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Comment Received From: Kathryn Hackett-Fields

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Letter and Newspaper Article Attachment

Additional submitted attachment is included below.

September 16, 2014

Robert Weisenmiller, Ph.D.

California Energy Commission
1516 Ninth Street, MS-33
Sacramento, CA 95814

Dear Dr. Weisenmiller,

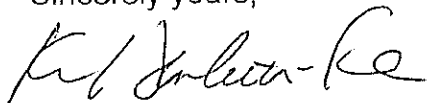
I am writing regarding the enclosed article. While it would seem to be starkly obvious in this day and age to cease solar plant operation for even the potential to incinerate migratory birds and ducks, I see it is not. Instead, three large corporate entities are seeking your approval via the Commission for an ill-sited expansion.

I have no argument against initiatives that have a reasonably low degree of environmental impact, knowing that electrical power is a necessity. However, when it is already known without spending a dime on research that an important migratory flight path exists overhead, I can find no excuse for approval of a petition, an impact study, or any other means of proceeding. It is disturbing and physically repugnant to think of the deaths that have already occurred. But it is completely unbelievable that an individual such as yourself would continue to contemplate allowing "the highest lethality potential" to proceed.


Please do not be party to allowing any expansion by NRG Solar, BrightSource, and Google, which deferred comment. Little wonder.

I thank you very much for your time in reading this letter. I am one who hikes and patiently waits for hours to occasionally glimpse one or two of our largest migratory birds of prey. I hope and pray you can make this possible for people long after I'm gone. For an excellent, fast education on why else it's important, try PA's *Hawk Mountain Sanctuary* website. That key Northeastern area was saved by the efforts of a few.

Sincerely yours,



Kathryn Hackett-Fields



Received 9.22.14

Solar plant burning birds in Mojave Desert

By JOHN LOCHER
The Associated Press

IVANPAH DRY LAKE, Calif. — Workers at a state-of-the-art solar plant in the Mojave Desert have a name for birds that fly through the plant's concentrated sun rays — "streamers," for the smoke plume that comes from birds that ignite in midair.

Federal wildlife investigators who visited the BrightSource Energy plant last year and watched as birds burned and fell, reporting an average of one "streamer" every two minutes, are urging California officials to halt the operator's application to build a still-bigger version.

The investigators want the halt until the full extent of the deaths can be assessed. Estimates per year now range from a low of about a thousand by BrightSource to 28,000 by an expert for the Center for Biological Diversity environmental group.

The deaths are "alarming. It's hard to say whether that's the location or the technology," said Garry George, renewable-energy director for the California chapter of the Audubon Society. "There needs to be some caution."

The bird kills mark the latest instance in which the quest for

clean energy sometimes has inadvertent environmental harm. Solar farms have been criticized for their impacts on desert tortoises, and wind farms have killed birds, including numerous raptors.

"We take this issue very seriously," said Jeff Holland, a spokesman for NRG Solar of Carlsbad, Calif., the second of the three companies behind the plant. The third, Google, deferred comment to its partners.

The \$2.2 billion plant, which launched in February, is at Ivanpah Dry Lake near the California-Nevada border. The operator says it's the world's biggest plant to employ "power towers."

More than 300,000 mirrors, each the size of a garage door, reflect solar rays onto three boiler towers, each looming up to 40 stories high. The water inside is heated to produce steam, which turns turbines that generate enough electricity for 140,000 homes.

Sun rays sent up by the field of mirrors are bright enough to dazzle pilots flying in and out of Las Vegas and Los Angeles.

Federal wildlife officials said Ivanpah might act as a "mega-trap" for wildlife, with the bright light of the plant attracting insects which in turn attract insect-eating

birds that fly to their death in the intensely focused light rays.

Federal and state biologists call the number of deaths significant, based on sightings of birds getting singed and falling, and on retrieval of carcasses with feathers charred too severely for flight.

Ivanpah officials dispute the source of the "streamers," saying at least some of the puffs of smoke mark insects and bits of airborne trash being ignited by the solar rays.

Wildlife officials who witnessed the phenomena say many of the clouds of smoke were too big to come from anything but a bird, and they add that they saw "birds entering the solar flux and igniting, consequently become a streamer."

U.S. Fish and Wildlife officials say they want a death toll for a full year of operation.

Given the apparent scale of bird deaths at Ivanpah, authorities should thoroughly track bird kills there for a year, including during annual migratory seasons, before granting any more permits for that kind of solar technology, said George of the Audubon Society.

The toll on birds has been surprising, said Robert Weisenmiller, chairman of the California Energy

Commission. "We didn't see a lot of impact" on birds at the first, smaller power towers in the U.S. and Europe, Weisenmiller said.

The commission now is considering the application from Oakland-based BrightSource to build a mirror field and a 75-story power tower that would reach above the sand dunes and creek washes between Joshua Tree National Park and the California-Arizona border.

The proposed plant is on a flight path for birds between the Colorado River and California's largest lake, the Salton Sea — an area, experts say, is richer in avian life than the Ivanpah plant, with protected golden eagles and peregrine falcons and more than 100 other species of birds recorded there.

U.S. Fish and Wildlife Service officials warned California this month that the power-tower style of solar technology holds "the highest lethality potential" of the many solar projects burgeoning in the deserts of California.

The commission's staff estimates the proposed new tower would be almost four times as dangerous to birds as the Ivanpah plant. The agency is expected to decide this autumn on the proposal.

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Why not enough as it is??