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Propose Innovative Albedo Enhancement for California's snow pack preservation

At Climformatics, we have worked extensibly in climate modeling, simulation and impact assessment for Arctic Sea lce Albedo Enhancement technology for the non-profit 'Arctic lce Project' (AIP, https://www.arcticiceproject.org/) using non-toxic hollow glass microspheres (like white sand). This material when spread ver the Arctic sea ice increases the albedo and has profound effects towards locally and regionally cooling the Arctic and thickening the sea ice. This technology could be beneficial in preserving and enhancing the snow pack in Sierras as also conserving water in other water bodies (like lakes) in California. The benefits of such a technology needs to be vetted using thorough regional climate modeling, simulation and impact assessment before it can be deployed. We appeal to CEC for including such innovative technologies for possible grant solicitations. Listed below are some of our recent Conference & peer reviewed publications on this topic:

American Geophysical Union (AGU) 2022 presentation: https://agu2022fallmeeting-agu.ipostersessions.com/Default.aspx?s=2B-AA-52-3C-7C-D8-14-4C-58-8D-43-90-0F-84-8C-D4

AGU 2021 presentation https://youtu.be/qKnltKjQ5f0

AGU 2020 Presentation https://www.youtube.com/watch?v=qKnltKjQ5f0&t=7s

UN COP 26 presentation https://www.youtube.com/watch?v=K2wyV9Up2FU&t=7s

Earth's Future 2018 Journal Article

Increasing Arctic Sea Ice Albedo Using Localized Reversible Geoengineering, L. Field, D. Ivanova, S. Bhattacharyya, V. Mlaker, A. Sholtz, R. Decca, A. Manzara, D. Johnson, E. Christodoulou, P. Walter, K. Katuri, DOI:10.1029/2018EF000820