

Economics and Decarbonization

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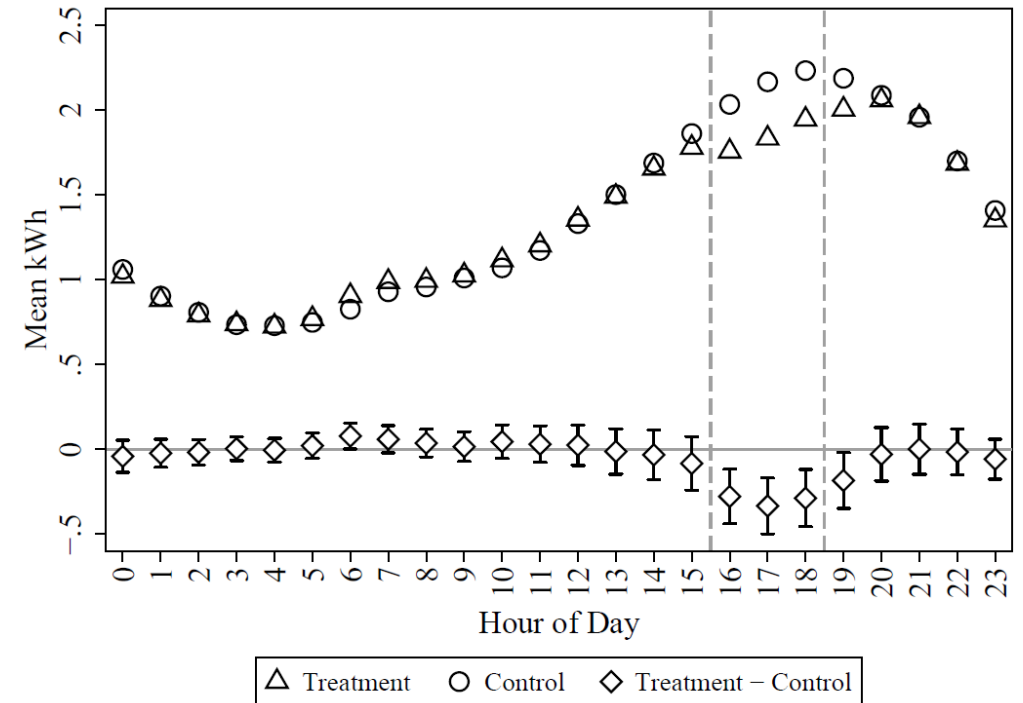
Introduction

- Important time to be working in this area from an economics / policy perspective
 - Climate impacts
 - Equity and justice
 - Jobs
 - Household budgets
 - Business activity
- I'm going to highlight a couple of areas where I've done research in that are relevant as clean energy advances
 - Focusing on effectiveness and equity



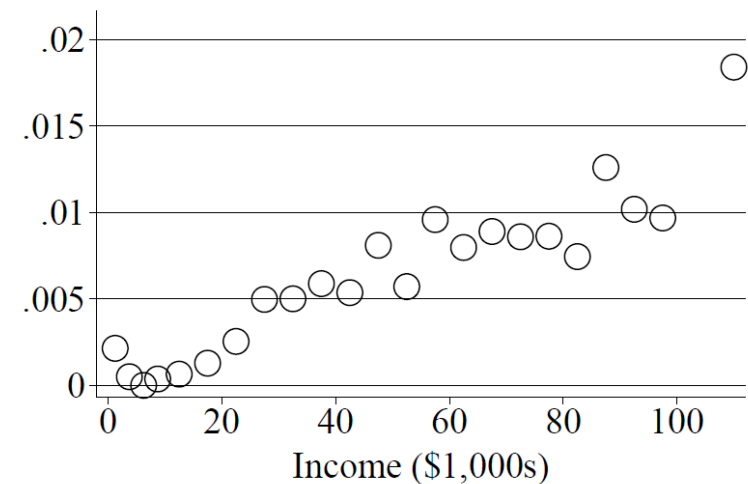
A New Energy System May Require New Forms of Energy Prices

- Intermittent renewables and time-variant pricing
 - My own research on time-variant effectiveness:
 - Complexity vs. responsiveness trade-off
 - Any pricing system has substantial equity implications



Infrastructure Adoption

- Optimizing effectiveness of policies will require measures to be coordinated across areas
 - Ex: EV adoption and renewable generation
- Increasing adoption of “green” infrastructure can be done through standards, penalties, or subsidies.
 - Equity considerations may be especially large here.
 - My research: Subsidies—especially tax credits—for residential energy improvements concentrated in higher income households.



Policy Design and Evaluation Will Be Important

- Most projections of future policy effectiveness are based on an array of underlying assumptions that may not be fully accurate
- Continued data-gathering and analysis will be important to inform and refine policy

ARE BUILDING CODES EFFECTIVE AT SAVING ENERGY? EVIDENCE FROM RESIDENTIAL BILLING DATA IN FLORIDA

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Concluding Thoughts

- Exciting opportunity to craft a new energy / climate future
- Hopefully, UO can play a productive role in the process through teaching, research, and service-based contributions

