



**Orillia Power Distribution Corporation**  
**Generator Connection Assessment Form**  
**FIT generation**

**Note (\*) = Required info**

**1. Applicant Contact Information** (the legal owner of the generating facility)

Company Name\* \_\_\_\_\_

Company Address\* \_\_\_\_\_

Representative Name\* \_\_\_\_\_

Business HST No.\* \_\_\_\_\_

Phone Number (Main)\* \_\_\_\_\_

Cell : \_\_\_\_\_ Fax Number : \_\_\_\_\_

Email\* : \_\_\_\_\_

**2. Installation Contractor**

Company Name\* \_\_\_\_\_

Company Address\* \_\_\_\_\_

Representative Name\* \_\_\_\_\_

Business HST No.\* \_\_\_\_\_

Phone Number (Main)\* \_\_\_\_\_

Cell : \_\_\_\_\_ Fax Number : \_\_\_\_\_

Email\* : \_\_\_\_\_

**3. Project name\* : \_\_\_\_\_**

Generation Capacity \_\_\_\_\_ kW DC Output Capacity \_\_\_\_\_ kW AC

Rooftop solar  Ground mount solar  other \_\_\_\_\_

OPA contract number \* \_\_\_\_\_

Target in-service date\* \_\_\_\_\_

**4. Service address of generator\* \_\_\_\_\_**



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**5. Primary Intent of the Generation System**

OPA FIT     Net Metering     Incremental project

**6. Type of Interconnection**

Parallel (to load)     Direct connect

**7. Design Requirements**

(a) Orillia Power accepts only three phase power generation (three phase inverter) connection to prevent phase imbalance in a three phase service system.

(b) It is the responsibility of the generator to produce reliable power generation and prevent system disturbances not to affect other customers on our distribution system. If there are evidences of system disturbance detected the generator shall rectify the problem before allowing reconnection to Orillia Power distribution system. Refer to IEEE 1547.2 for proper protective features of a generating system and connection to the grid.

**8. Generator Information**

Type:  Synchronous     Induction     Inverter (go to 10)     Other: \_\_\_\_\_

Manufacturer \_\_\_\_\_ Model No. \_\_\_\_\_

Rated Capacity \_\_\_\_\_ kW, No. of units \_\_\_\_\_ , Nominal Machine Voltage \_\_\_\_\_ V

Direct Axis Transient Reactance X'd \_\_\_\_\_ , Subtransient Reactance X''d \_\_\_\_\_

Battery banks used  Yes     No, If yes capacity \_\_\_\_\_ Ah

**9. Solar Generator Information\***

Manufacturer \_\_\_\_\_ Model No. \_\_\_\_\_

Capacity Rating (AC): \_\_\_\_\_, No. of units \_\_\_\_\_

Line Commutated     Self Commutated     Anti-islanding built-in     < 5% Harmonics

DC ground fault protection:  Yes     No

Fault Interrupter rating or breaker capacity \_\_\_\_\_ kA



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**10. Intermediate Transformer or Step up transformer information (LDC)**

Rating KVA \_\_\_\_\_ Primary Voltage \_\_\_\_\_ Secondary Voltage \_\_\_\_\_

Transformer type  single phase  3 Phase

Impedance \_\_\_\_\_%  kVA base  kV base; R = \_\_\_\_\_ pu X = \_\_\_\_\_ pu

High voltage winding:  Delta  Star (Y), Grounding method for Star with neutral;

solid  Ungrounded  Impedance; R = \_\_\_\_\_ pu, X = \_\_\_\_\_ pu

Low voltage winding:  Delta  Star (Y), Grounding method for Star with neutral;

solid  Ungrounded  Impedance; R = \_\_\_\_\_ pu, X = \_\_\_\_\_ pu

**11. Interface transformer information (or Service Transformer) \***

Rating KVA \_\_\_\_\_ Primary Voltage \_\_\_\_\_ Secondary Voltage \_\_\_\_\_

Transformer type  single phase  3 Phase

Impedance \_\_\_\_\_%  kVA base  kV base; R = \_\_\_\_\_ pu X = \_\_\_\_\_ pu

High voltage winding :  Delta  Star (Y), R = \_\_\_\_\_ pu, X = \_\_\_\_\_ pu

Low voltage winding:  Delta  Star (Y), R = \_\_\_\_\_ pu, X = \_\_\_\_\_ pu

**12. Existing facility main service configuration (check all applicable boxes) \***

120/240V  120/208V  208V  347/600V  600V

**13. Generator output voltage\***

120V  120/240V  120/208V  208V  347/600V  347V  600V

**14. Meter disconnecting device, current & Short Circuit Interrupting Rating**

\_\_\_\_\_ Ampere and \_\_\_\_\_ kA (symmetrical)

**15. Short Circuit Current Contribution of the Proposed Generating Facility**

Three-Phase Symmetrical \_\_\_\_\_ kA & Asymmetrical \_\_\_\_\_ kA

**16. Does the Proposed Generating Facility start with the aid of grid power?**

Yes  No If yes, what is the inrush current \_\_\_\_\_ Amps (inrush current)

