

# Ejeong Baik

## Position/Department/Division/Institution/Organization

PhD Candidate, Department of Energy Resources Engineering, Stanford University, USA

## Country

USA

## Career history

Summer 2020 The World Bank Group, South Asia Energy Group Intern  
 Summer 2019 California Public Utilities Commission, Intern Advisor for Commissioner Clifford Rechtschaffen  
 Summer 2017 Technical University of Munich, Renewable and Sustainable Energy Systems Research Intern

## Awards/Publications

Frank G. Miller Fellowship Award (High Academic Achievement)	2018
Sigma Xi Book Award for Outstanding Research	2016
W. Taylor Thom Jr. Prize	2016
Environmental Studies Thesis Prize	2016

- **Ejeong Baik**, Kiran P. Chawla, Jesse D. Jenkins, Clea Kolster, Neha S. Patankar, Arne Olson, Sally M. Benson, Jane C.S. Long, “What is different about different net-zero carbon electricity systems?”, *Energy and Climate Change*, 2021, <https://doi.org/10.1016/j.egycc.2021.100046>
- **Ejeong Baik**, Kais Siala, Thomas Hamacher, Sally M. Benson, “California's Approach to Decarbonizing the Electricity Sector and the Role of Dispatchable, Low-Carbon Technologies”, *International Journal of Greenhouse Gas Control*, 2021, *in review*
- Long, Jane C.S., **Ejeong Baik**, Jesse D. Jenkins, Clea Kolster, Kiran Chawla, Arne Olson, Armond Cohen, Michael Colvin, Sally M. Benson, Robert B. Jackson, David G. Victor, and Steven P. Hamburg. “Clean Firm Power is the Key to California’s Carbon-Free Energy Future.” *Issues in Science and Technology*, March 24, 2021
- E. Larson, C. Greig, J. Jenkins, E. Mayfield, A. Pascale, C. Zhang, J. Drossman, R. Williams, S. Pacala, R. Socolow, **EJ Baik**, R. Birdsey, R. Duke, R. Jones, B. Haley, E. Leslie, K. Paustian, and A. Swan, “Net-Zero America: Potential Pathways, Infrastructure, and Impacts, interim report”, Princeton University, Princeton, NJ, December 15, 2020

- Energy Futures Initiative and Stanford University. “An Action Plan for Carbon Capture and Storage in California: Opportunities, Challenges, and Solutions.” October 2020
- **Ejeong Baik**, Daniel L. Sanchez, Peter A. Turner, Katharine J. Mach, Christopher B. Field, Sally M. Benson, “Geospatial analysis of near-term potential for carbon-negative bioenergy in the United States”, Proceedings of the National Academy of Sciences, 2018, doi: 10.1073/pnas.1720338115
- Peter A. Turner, Katharine J. Mach, David B. Lobell, Sally M. Benson, **Ejeong Baik**, Daniel L. Sanchez, Christopher B. Field, “The global overlap of bioenergy and carbon sequestration potential”, Climatic Change, 2018, <https://doi.org/10.1007/s10584-018-2189-z>
- Mary Kang, **Ejeong Baik**, Alana R. Miller, Karl W. Bandilla, Michael A. Celia, “Effective permeabilities of abandoned oil and gas wells: Analysis of data from Pennsylvania”, Environmental Science and Technology, 2015, doi: 10.1021/acs.est.5b00132

### **Areas of expertise**

- Expertise in assessing natural resources and pathways for decarbonizing large-scale energy systems
- Extensive interdisciplinary research experience, with policy interests in energy and mitigating climate change
- Excellent communication skills with particular strength in presenting technical research to diverse disciplinary audiences