallel for more than 100 milliseconds do not need an interconnection agreement.

**Generator & Prime Mover Information**

|  |  |  |
| --- | --- | --- |
| ENERGY SOURCE (Hydro, Wind, Solar, Process Byproduct, Biomass, Oil, Natural Gas, Coal, etc.): | | |
| ENERGY CONVERTER TYPE (Wind Turbine, Photovoltaic Cell, Fuel Cell, Steam Turbine, etc.): | | |
| NAMEPLATE CAPACITY:  kW or  kVA | NUMBER OF UNITS: | TOTAL EXPORT CAPACITY:  kW or  kVA |
| GENERATOR TYPE (Check one):  Induction  Inverter  Synchronous  Other | | |

**Distributed Energy Resources Facility Information**

**Estimated Commissioning Test Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Note: Provide the following information to the extent known. The EDC will contact you for additional information that may be needed after reviewing the application.*

**List interconnection components/systems to be used in the distributed energy resources facility.**

|  |  |  |
| --- | --- | --- |
| Component/System | | NRTL Providing Label & Listing |
| 1. |  | |
| 2. |  | |
| 3. |  | |
| 4. |  | |
| 5. |  | |

*Please provide copies of manufacturer brochures or technical specifications*

**Energy Production Equipment/Inverter Information:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Synchronous | | | Induction | | Inverter | | | | | | Other | | |  | |
| Rating: |  | | | kW | | | | | Rating: | | |  | | | kVA |
| Rated Voltage: | |  | | | | | Volts | | | | | | | | |
| Rated Current: | |  | | | | | Amps | | | | | | | | |
| System Type Tested (Total System): | | | | | |  | | Yes | |  | | | No; attach product literature | | |

**For Synchronous Machines:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Manufacturer (when available): | |  | | | | | | | | | | | | | | | | | | | | |
| Model No. (when available): | |  | | | | | | | | | | | Version No. (when available): | | | | | |  | | | |
| Submit copies of the Saturation Curve and the Vee Curve | | | | | | | | | | | | | | | | | | | | | | |
| Salient | | Non-Salient | | | | | | | | | | | | | | | | | | | | |
| Rated RPM: |  | | | | | 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 |
| Synchronous Speed: | | |  | | | | | | | RPM | | | | | | | | | | | | |
| Winding Connection: | | |  | | | | | | | Min. Operating Freq: | | | | | | | | | | |  | |
| 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 | | | | | |
| Negative Sequence Reactance: | | | | | | |  | | | | | | | | ohms | | | | | | | |
| Zero Sequence Reactance: | | | | |  | | | | | | | | | | ohms | | | | | | | |
| Neutral Impedance or Grounding Resister (if any): | | | | | | | | | | | | | |  | | | | | | 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 | | | | | | | | | | | | |
| Phases: | Single  Three-Phase | | | | | | | | | | | | |  | | | | | | | | | | | |
| Frame Size: | |  | | | Design Letter: | | | | |  | | | | | Temp. Rise: | | | | | |  | | °C. | | |

**Limited Export and Non-Export Controls Information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Manufacturer: | |  | | | | | | | | | | | | |
|  | |  | | | | | | | | | | | | |
| Model Number: |  | | | | | | | |  | | |  | | |
|  | | | | | | |  | | | |  | | | |
| Limited Export or Non-Export? | | | | | | | Limited Export | | | | Non-Export | | | |
|  | | | | | | |  | | | |  | | | |
| Control Type: | | |  | | Reverse Power Protection | | | | |  | | | Minimum Power Protection | |
|  | | Relative Distributed Energy Resource Rating | | | | |  | | | Configured Power Rating | |
|  | | Limited Export Power Control Systems | | | | |  | | | Limited Export using mutually agreed-upon means | |
|  | | |  | | Directional Power Protection | | | | |  | | | |
| Export Capacity Value: | | | | | |  | | | | | | | | |
| Control Power Setting: | | | |  | | | | | | | | | | |
| Control Power Time Delay (if any): | | | | | | | |  | | | | | | |

**Additional Information for Inverter-Based Facilities**

**Inverter Information:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Manufacturer: | | |  | | | | | | | | | Model: |  | | |  |
| Type: | Forced Commutated | | | | | | | | Line Commutated | | | | | | | |
| Rated Output: | |  | | | | | | Watts | |  | | | | Volts | | |
| Efficiency: |  | | | | % | Power Factor: | | | | |  | | | | % | |
| Inverter UL 1741 Listed: | | | | Yes | | | No | | | | | | | | | |

