Getting Health Into Energy Decision Making

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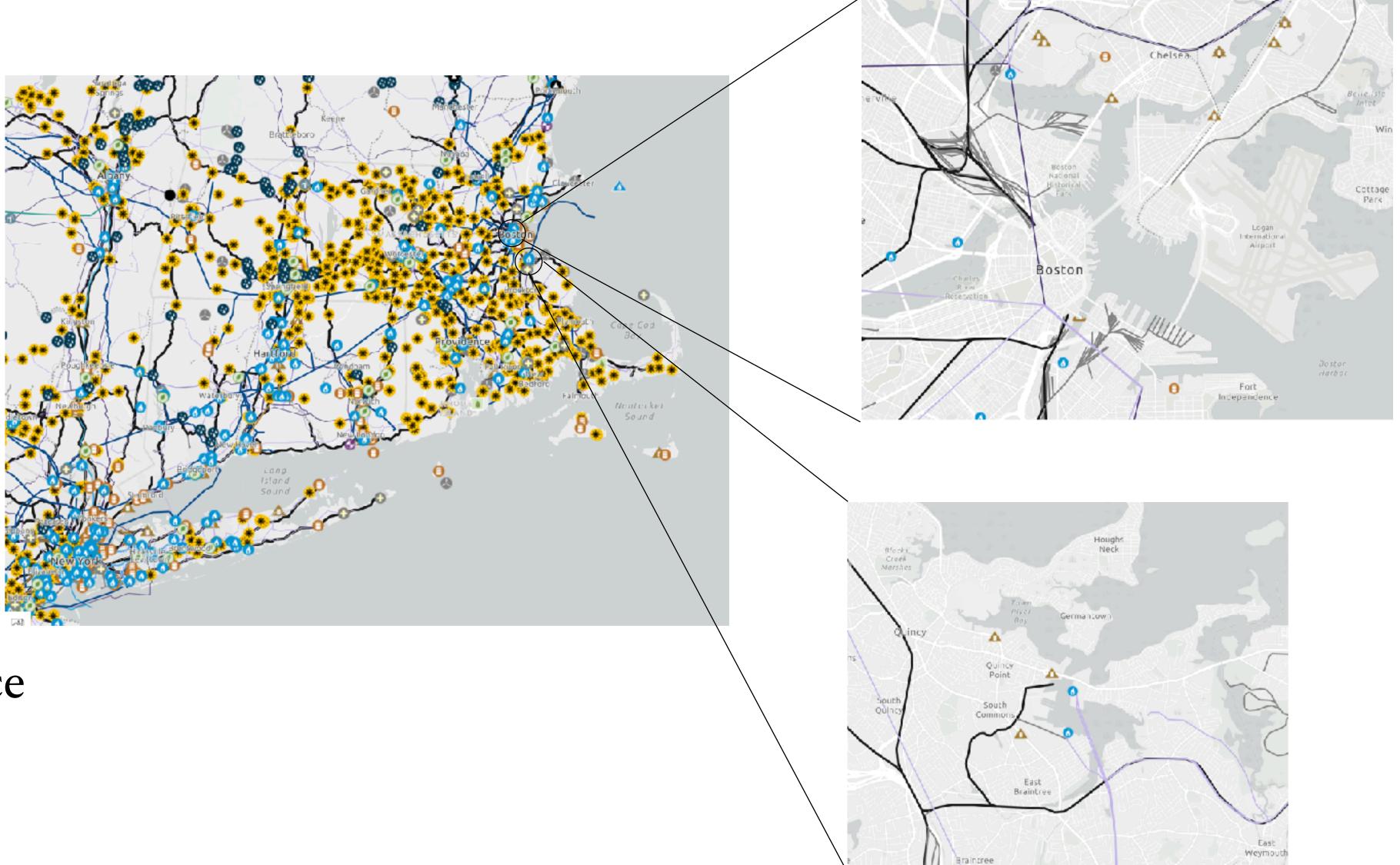
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Big Health and Equity Impacts of Energy

