

# Angineh Zohrabian, Ph.D.

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## **ENERGY AND ENVIRONMENTAL ECONOMICS, INC.**

San Francisco, CA

*Senior Consultant*

Dr. Zohrabian joined E3 in 2021, adding to E3's Bulk Grid group her experience in electric power systems, water-energy nexus and greenhouse gas emissions mitigation strategies. She recently graduated from the University of Southern California with a doctorate degree in environmental engineering. In her research, she explored the challenges and opportunities of the water-energy nexus in California in the context of decarbonization and climate change policies.

## **UNIVERSITY OF SOUTHERN CALIFORNIA**

Los Angeles, CA

*Graduate Teaching Assistant*

August 2017 - May 2021

*Graduate Research Assistant*

August 2016 - May 2021

- Developed methods that integrate high temporal and spatial resolution data from EPA and EIA to understand emissions from marginal generators to quantify the emissions tradeoffs of demand-side management strategies
- Led a team of five students that reviewed electricity demand-side management opportunities in the water sector as well as water-related end-uses. In six months, wrote a white paper for Electric Power Research Institute by summarizing over 100 studies from various research entities such as national laboratories, consulting companies, and universities
- As part of the project that guided the Los Angeles Department of Water and Power sustainable energy roadmap, collaborated with the National Renewable Energy Laboratory, working in the load forecast team to estimate electricity demand for future water needs in Los Angeles, considering the city's Sustainability Plan

## **SEED CONSULTING GROUP**

Los Angeles, CA

*Consultant*

*September 2020 - December 2021*

- In a team of 7, provided pro-bono business consulting to a sustainable agriculture non-profit

## **SHARIF ENERGY RESEARCH INSTITUTE**

Tehran, Iran

*Research Associate*

December 2013 - February 2015

- Contributed to develop analytical and experimental methods for assessing regional air emissions from Iran's upstream oil industry.
- Performed process simulations and combustion reaction modeling

## Education

University of Southern California  
*Ph.D., Environmental Engineering*

Los Angeles, CA  
2021

Sharif University of Technology  
M.S., Energy Systems Engineering

Tehran, Iran  
2014

University of Isfahan  
B.S., Chemical Engineering – Process Design

Isfahan, Iran  
2012

## Publications

- **Zohrabian A.**, Sanders K.T. (2021). *Emitting less without curbing usage? Exploring greenhouse gas mitigation strategies in the water industry through load shifting*. Applied Energy, 298, 117194.
- **Zohrabian A.**, Plata S.L., Kim D., Childress A.E., Sanders K.T. (2021). *A review of demand response opportunities in water supply and wastewater systems*. WIREs (Wiley Interdisciplinary Reviews) Water, 8:e1510.
- **Zohrabian A.**, Sanders K.T. (2020). *The energy trade-offs of transitioning to a locally sourced water supply portfolio in the City of Los Angeles*. Energies, 13 (21), 5589.
- **Zohrabian A.**, Kelly T Sanders (2018). *Assessing the impact of drought on the emissions-and water-intensity of California's transitioning power sector*. Energy Policy, 123, 461-470.
- Soltanieh M., **Zohrabian A.**, Gholipour M.J., Kalnay E. (2016). *A review of global gas flaring and venting and impact on the environment: Case study of Iran*. Int. J. Greenhouse Gas Control, 49, 488-509.
- **Zohrabian A.**, Mansouri M., Soltanieh M., Sattari S. (2016). *Techno-economic evaluation of an integrated hydrogen and power co-generation system with CO<sub>2</sub> capture*; Int. J. Greenhouse Gas Control, 44, 94-103.
- Sari A., **Zohrabian A.**, *Simulation study of the effect of feed moisture on autothermal reforming in short contact time catalytic micro channels*. Int. J. of Hydrogen Energy, 39 (7), 3269-3285.

## Citizenship

United States