

Stanford



Holmes Hummel, PhD

Energy Equity & Just Transitions, Managing Director, Precourt Institute for Energy

Bio

BIO

Dr. Holmes Hummel is an interdisciplinary solutionary who has worked at the intersection of energy policy, technology, and finance for two decades in academia, private sector, public policy, and civil society organizations. Most recently, Holmes founded Clean Energy Works to accelerate investments in the clean energy economy by bridging multiple clean energy divides with inclusive financing.

Previously, Dr. Hummel served as the Senior Policy Advisor in the Department of Energy's Office of Policy & International Affairs during the Recovery Act era of 2009-2013. Holmes brought to that experience insight gained as a Congressional Science Fellow selected by American Association for the Advancement of Science (AAAS), serving in the office of Jay Inslee, currently Governor of Washington, who served in Congress at that time. Dr. Hummel has also served on the Board of Cleantech Open, the world's largest cleantech accelerator at that time.

In addition to prior work with energy innovators in the Silicon Valley, Dr. Hummel earned a doctorate degree from Stanford University for interdisciplinary research on energy technology scenarios that achieve 100% clean energy. While in the pursuit of solutions that accelerate just energy transitions, Dr. Hummel has taught Climate Policy Design at the Energy Resources Group at University of California in Berkeley and co-founded four new courses at Stanford in 2020-2021, including Racial Equity in Energy and Quest for an Inclusive Clean Energy Economy.

CURRENT ROLE AT STANFORD

Energy Equity & Just Transitions, Managing Director

Precourt Institute for Energy

Collaborator in Collaborative Learning about Equity and Rapid Decarbonization (CLEAR Decarbonization), one of the first projects selected for an award from the Stanford Sustainability Accelerator

HONORS AND AWARDS

- Endorsement of clean transit finance concept, Global Innovation Lab for Climate Finance (2018)
- International Finalist, Climate Strategy Accelerator (2017)
- Finance for Resilience (FiRe) Award, Bloomberg New Energy Finance (2015)

EDUCATION AND CERTIFICATIONS

- Ph.D., Stanford University , Emmett Interdisciplinary Program in Environment and Resources (2006)
- M.S., Stanford University , Engineering (1999)

- B.S., Stanford University , Energy Engineering (Individually Designed Major) (1999)

PROJECTS

- Towards an Accessible Financing Solution - Clean Energy Works, for Building Decarbonization Coalition (1/1/2020)
- LIFT Solar Everywhere - Clean Energy Works, with Groundswell (10/1/2019)

Teaching

COURSES

2022-23

- E^3: Extreme Energy Efficiency: CEE 107R, CEE 207R (Win, Spr)
- Explore Energy: ENERGY 108, ENERGY 208 (Aut)
- Quest for an Inclusive Clean Energy Economy: CEE 130B, CEE 330B (Win)

2021-22

- E^3: Extreme Energy Efficiency: CEE 107R, CEE 207R (Win, Spr)
- Quest for an Inclusive Clean Energy Economy: CEE 130B (Win)

2020-21

- Applied Hope: Whole-Systems Thinking on Energy Solutions: CEE 107H, CEE 207H (Aut)
- E^3: Extreme Energy Efficiency: CEE 107R, CEE 207R (Win)
- Quest for an Inclusive Clean Energy Economy: CEE 130B, CEE 330B (Win)
- Racial Equity in Energy: CEE 130R, CEE 330 (Aut)
- Scaling Integrative Design for Radical Energy Efficiency: CEE 107D, CEE 207D (Spr)

Publications

PUBLICATIONS

- **Inside the Black Box: Understanding key drivers of global emission scenarios** *ENVIRONMENTAL MODELLING & SOFTWARE*
Kooimey, J., Schmidt, Z., Hummel, H., Weyant, J.
2019; 111: 268–81