

**State of California
AIR RESOURCES BOARD**

Executive Order DG-045

**Distributed Generation Certification of
FlexEnergy Energy Systems
GT333SM Microturbine**

WHEREAS, the California Air Resources Board (CARB) was given the authority under California Health and Safety Code Section 41514.9 to establish a statewide Distributed Generation (DG) Certification Program to certify electrical generation technologies that are exempt from the permit requirements of air pollution control or air quality management districts;

WHEREAS, this DG Certification does not constitute an air pollution permit or eliminate the responsibility of the end user to comply with all federal, state, and local laws, rules and regulations;

WHEREAS, on July 31, 2015, FlexEnergy Energy Systems applied for a DG Certification of its 330 kW, GT333SM microturbine and whose application was deemed complete on September 15, 2015;

WHEREAS, the GT333SM microturbine is manufactured and sold with integrated combined heat and power technology;

WHEREAS, title 17, California Code of Regulations (CCR), section 94203(b) allows for an energy credit at the rate of one megawatt-hour for each 3.4 million British thermal units of heat recovered to be used when calculating emission rates;

WHEREAS, FlexEnergy Energy Systems has demonstrated that the GT333SM microturbine complies with the minimum efficiency requirement in title 17, CCR, section 94203(b);

WHEREAS, FlexEnergy Energy Systems has demonstrated, according to test methods specified in title 17, CCR, section 94207, that its natural gas fueled GT333SM microturbine has complied with the following emission standards:

1. Emissions of oxides of nitrogen no greater than 0.07 pounds per megawatt-hour;
2. Emissions of carbon monoxide no greater than 0.10 pounds per megawatt-hour; and,
3. Emissions of volatile organic compounds no greater than 0.02 pounds per megawatt-hour;

WHEREAS, FlexEnergy Energy Systems has demonstrated that its GT333SM microturbine complies with the emission durability requirements in title 17, CCR, section 94203(d);

WHEREAS, FlexEnergy Energy Systems was issued a DG Certification on February 2, 2016, for its GT333SM microturbine;

WHEREAS, FlexEnergy Energy Systems, on January 21, 2021, applied for a DG recertification of its GT333SM microturbine, and CARB deemed the application complete on February 19, 2021;

WHEREAS, FlexEnergy Energy Systems' renewal application confirmed that no changes to the GT333SM microturbine since the 2016 certification would increase the GT333SM microturbine's emissions or reduce its efficiency from the 2016 certification;

WHEREAS, I find that the Applicant, FlexEnergy Energy Systems, has met the requirements specified in article 3, title 17, CCR, and has satisfactorily demonstrated that the GT333SM microturbine meets the DG Certification Regulation 2007 Fossil Fuel Emission Standards;

NOW THEREFORE, IT IS HEREBY ORDERED, that a DG Certification, Executive Order DG-045, originally executed at Sacramento, California on February 2, 2016, is hereby extended.

This DG Certification:

- 1) is subject to all conditions and requirements of CARB's DG Certification Program, Article 3, Title 17, CCR, including the provisions relating to inspection, denial, suspension, and revocation;
- 2) shall be void if any manufacturer's modification results in an increase in emissions or changes the efficiency or operating conditions of a model, such that the model no longer meets the DG Certification Regulation 2007 Fossil Fuel Emission Standards;
- 3) shall be void if the unit is manufactured or sold without the combined heat and power system integrated;
- 4) shall be void if any manufacturer modification results in the model no longer meeting the minimum efficiency requirements in section 94203(b); and,

5) shall expire on the 2nd day of February 2026.

Executed at Sacramento, California, this 19th day of April 2021.

A handwritten signature in blue ink, appearing to read 'M. Botill', with a long horizontal flourish extending to the right.

Matthew Botill
Acting Division Chief
Industrial Strategies Division