

# ES SEMINAR SERIES

12:30-1:30 pm  
04/20/2022

[Zoom](#)

# Daniel Kammen

*Energy Systems for Social Justice*



**Abstract:** The urgency of the climate emergency we face has prompted some nations, corporations, and many civil society organizations to greatly expand their decarbonization and climate protection actions. The paths to deeply (and ultimately entirely) decarbonizing local, national, and regional economies require innovations in a wide range of disciplines. The food-energy-water nexus, as well as sustainable housing and industry, are just a few of these critical intersectional issues. The demand for critical, rare-Earth materials, as just one example, is forecast to grow by 1000% by 2030, demanding new approaches to shifting to sustainable materials, recycling, and reduce usage strategies that are far beyond what is seen as possible today. All of these areas are ripe for innovations at the intersection of analytic and computing tools, materials science, and the interaction of social and technical systems. At the same time, the recognition that social injustice is in many ways tied to our existing, fossil-fuel intensive economy has led to important calls for a 'climate-justice' nexus to protect the planet, people, and nature.

(References are available [here](#))



**Bio:** [Dr. Daniel Kammen](#) is the Senior Advisor for Energy Innovation at the US Agency for International Development (USAID). He is a Coordinating Lead Author for the IPCC. Kammen is also the James and Katherine Lau Distinguished Professor of Sustainability at the University of California, Berkeley, with parallel appointments in the Energy and Resources Group, the Goldman School of Public Policy, and the Department of Nuclear Engineering. His work is focused on decarbonization, energy access, and climate justice.