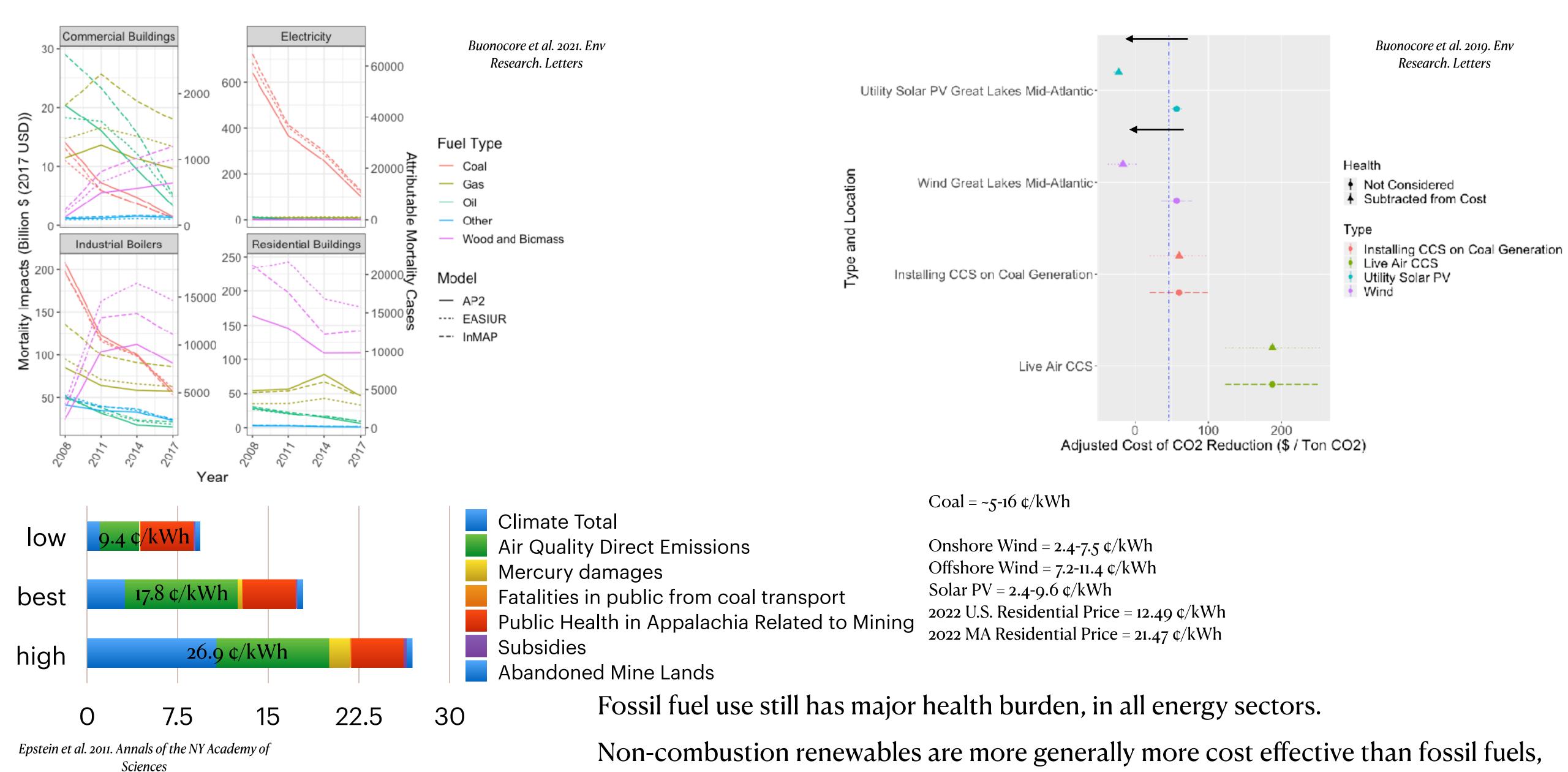
• 7 million premature deaths due to air pollution (likely underestimated)

 About 75% of all greenhouse gas emissions

Energy is a major contributor to environmental justice
(EJ) issues



Plenty of useful evidence... that is not used in decision making



biofuels, or carbon capture when health and climate is priced in.

No real bridge from energy to public health and environmental justice

Public Health and Environmental Justice Research Tools

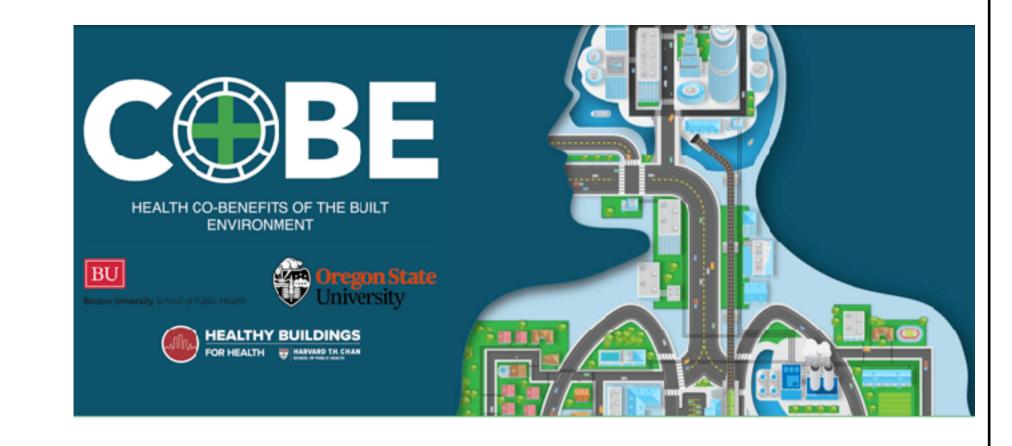
- Rapidly growing research community
- Easy to use air quality and health impact assessment methods
- Metrics for equity and environmental justice
- Methods to monetize impacts on climate and health
- Integrated benefit-cost assessment to calculate SROI
- Research to integrate this into decision making for investors, building owners and operators, utilities, policymakers...

CACES



Center for Air, Climate, & Energy Solutions

https://www.caces.us/



https://cobe.forhealth.org/

Mechanisms to use these tools in energy design and decision making

Current:

Tiny uptake in ESG investing

Possible ideas:

- Adding Health and Equity to Environmental Impact Assessment (EIA)?
- Permitting?
- Pricing mechanisms?
- Purchasing?
- Impact investing?
- Others?

Consequences

- Energy decisions have ambiguous relationship to health, some harming, some promoting
- Energy projects that harm health continue to be built
- Reactive approach to decision making when something goes wrong
- Public health and environmental justice continue to be inadvertently harmed by energy infrastructure
- Policy, legal, political issues result

Benefits

- Energy decisions are made with health and equity at their core
- Energy projects that promote health are built
- Energy system intentionally designed to support health and can cooperate when things go wrong
- Public health and environmental justice communities benefit from energy infrastructure
- Fewer policy, legal, and political issues

Regarding Grid Modernization, to achieve Greater Boston's climate, health and equity goals, a critical obstacle to collectively overcome in 12 months is: the absence of public health and equity as a design, evaluation, and decision making criteria for all energy projects.