

**TEMPLETON MUNICIPAL LIGHT & WATER PLANT**  
**Non-Utility Generation Interconnection Application**  
**for Facilities with Capacity of More Than 10 kW**

**Contact Information**

**Legal Name and address of Interconnecting Customer (or, Company name, if appropriate)**

Customer or Company Name: \_\_\_\_\_ Contact Person, if Company: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Alternative Contact Information (e.g. system installation contractor or coordinating company)**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Ownership** (include % ownership by any electric utility): \_\_\_\_\_

**Generating Facility Information**

Address of Facility: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Electric Service Company: \_\_\_\_\_ Account Number (if available): \_\_\_\_\_

Type of Generating Unit: Synchronous \_\_\_\_\_ Induction \_\_\_\_\_ Inverter \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

Nameplate Rating: \_\_\_\_\_ (kW) \_\_\_\_\_ (kVAR) \_\_\_\_\_ (Volts) Single \_\_\_\_\_ or Three \_\_\_\_\_ Phase

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

Energy Source: Solar \_\_\_\_\_ Wind \_\_\_\_\_ Hydro \_\_\_\_\_ Diesel \_\_\_\_\_ Natural Gas \_\_\_\_\_ Fuel Oil \_\_\_\_\_ Other \_\_\_\_\_  
(Specify)

UL 1741 Listed? Yes \_\_\_\_\_ No \_\_\_\_\_ Need an air quality permit from DEP? Yes \_\_\_\_\_ No \_\_\_\_\_ Not Sure \_\_\_\_\_

If "yes", have you applied for it? Yes \_\_\_\_\_ No \_\_\_\_\_

Planning to Export Power? Yes \_\_\_\_\_ No \_\_\_\_\_ A Cogeneration Facility? Yes \_\_\_\_\_ No \_\_\_\_\_

Anticipated Export Power Purchaser: \_\_\_\_\_

Export Form? Simultaneous Purchase/Sale \_\_\_\_\_ Net Purchase/Sale \_\_\_\_\_ Net Metering \_\_\_\_\_ Other \_\_\_\_\_  
(Specify)

Est. Install Date: \_\_\_\_\_ Est. In-Service Date: \_\_\_\_\_ Agreement Needed By: \_\_\_\_\_

**Application Process**

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true:

Interconnecting Customer Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

The information provided in this application is complete:

Company Signature: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

**Generating Facility Technical Detail**

List components of the generating facility that are currently certified and/or listed to national standards

	Equipment Type	Manufacturer	Model	National Standard
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____

Total Number of Generating Units in Facility? \_\_\_\_\_

Generator Unit Power Factor Rating: \_\_\_\_\_

Max Adjustable Leading Power Factor? \_\_\_\_\_ Max Adjustable Lagging Power Factor? \_\_\_\_\_

Generator Characteristic Data (for all inverter-based machines)

Max Design Fault Contribution Current? \_\_\_\_\_ Instantaneous \_\_\_or RMS? \_\_\_\_\_

Harmonics Characteristics: \_\_\_\_\_

Start-up power requirements: \_\_\_\_\_

Generator Characteristic Data (for all rotating machines)

Rotating Frequency: \_\_\_\_\_(rpm) Neutral Grounding Resistor (If Applicable): \_\_\_\_\_

Additional Information for Synchronous Generating Units

Synchronous Reactance, Xd: \_\_\_\_\_(PU) Transient Reactance, X'd: \_\_\_\_\_(PU)

Subtransient Reactance, X''d: \_\_\_\_\_(PU) Neg Sequence Reactance, \_\_\_\_\_(PU)

Zero Sequence Reactance, \_\_\_\_\_(PU) kVA Base: \_\_\_\_\_

Field Voltage: \_\_\_\_\_(Volts) Field Current: \_\_\_\_\_(Amps)

Additional information for Induction Generating Units

Rotor Resistance, Rr: \_\_\_\_\_ Stator Resistance, Rs: \_\_\_\_\_

Rotor Reactance, Xr: \_\_\_\_\_ Stator Reactance, Xs: \_\_\_\_\_

Magnetizing Reactance, Xm: \_\_\_\_\_ Short Circuit Reactance, Xd'': \_\_\_\_\_

Exciting Current: \_\_\_\_\_ Temperature Rise: \_\_\_\_\_

Frame Size: \_\_\_\_\_

Total Rotating Inertia, H: \_\_\_\_\_ Per Unit on kVA Base: \_\_\_\_\_

Reactive Power Required In Vars (No Load): \_\_\_\_\_

Reactive Power Required In Vars (Full Load): \_\_\_\_\_

Additional information for Induction Generating Units that are started by motoring

Motoring Power: \_\_\_\_\_(kW) Design Letter: \_\_\_\_\_

**Interconnection Equipment Technical Detail**

Will a transformer be used between the generator and the point of interconnection? Yes \_\_\_ No \_\_\_

Will the transformer be provided by Interconnecting Customer? Yes \_\_\_ No \_\_\_

Transformer Data (if applicable, for Interconnecting Customer-Owned Transformer):

Nameplate Rating: \_\_\_\_\_(kVA) Single \_\_\_ or Three \_\_\_ Phase

Transformer Impedance: \_\_\_\_\_(%) on a \_\_\_\_\_ kVA Base

If Three Phase:

Transformer Primary: \_\_\_\_\_(Volts) \_\_\_ Delta \_\_\_ Wye \_\_\_\_\_ Wye Grounded \_\_\_ Other

Transformer \_\_\_\_\_(Volts) Delta \_\_\_ Wye Wye Grounded Other

Transformer Fuse Data (if applicable, for Interconnecting Customer-Owned Fuse):

(Attach copy of fuse manufacturer's Minimum Melt & Total Clearing Time-Current Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Size: \_\_\_\_\_ Speed: \_\_\_\_\_

Interconnecting Circuit Breaker (if applicable):

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Load Rating: \_\_\_\_\_ Interrupting Rating: \_\_\_\_\_ Trip Speed: \_\_\_\_\_  
(Amps) (Amps) (Cycles)

Interconnection Protective Relays (if applicable):

(If microprocessor-controlled)

List of Functions and Adjustable Setpoints for the protective equipment or software:

Setpoint	Function	Minimum	Maximum
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____

(If discrete components)

(Enclose copy of any proposed Time-Overcurrent Coordination Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Style/Catalog No.: \_\_\_\_\_ Proposed Setting: \_\_\_\_\_

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Current Transformer Data (if applicable):

(Enclose copy of Manufacturer's Excitation & Ratio Correction Curves)

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Potential Transformer Data (if applicable):

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

Manufacturer: \_\_\_\_\_ Type: \_\_\_\_\_ Accuracy Class: \_\_\_\_\_ Proposed Ratio Connection: \_\_\_\_\_

**General Technical Detail**

Enclose 3 copies of site electrical One-Line Diagram showing the configuration of all generating facility equipment, current and potential circuits, and protection and control schemes with a Massachusetts Registered Professional Engineer (PE) stamp.

Enclose 3 copies of any applicable site documentation that indicates the precise physical location of the proposed generating facility (e.g., USGS topographic map or other diagram or documentation).

Proposed Location of Protective Interface Equipment on Property:  
(Include Address if Different from Application Address)

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Enclose copy of any applicable site documentation that describes and details the operation of the protection and control schemes.

Enclose copies of applicable schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).

Please enclose any other information pertinent to this installation.