



# Economics Research Issues for Industrial Decarbonization

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# Issues

- Community and EJ benefits and role of economics: Two main categories: measurement of costs and benefits and their distribution; policy design (modeling producer and consumer behavior; externalities)
- Quantifying co-benefits: Pollution – health impacts – valuation – specifically for race, income groups.
- Transparency/information: is education the issue? If so, in what form, to whom? What is morally and ethically based vs. education based? Industry confidential business information impedes transparency and accountability. DOE need to leverage its power.
- Make processes available to DOE: grant decisionmaking, innovation policy design, program evaluation
- Path-dependencies: How economics/modeling research can help give communities and their networks agency.

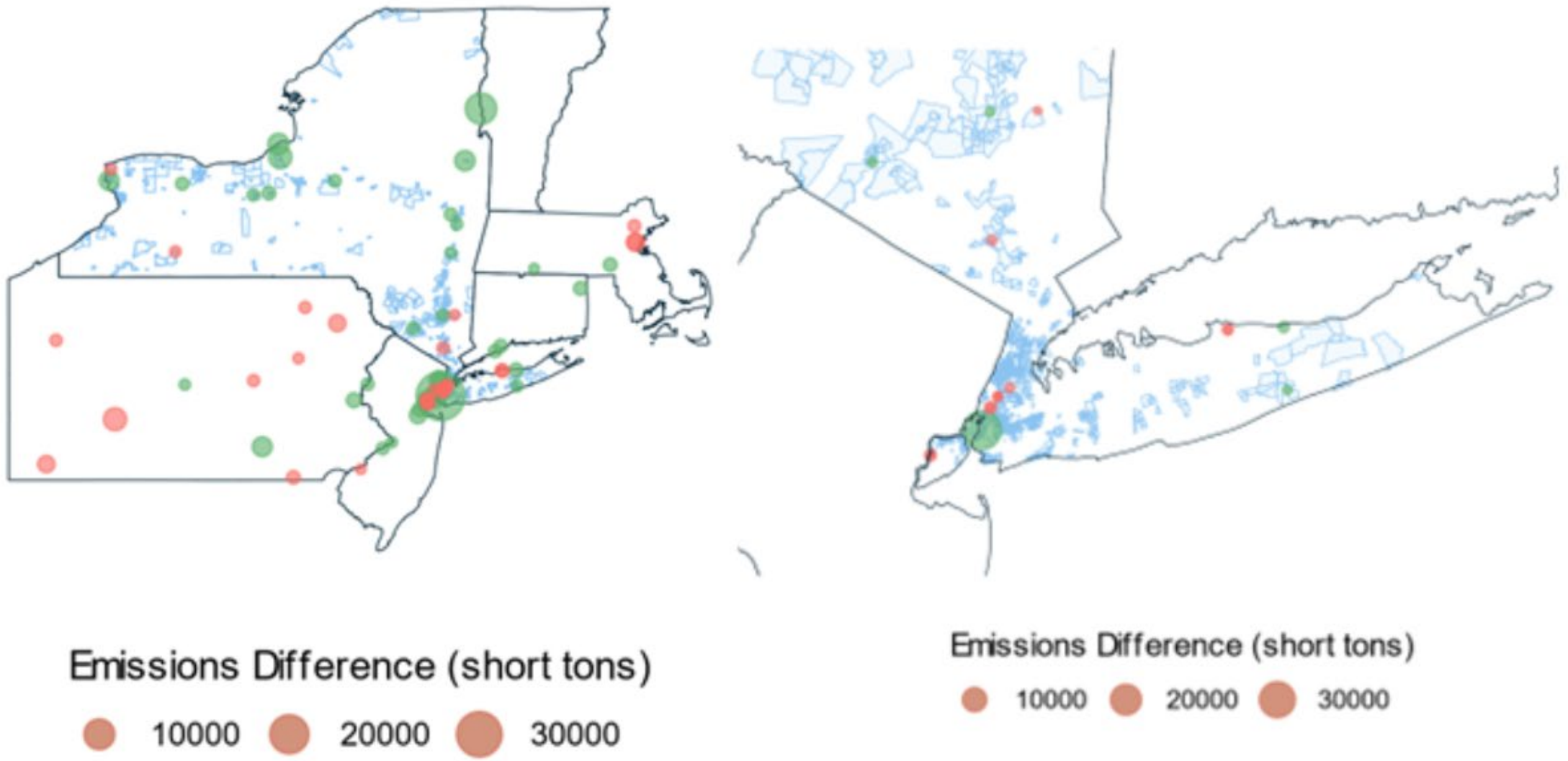


# NYS Net Zero Study with NYC-EJA

- Do EJ policies do better for DACs (emissions and PM2.5 concentrations) than policies suggested by the state?
- Do cap-trade-invest policies with EJ guardrails help DACs more than without guardrails and by how much, and what are the efficiency implications.
- Very promising area for more research.



**FIGURE 6A. CHANGE IN DIRECT PM<sub>2.5</sub> EMISSIONS WHEN FACILITY CAPS ARE ADDED, 2030**



# Figure 10. Air Quality Improvements for CJWG Community Types, CPC to SPC

## 10A. Disadvantaged Communities, Statewide and NYC

PM<sub>2.5</sub> concentration improvements  
(µg/m<sup>3</sup>)

