Distributed Generation Certification Application

This application form is intended for manufacturers of electricity-generating equipment seeking to apply for equipment certification under the Distributed Generation Certification Regulation (DG Regulation).

Applicant Information

Manufacturer:		
Street Address:		
City:	State:	Zip Code:
Contact Person:		
Contact Telephone:	Contact Email:	

DG Regulation Applicability

For each of the items listed below, select one applicable box.

☐ True ☐ False This DG unit **DOES NOT** emit an air contaminant.

☐ True ☐ False This unit **IS** portable.

☐ True ☐ False This unit **IS** used when electrical or natural gas service fails. Back up

☐ True ☐ False This unit **IS** used for emergency water pumping for fire protection or flood relief.

☐ True ☐ False This unit **IS** subject to a local air district's permitting requirement.

If any item above is marked "True," the DG Regulation does not apply to this unit. You may still apply for certification, but DG certification does **not** replace any local, state, or federal requirements. **Therefore, you are responsible for complying with all other applicable rules and regulations.**

Emission Requirements

Which emission standards are you seeking for this DG Unit?

☐ 2007 Fossil Fuel Emission Standard ☐ 2013 Waste Gas Emission Standard

Are you applying for the CHP emission credit?

☐ Yes ☐ No

If yes, is your unit integrated with CHP as a standard package?

☐ Yes ☐ No

If yes, does your unit meet the minimum 60% efficiency requirements?

☐ Yes ☐ No

If yes, provide the CHP technology's make, model, size, and output.

Provide documentation demonstrating that the unit will comply with applicable emission standards for at least 15,000 hours of operation. Refer to the **Other Required Information** section for details, and include this documentation in the application package.

DG Unit Configuration

The DG Unit must be configured as it is marketed, including any additional control equipment or devices that may affect emissions. The following information outlines the proper installation and operation of the DG Unit as it will be certified. Modifications to the information below after source testing or certification will result in non-compliance.

DG unit technology description: Select Technology Description
If Other, describe the technology here or in the application package.
DG unit model number:
Maximum electrical output rating (kW)
Fuel type **(see other required information section)** Select Fuel Type
Does this DG unit use emission control equipment? ☐ Yes ☐ No
Provide a list of components that are critical to ensuring compliance with the applicable emission standards. Include this list in the application package.
Submit the source test report in accordance with the requirements in the **Other Required Information** section. Include the report in the application package.

Labeling

Once certified, each DG unit must have a visible certification label affixed to it. This label must be durable and permanently attached to the unit. It should include, at a minimum, the following information: the year of compliance with emission standards, the type of fuel used, and the number of the Executive Order of Certification. By signing this application form, you acknowledge that you understand this requirement.

Fees

Check the box that applies.

☐ Zero-emission technology (voluntary certifications) **$2,500**
☐ Zero-emission technology (voluntary recertification) **$2,500**
☐ First-time certification (with new source test) **$7,500**
☐ First-time certification (without new source test) **$2,500**
☐ Recertification (with new source test) **$7,500**
☐ Recertification (without new source test) **$2,500**

Other Required Information

15,000- Hour Durability Compliance

DG Units must meet applicable emission standards for 15,000 hours of operation when **operated and maintained according to the manufacturer's instructions.** Compliance can be demonstrated by providing the manufacturer's maintenance plan, which includes all critical components necessary to ensure adherence to the emission standards, as well as any of the following:

1. Expected lifespans of critical components and recommended actions in case of failure
2. Test results showing performance at or exceeding 15,000 hours of operation
3. A manufacturer warranty guaranteeing operational performance for at least 15,000 hours
4. An engineering evaluation
5. A description of any continuous monitoring systems for critical components
6. A description of any onboard diagnostics
7. An overview of system redundancies designed to prevent failure

Fuel Composition Compliance

Fuel composition may be verified in the following ways:

1. **If using California utility natural gas**, provide the utility source of the fuel.
2. **If you did not use California utility natural gas**, provide the fuel source and a certificate of analysis. This certificate should include fuel composition specifications, verification information, test methods, and the higher heating value (HHV) Btu content per cubic foot at standard conditions.

Any alternative fuel used must be approved in writing by the Executive Officer before certification is applied for. Include all written and signed approvals in the application package.

Source Test Report Compliance

The source test report should, at a minimum, include:

- Technical specifications of the unit, including the manufacturer's technical data sheet
- A detailed diagram of the tested unit and/or photographs taken during testing
    - All critical components that are visible should be identified.
    - All sampling locations identified.
- Raw test information and data provided in an editable format, such as an Excel spreadsheet
- Evidence of stable operation
    - Stable operation is operating at constant temperature, fuel consumption rate, and constant electrical output
- Supporting calculations (electronic format is acceptable)
- Quality assurance and control information, including at a minimum:
    - Calibration details for all measuring devices, such as the electric meter, sensor, thermocouples, etc.
    - Signed Quality Assurance Statement for all test reports
- Justifications for any invalid test runs and time gaps in testing
- A list of sampling and analytical procedures (test methods), and a written statement claiming all testing was performed in accordance with §94207 of the regulation, other approved alternative.

Any alternative test procedures or sampling methods used must be approved in writing by the Executive Officer before applying for certification. Include all written and signed approvals in the application package

Emission Information

Run	1	2	3
Exhaust flow rate (dSCFM)			
Tested power output (kW)			
CHP, recoverable heat (MMBtu/hr)			
Energy input HHV (MMBtu/hr)			
Concentrations as Reported (ppmvd)	**1**	**2**	**3**
NO_x			
CO			
VOC			
Test Span Gas Concentrations (ppmvd)	**1**	**2**	**3**
NO_x			
CO			
VOC			
Emissions (lb/hr)	**1**	**2**	**3**
NO_x			
CO			
VOC			
Total calculated power output (MW)			

CHP Information from Water Loop Measurement

Run	1	2	3	Average
Water flow rate (gpm)				
Inlet temperature (degrees F)				
Outlet temperature (degrees F)				

Emission Results

Emissions (lb/MWh)	1	2	3	Average
NO_x				
CO				
VOC				

Legend

CHP, recoverable heat	The amount of energy the unit transferred to the water loop during testing.
Total calculated power output	Tested power output added to the credit given for CHP, recoverable heat (at 1 MWh per 3.4 MMBtu).
NO_x	NO_x concentrations and emissions are to be reported as NO_2
CO	CO concentrations and emissions are to be reported as CO.
VOC	VOC concentrations and emissions are to be reported as hexane.

Package Submittal

The application is not considered submitted until both of the items below are received as described.

Fee Submittal:

Complete the application form and submit a check or money order made payable to the California Air Resources Board. Mail your payment to:

Accounting Office
California Air Resources Board
P.O. Box 1436, Sacramento, CA 95812.

Application Submittal:

An electronic version of the entire application package, which should include this application form, any required information, and a photocopy of the payment, must be emailed to DG@arb.ca.gov.

Responsible Official Signature

A responsible official is an individual with authority to certify that the manufacturer will comply with all requirements and conditions set forth in any subsequent Executive Order issued pursuant to this application and sections 94201-94212 of the California Code of Regulations.

If you have any questions regarding this application or the certification process, get in touch with DG@arb.ca.gov.

I certify that all information contained herein and submitted with this application is true, accurate, and complete.

Signature:	Date:
Printed Name:	Title: