

# Effect of the Energy Transition on Water Resources

April 29, 2024

Keck Center, 500 5th St NW, Washington DC

Room 105



MONDAY, APRIL 29, 2024

## MEETING OBJECTIVE

Water, energy, and carbon are closely interconnected, and achieving an equitable and sustainable transition in energy system supply and consumption requires integrated multidisciplinary approaches and strategies that consider their interlinks and feedback loops, while also foreseeing and mitigating unintended environmental and social consequences. Likewise, future water sector supply, demand, treatment, and distribution scenarios have energy use implications. This meeting aims to highlight the diverse roles water plays within the decarbonization pathways and identify critical knowledge gaps and research priorities.

## EASTERN TIME

11:00 am

### Welcome

David Sedlak, Chair, Water Science and Technology Board

11:10 am

### Where does water fit into decarbonization pathways?

*Panelists:*

- Peter Gleick, Pacific Institute
- Ashlynn Stillwell, University of Illinois Urbana-Champaign

*Moderator:* Newsha Ajami, Member, Water Science and Technology Board

12:10 pm

*Break*

1:00 pm

### Session 1: Water for the energy transition

*Panelists:*

- Andrés Clarens, White House Office of Science and Technology Policy and University of Virginia
- Yushan Yan, University of Delaware
- Brendan Moran, University of Massachusetts Amherst

*Moderator:* Kirk Ellison, Electric Power Research Institute

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| <b>2:00 pm</b> | <i>Break</i>  |
| <b>2:05 pm</b> | <b>Session 2: Energy use in the water sector</b><br><i>Panelists:</i> <ul style="list-style-type: none"><li>• <b>Charles Werth</b>, University of Texas at Austin</li><li>• <b>Qilin Li</b>, Rice University</li><li>• <b>Jordan Macknick</b>, National Renewable Energy Laboratory</li><li>• <b>Zhiyong Jason Ren</b>, Princeton University</li></ul> <i>Moderator: TBD</i> , Member, Water Science and Technology Board |
| <b>3:00 pm</b> | <b>Session 3: Social and justice implications of the energy transition's water footprint</b><br><i>Panelists:</i><br><b>Scott Tinker</b> , Bureau of Economic Geology and University of Texas at Austin<br><b>Catherine Flowers</b> , Center for Rural Enterprise and Environmental Justice<br><i>Moderator: TBD</i> , Member, Water Science and Technology Board   |
| <b>3:50 pm</b> | <b>Synthesis and Closing Remarks</b><br><b>Newsha Ajami</b> , Member, Water Science and Technology Board  |
| <b>4:00 pm</b> | <i>Adjourn meeting</i>  |