Manfei Wu

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ENERGY AND ENVIRONMENTAL ECONOMICS, INC.　　　　　　　　　　San Francisco, CA
Managing Consultant

Ms. Wu joined E3 in 2021. Her work focuses on helping utilities and power market participants navigate challenges and opportunities associated with decarbonization and clean energy transition. She has provided integrated resource planning support to Black Hills Colorado and Public Service Company of New Mexico. She has supported E3's work to help Salt River Project develop an Integrated System Plan that aims to establish a coordinated planning framework across different functional teams within SRP as the company moves towards its ambitious sustainability targets. She has also been engaged in helping a utility in Desert Southwest evaluate system resiliency challenges and potential mitigation measures.

Prior to joining E3, Ms. Wu worked with ICF's commercial energy and policy and planning team, where she managed projects on power asset valuation, new technology applications, resource planning, and utility procurements. She brings five years' experience in power market fundamental economic analysis, modeling, and forecasting, with an emphasis on evaluating potential pathways for clean energy transition, reliability implications of deep decarbonization, and economic potential for emerging technologies. Prior to ICF, Ms. Wu worked with the Lawrence Berkeley National Laboratory and American Wind Energy Association on a part-time basis. Ms. Wu holds a Master of Public Policy degree from the University of California, Berkeley, a Bachelor's degree in Economics from Peking University, and a B.A. in International Political Economics from Central University of Finance and Economics.

ICF　　　　　　　　　　　　　　　　　　　　　　　　　Fairfax, VA; Beijing, CHINA
Manager, Energy Markets　　　　　　　　　　　　　　　　　October 2016 – May 2021

- o Managed and led consulting engagements in power market analysis and forecasting, asset valuation, new technology applications, resource planning, and utility procurements; worked with a wide range of clients in the power sector, including utilities, project developers, asset owners, investors, and government agencies; rich project experience analyzing the implication of deep decarbonization and power market operation under high renewable penetration scenarios in various markets in the U.S.
- o Led and coordinated power market fundamental economic modeling and forecasting using proprietary models and licensed tools including PROMOD, IPM (Integrated Planning Model), and SRAM (Stochastic Resource Adequacy Model). Developed new models to support business expansion and the analysis of emerging power market issues such as storage valuation, real-time price simulation, and ancillary service market analysis.
- o Initiated and led business development efforts through report writing, thought leadership, conference speaking, media interviews, and client teach-in sessions.

LAWRENCE BERKELEY NATIONAL LABORATORY　　　　　　　　　　　Berkeley, CA
Research Associate　　　　　　　　　　　　　　　　October 2015 – September 2016

- o Performed regression analysis to identify key drivers of performance variation in U.S. utility-scale photovoltaic projects.
- o Conducted research and drafted reports on international experience in energy efficiency policy design and governance.
- o Analyzed the policy design, implementation, and benefit vs cost implications of the U.S. Clean Power Plan, renewable Portfolio Standard programs, renewable integration policies, and power market deregulation. Summarized policy implications for China and developed policy proposals.

AMERICAN WIND ENERGY ASSOCIATION   Washington, DC
Intern/Graduate Student Consultant   June – August 2015; January – May 2016

- o Assisted in industrial data analysis supporting AWEA's advocacy and member services.

NATIONAL DEVELOPMENT AND REFORM COMMISSION   Beijing, CHINA
Intern   October 2013 – March 2014

- o Supported the development of macroeconomic models to evaluate and project China's coal consumption by end-use sectors under different policy scenarios. Proposed policy recommendations on best approach to reduce coal consumption considering resource and economic constraints.
- o Coordinated discussions between government and private companies on low-carbon project implementation under the Public Private Partnerships (PPP) framework.
- o Monitored and wrote reports on carbon trading pilot projects in China.

Education

University of California, Berkeley   Berkeley, CA
Master of Public Policy, Energy and Environmental Policy   May 2016

Peking University   Beijing, CHINA
Bachelor of Economics   July 2014

Central University of Finance and Economics   Beijing, CHINA
B.A., International Political Economics   July 2014

Citizenship

China