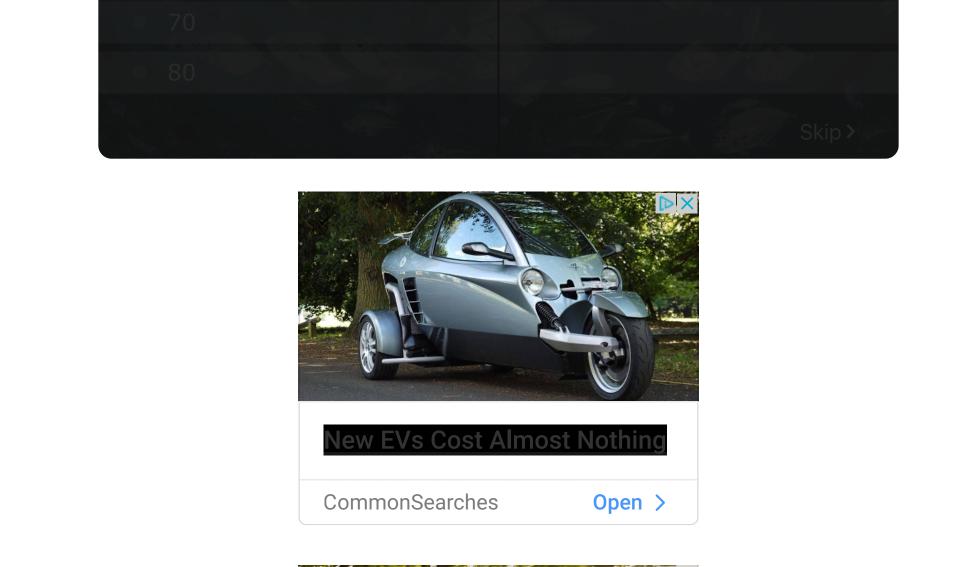


## replaced with cleaner drone and laser light shows to prevent "highly damaging" impacts. Lead author Professor Bill Bateman noted that fireworks remain globally popular despite the overwhelming evidence that they negatively impact wildlife, domestic animals, and the environment. "Fireworks create short-term noise and light disturbances that cause distress in

domestic animals that may be managed before or after a firework event, but the impacts to wildlife can be on a much larger scale," said Professor Bateman.



"The annual timing of some large-scale firework events coincides with the migratory or reproductive movements of wildlife, and may therefore have adverse long-term population effects on them. Fireworks also produce significant pulses of highly pollutant materials that also contribute significantly to the chemical pollution of soil, water, and air, which has implications for human as well as animal health." To investigate the potential harm caused by firework displays, the researchers reviewed the ecological effects of Diwali festivities in India, Fourth of July celebrations across the United States, and other events in New Zealand and Europe.

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familiarized with flashes of light, there is very little that can be done to address the disturbing impact of noise from fireworks on animals and wildlife," said Professor Bateman. "The future of firework displays may be in the use of safer and greener alternatives such as drones, eco-friendly fireworks or visible-wavelength lasers for light shows." "There is growing evidence that these community events can be managed in a

by cleaner options that are not harmful to wildlife and the environment."

The study authors noted that firework residues also contribute significantly to

chemical pollution of soil, water, and air, which has implication for human as well

sustainable way and it's clear that out-dated firework displays need to be replaced

"Other than horses, for which there is some evidence that they can be gradually

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The review confirmed that fireworks affect wildlife in the long-term. For example,

Furthermore, Spanish festivals have been linked to lower breeding success among

the experts found that sea lions along the coastline of Chile have changed their

breeding season as a result of New Year's fireworks. In California, July firework

displays are associated with a decline of Brandt's cormorant colonies.

migration or mating periods could limit these ecological impacts.

Professor Bateman said that firework bans at sensitive periods for wildlife

house sparrows.

as animal health.

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By Chrissy Sexton, Earth.com Editor

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cultural traditions without perpetuating their adverse impacts," wrote the researchers. The study is published in the journal Pacific Conservation Biology.

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'greener' alternatives that also present a sustainable way forward for maintaining

"Modern technological alternatives to traditional fireworks – both 'eco-friendly'

fireworks, and reusable drone and laser-based light shows - provide safer,

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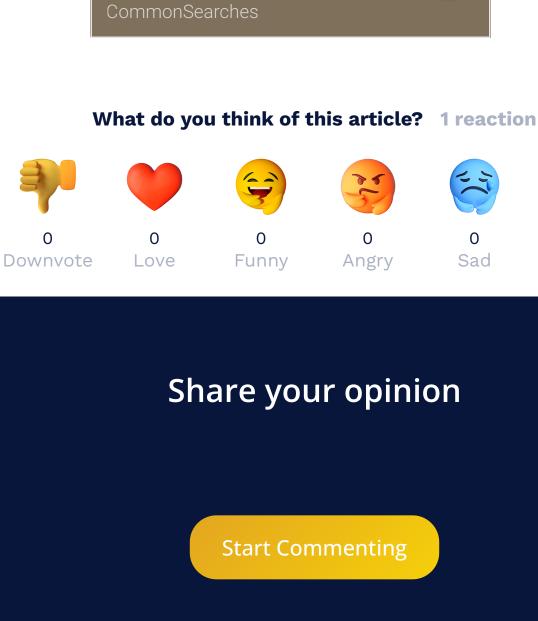
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