

Public Notice – 401 Certification Application

Date:

February 1, 2023

Applicant:

Hell's Kitchen Geothermal, LLC
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Duly Authorized Representative:

Great Ecology
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Project Name:

Hell's Kitchen Geothermal PowerCo 1 & LithiumCo 1 Project, Located in Imperial County, California

WDID No. 7A133175001, RM 450778, Place ID 885449

Receiving Water:

Three Palustrine (3) IID irrigation return flow drains (S, R, and Q); Palustrine open waters influenced by waters from the Q drain.

Location:

City or area: Located southeast of the Davis Road and Noffsinger Road intersection, between Noffsinger Road and Pound Road, on undeveloped land west of the city of Niland, Imperial County

Latitude/Longitude: 33.22731504 N; -115.5807114 W

Section, Township, Range: Section 11 &12 , Township 11S, Range 13E

Project Description:

Hell's Kitchen Geothermal, LLC (HKG) is proposing the construction of PowerCo 1 (HKP1) and LithiumCo 1 (HKL1), a geothermal power plant and lithium production facility in Imperial County, California. HKP1 and HKL1 are collectively referred to as Stage 1. The purpose of the Project is to supply geothermal energy to the IID and to provide a sustainable domestic source of lithium by producing lithium hydroxide as well as silica, bulk sulfide, and polymetallic products for commercial sale. HKP1 involves the development of a geothermal power plant that would produce up to 49.9 MW of net geothermal energy per year. HKL1 involves the development of mineral extraction and processing facilities capable of producing lithium hydroxide, silica, bulk sulfide, and

polymetallic products for commercial scale. HKL1 would produce approximately 25,000 metric tons of lithium carbonate equivalent per year. A 200-foot wide ROW corridor would be developed to connect these facilities to the interconnect station at Hudson Ranch Energy Services project area. Although HKP1 and HKL1 would be constructed as separate project sites, they would share common facilities to maximize efficiency and minimize impacts. Geothermal energy is a critical alternative energy source that does not burn carbon fuels and is a highly preferred “clean energy” source. The Salton Sea geothermal field has the largest geothermal capacity in the nation with an estimated 2,000MW of undeveloped geothermal potential.

The Stage 1 Project would use a portion of the geothermal energy produced to separate lithium from Salton Sea brine, and ultimately would produce lithium with almost zero carbon emissions while also significantly reducing the water consumption and physical footprint associated with conventional lithium mining.

Anticipated Project Start and End Dates:

December 1, 2023 – December 1, 2024

US Army Corps of Engineers Nationwide Permit Number(s):

US Army Corps of Engineers Los Angeles Individual Permit

Action:

Pending

Water Board Contact:

Kai Dunn, Surface Water Protection Section Chief

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