




Gaurav Doshi

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Research Interests

Energy and Environmental Economics, Industrial Organization

Education

Ph.D. in Applied Economics, University of Wisconsin-Madison	Expected 2022
B.S. & M.S. in Economics, Indian Institute of Technology Kanpur	May 2017

Research

Job Market Paper

“Wiring America: The Short- and Long-Run Effects of Electricity Grid Expansion”

Abstract: The US needs significant investment in electricity transmission lines in order to decarbonize the power sector. This paper examines the short- and long-run effects of large scale electricity grid expansion. I focus on the rollout of a grid expansion project that linked windy areas in west Texas to population centers in the east. Short-run analysis shows that: (1) Transmission expansion led to moderate declines in fossil fuel generator markups, about 2.5% during peak demand hours and 7% during off-peak hours. (2) It also prevented \$53 million (2020 \$) worth of annual damages from emissions. Long-run analysis finds evidence of higher wind capacity (+202%), more wind turbines (+245%), and bigger wind projects (+121%) in counties with transmission infrastructure. These results highlight that investments in grid level storage and upgrades can be useful in enhancing the value of estimated benefits.

Publications

“**Transmission Integration and the Market for Congestion Revenue Rights.**” With Sheldon (Xiaodong) Du, 2021. *The Energy Journal* 42(5), 247-281.

Working Papers

“**Market Structure and Technology Adoption: Evidence from Renewable Energy.**” With Sarah Johnston

“**An Equilibrium Analysis of Power Purchase Agreement.**” With Yeon Ju Baik (*submitted*)

Other Research

“Trade Growth Accounting in Goods and Services: An Empirical Exercise.” With S.K. Mathur, S. Singh, and A. Shrivastava, 2017. In: Mathur S., Arora R., Singh S. (eds) *Theorizing International Trade*. Palgrave Macmillan, Singapore.

Honors, Fellowships, and Awards

UW-Madison Student Research Grant Competition Award	2021
Barbara Forrest Paper Prize for Best Pre-Dissertation Paper	2020
Kenneth and Pauline Parsons Graduate Award	2019
Academic Excellence Award, Indian Institute of Technology Kanpur	2017
Graduate Research Award (MHRD, India) for Masters’ at IIT Kanpur	2016 - 17
Merit cum Means Scholarship, Indian Institute of Technology Kanpur	2015 - 16

Conference and Seminar Presentations (* co-author presented)

2022: ASSA/AEA Annual Meeting (*scheduled*)

2021: Student Research Colloquium (SRC) UW-Madison; MEA Annual Meeting; Online Summer Workshop in Environment, Energy, and Transportation (OSWEET); AERE Summer Conference; Empirical Methods in Energy Economics (EMEE) Summer Workshop; CU Environmental & Resource Economics Workshop* (*scheduled*); Environment and Natural Resources Seminar (ENR) UW-Madison

2020: ENR Seminar UW-Madison

2019: SRC UW-Madison; AAEA Annual Meeting

2018: ENR Seminar UW-Madison

Teaching Experience (TA)

AAE 722: Machine Learning in Applied Economic Analysis (4.43/5)	Summer 2019
AAE 350: World Hunger and Malnutrition (4.46/5)	Spring 2019

Research Experience

Research Assistant to Prof. Sarah Johnston, UW-Madison	2020 - 22
Research Assistant to Prof. Sheldon Du, UW-Madison	2017 - 18
Research Assistant to Prof. Siddharth Chandra, Michigan State University	2016 - 17

Service

Referee: *The Energy Journal*

Conference reviewer: AAEA Annual Meeting 2019

Coordinator, Student Research Colloquium, AAE, UW-Madison 2019 - 21

Mentor, LGBTQ+ Peer Mentor Program, UW-Madison 2020 - 21

Mentor, Undergraduate Research Scholars Program, UW-Madison 2020 - 21

Skills

Programming Languages: R, Stata, Matlab, L^AT_EX, Python, Julia

Spoken Languages: English (fluent), Hindi (native)

Citizenship

India (F-1 Visa)

Last updated: September 15, 2021