

Dr. Wonjun Chang

Senior Consultant



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Dr. Wonjun Chang is a Senior Consultant in NERA's Global Energy, Environment, Communications & Infrastructure (EECI) Practice. Dr. Chang develops computational frameworks for applications in environmental and energy policy evaluation, energy systems modeling, and large-scale uncertainty analysis.

Dr. Chang has extensive experience in energy policy assessment. His recent work includes an economy-wide impact assessment of potential federal policies designed to reduce greenhouse gas emissions across the US. He has provided a detailed report on the US economic impacts of IMO 2020 – the International Maritime Organization's regulation for a 0.5% sulfur cap on marine fuels (IMO 2020), a global regulation that took effect on 1 January 2020. He has authored numerous policy reports using computable general equilibrium (CGE) models of the global economy that provide assessments of policy and regulatory shocks and has previously led workshops for the European Union on modeling emissions trading using CGE models.

In addition to his experience with energy policy assessments, Dr. Chang is a modeling expert in evaluating the cost-benefits of national ambient air quality standards (NAAQS). His recent work involves designing simulation experiments to test the robustness between pollution exposure and health effects previously reported in epidemiological studies.

Dr. Chang has provided modeling solutions to address key uncertainties in the US power sector. His modeling work has covered a range of important issues in regional electricity markets, including long-term forecasts of customer-owned generation and assessments of revenue streams of energy storage resources under newly proposed energy market rules. He has led workshops for utilities and regional transmission organizations in simulating market participation of energy storage resources under FERC Order 841, including a seminar for PJM on optimal value stacking strategies of storage resources in wholesale electricity markets.

Prior to joining NERA, Dr. Chang was a consultant at a global consulting firm, where he developed models to aid integrated resource planning for electric utility companies in the US. He also worked as an economist at Pacific Northwest National Laboratory, conducting macroeconomic modeling for the US Energy Information Administration's International Energy Outlook. As an expert in uncertainty modeling, he also advises research on stochastic climate-economy models at the Yale School of Forestry and Environmental Studies.

Education

PhD in applied economics, University of Wisconsin-Madison

MSc in economics, London School of Economics

BA in mathematics and economics, Northwestern University

Practice Areas

Energy

Environmental Economics

About NERA

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