Dear Conference Organizers,

Please accept this letter as my self-nomination to attend the upcoming Energy Markets and the Macroeconomy Conference. I am a PhD candidate at Indiana University and expect to complete my degree in June 2026. My research is primarily in environmental economics, with a focus on the macroeconomic impacts of climate change and the economy-wide transition to renewable energy. I am particularly interested in how public policy can influence private investment decisions in the energy sector and the general equilibrium effects of climate policies.

My dissertation focuses on these general equilibrium effects in both a long-run transition and a short-run business cycle framework, as well as empirical identifications of green technology innovation. In my job market paper, "Investment Responses to Environmental Policy: Carbon Taxes, Subsidies, and Public Investment", I develop a general equilibrium climate-economy model to study the economy's transition to a new long-run equilibrium after an environmental policy is implemented, paying close attention to private investments in energy infrastructure. I find that emission reductions and decreases in fossil fuel investment only occur under policy scenarios that include a carbon tax. I also find that public investment crowds out private investment in renewable infrastructure, but this crowding-out effect disappears when the public investment is implemented alongside another policy. Additionally, the largest reductions in emissions and fossil fuel investments, as well as the largest increase in private renewable investments occur when all three policies are implemented at once. This highlights the complementary roles these policies can play, as well as the importance of considering policy outcomes in a general equilibrium setting. Going forward, I plan to incorporate important firm-level and spatial heterogeneities to better capture the market structures and investment risks unique to the energy sector, as these factors almost certainly influence private investment decisions.

After completing my degree, I hope to continue my research into energy markets and how general equilibrium models can be adapted to incorporate environmental factors, climate damages, and the energy sector in order to inform effective policy design. I am eager to start my career and contribute to the growing field of environmental macroeconomics and would be very grateful for the opportunity to meet and engage with scholars at the frontier of this important field. Thank you for considering my self-nomination, and I look forward to hearing from you in the future.

Sincerely,

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