

California Environmental Quality Act (CEQA)

MITIGATED NEGATIVE DECLARATION

CEQA LEAD AGENCY:

Bay Area Air Quality Management District

PROJECT TITLE AND PERMIT APPLICATION NUMBER:

Potrero Hills Energy Producers Landfill Gas to Energy Project (Permit Application 23333)

PROJECT LOCATION:

Potrero Hills Energy Producers, LLC (Plant # 20139 / Site # B0139)
3675 Potrero Hills Lane
Suisun City, CA 94585

PROJECT DESCRIPTION:

The Potrero Hills Energy Producers (PHEP) Landfill Gas to Energy (LFGE) project would be located at the existing Potrero Hills Landfill (PHLF), which is located at 3675 Potrero Hills Lane, Solano County, California. Potrero Hills Energy Producers, LLC, the project proponent, has submitted to the Bay Area Air Quality Management District (BAAQMD) an application for an Authority to Construct and Permit to Operate for the proposed LFGE project. This will be a new facility that is independent of the existing PHLF.

The purpose of the proposed LFGE project is to supply a source of renewable energy, utilizing landfill gas (LFG) as its fuel, and to provide local utilities with renewable energy that can be used to meet the State of California's mandated Renewables Portfolio Standard. The proposed LFGE project would utilize LFG produced by the decomposition of solid waste in the landfill to generate power. LFG is currently collected at the landfill and combusted using an industrial flare. The proposed LFGE project would include the installation of six Caterpillar 3520C internal combustion engine and generator sets that would burn the LFG currently combusted at the PHLF flare and produce energy. Each engine will be abated by an oxidation catalyst to control carbon monoxide and organic compound emissions. Since selective catalytic reduction (SCR) is a possible control measure for nitrogen oxide emissions from the engines, SCR and associated support equipment are included as a potential component of this proposed project. The proposed LFGE project would have a total generation capacity of 9.6 megawatts. The engines and power generation equipment would be housed in a 180-foot long by 80-foot wide by 25-foot high building.

The proposed LFGE project will also include a landfill gas pretreatment system to remove siloxanes and other contaminants. This pretreatment system will be equipped with an adsorption media regeneration system that will be abated by a 3.2 MM BTU/hour enclosed flare. The gas pretreatment system and flare would be located outside of the proposed building. Auxiliary equipment would include three oil tanks (1000-gallon capacity each).

PROPOSED FINDING:

Pursuant to the California Environmental Quality Act (Public Resources Code Section 21000, *et. seq.*) the District is the Lead Agency for the described project. The District has prepared an Initial Study, which accompanies this Mitigated Negative Declaration and is incorporated by this reference, and, on the basis of the study, has determined that the proposed LFGE project would potentially have significant impacts on air quality, biological resources, cultural resources, and geology/soils but revisions incorporated into the project and agreed to by the applicant would reduce the impacts to less than significant.

MITIGATION MEASURES:

The attached Initial Study sets forth the mitigation measures incorporated into the project to avoid potentially significant impacts.