



Bio

Clinton J. Andrews PhD PE AICP is Professor of Urban Planning and Policy Development, Associate Dean for Planning and New Initiatives, and Director of the Center for Green Building, at Rutgers University's Edward J. Bloustein School of Planning and Public Policy in New Brunswick, New Jersey. His research addresses behavioral, policy and planning questions related to energy use in the built environment. He teaches courses in energy policy, green building, environmental planning, industrial ecology, and quantitative methods. He serves on the executive committee of the Association of Collegiate Schools of Planning, and is a past member of the IEEE board of directors. He currently chairs the IEEE Ethics and Member Conduct Committee. Dr. Andrews was educated at Brown and MIT as an engineer and planner. He has worked in the private sector as a design engineer and technology assessor, helped launch an energy policy project at MIT, and helped to found a science policy program at

Princeton. At Rutgers, he has launched initiatives in energy policy, green building, and innovation studies. He has published over 100 scholarly and popular articles, and his books include *Humble Analysis: The Practice of Joint fact-Finding*, *Regulating Regional Power Systems*, and *Industrial Ecology and Global Change*. Dr. Andrews is a recipient of the IEEE Millenium Medal and the IEEE Society on Social Implications of Technology Brian O'Connell Distinguished Service Award.

Abstract and Questions

Whose innovations are helping? Comparing climate change solutions from engineers, architects, planners, chemists, biologists, and others

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The problem of human-accelerated climate change is serious enough that it is inspiring a range of solutions reflecting a variety of disciplinary and professional perspectives. This talk samples the solution space and asks which proposals are ripe for implementation now as we begin the transition to a post-carbon era. Using examples of innovative buildings, settlements, energy networks, smart infrastructures, and energy production technologies, it compares their maturity, scalability, cost, and side effects. The talk closes with recommendations and an observation that it is only in a very loose sense that we manage these types of complex socio-technological regime transitions.

PDH Questions

1. How strong is the evidence that climate change is occurring?
2. What are the major drivers of anthropogenic climate change?
3. What are plausible greenhouse gas emissions-reduction targets?
4. What can land use planners and local policymakers contribute?
5. What can architects and engineers working on buildings and transportation systems contribute?
6. What can energy system engineers contribute?
7. What can chemists, biologists, and physicists contribute?
8. Is it possible to manage large-scale socio-technological transitions?