**DC Source / Prime Mover:**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rating: |  | | kW | Rating: | | | |  | | kVA | |
| Rated Voltage: | |  | | | Volts | | | | | | |
| Open Circuit Voltage (if applicable): | | | | | | |  | | | | Volts |
| Rated Current: | |  | | | | Amps | | | | | |
| Short Circuit Current (if applicable): | | | | | | |  | | Amps | | |

**Dedicated Transformer (applicant owned):**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rating: |  | | | | | | MVA | | | | | |
| Voltage Ratio: | | |  | | / | | |  | kV | | | |
| Fixed Tap Setting: | | | |  | | | | | |  | | |
| Winding connections: | | | | | |  | | | | | |  |
| Impedance: | |  | | | | | | | | | % based on transformer rating | |

**Capacitor Banks:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Type: | |  | |  |
| Size: |  | | MVAR | |

**Other Facility Information:**

One Line Diagram attached:  Yes

Plot Plan attached:  Yes

**Battery Storage Facility Information (If Applicable)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Do the batteries share an inverter with a renewable energy system? | | | | | | | | ☐ Yes | ☐ No | | |
| Does the applicant intend to have the batteries charged by the distribution grid? | | | | | | | | | | ☐ Yes | ☐ No |
| System Manufacturer: | | |  | | | | | | | | |
| Model: |  | | | | | | | | | | |
| Battery Type: | |  | | | | | | | | | |
| Battery Charge/Discharge Rating (kW AC): | | | | | |  | | | | | |
| Maximum Battery Charge/Discharge Rate (kW AC per second): | | | | | | |  | | | | |
| Battery Energy Capacity (kWh): | | | | |  | | | | | | |
| Power Factor Settings Range: | | | |  | | | | | | | |

**Battery Storage Inverter Information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Energy System  Manufacturer: |  | Model: |  | Type: ☐ Forced ☐ Commutated |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Line Commutated Rated Output | Watts: |  | Volts: |  | Efficiency: | \_\_\_\_ % | Power Factor: | \_\_\_\_ % |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Inverter IEEE 1547 / UL 1741 Listed: | | | | | | | ☐ Yes | | | | ☐ No | | | | | | |
| Number of Inverters: | | |  | | | | | | Total Capacity: | | | | | kW | |  | |
| DC Source / Prime Mover: | | | |  | | | | | | - Rating: | |  | | | kW Rating: | |  |
| kVA Rated Voltage: | | Volts | | | | | |  | | | | | | | | | |
| Open Circuit Voltage (If Applicable): | | | | | | Volts | | | | | | |  | | | | |
| Rated Current: | Amps | | | |  | | | | | | | | | | | | |

**Battery Operational Information**

Backup – allows for partial or whole home transition to off-grid during a grid outage. ☐ Yes ☐ No

Solar Self-Powered – the battery will charge from the renewable energy source during normal operation and discharge to serve loads behind your meter. ☐ Yes ☐ No

Solar Non-Export – limits the export of energy to the grid to zero for both the battery and inverter, even if the battery system is fully charged and there is excess renewable source energy. ☐ Yes ☐ No

Time-Based Control (sometimes called time-of-use or TOU mode) – the battery charges during off-peak hours and discharges to serve onsite loads during on-peak hours. ☐ Yes ☐ No

|  |  |  |
| --- | --- | --- |
| Describe any other intended operation of the battery: | |  |
|  |  | |

|  |  |  |
| --- | --- | --- |
| Comments or additional information: | |  |
|  |  | |

**Customer Signature**

I hereby certify that all of the information provided in this Interconnection Request Application Form is true.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Applicant Signature: | |  | | |
| Title: |  | | Date: |  |

An application fee must be submitted before the application can be processed. The application fee is $15,000 for all Large (>10 MVA) Distributed Energy Resources Facilities. Of the total application fee, $5,000 is nonrefundable, while the EDC shall apply the remaining $10,000 toward any subsequent studies related to this application.

**EDC Acknowledgement**

Receipt of the application and fee is acknowledged. This acknowledgement does not preclude the requirement to furnish additional information by the applicant if requested by the EDC when it is necessary for the EDC's review under these procedures. When this interconnection request is deemed complete by the EDC, the EDC shall notify the interconnection customer in writing.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EDC Signature: |  | | Date: | |  |
| Printed Name: |  | Title: | |  | |

(Source: Amended at 46 Ill. Reg. 9788, effective May 26, 2022)