

# Regional Carbon Pricing as Leakage Mitigation for Subregional Carbon Pricing

October 27, 2020



# Overview of Concept

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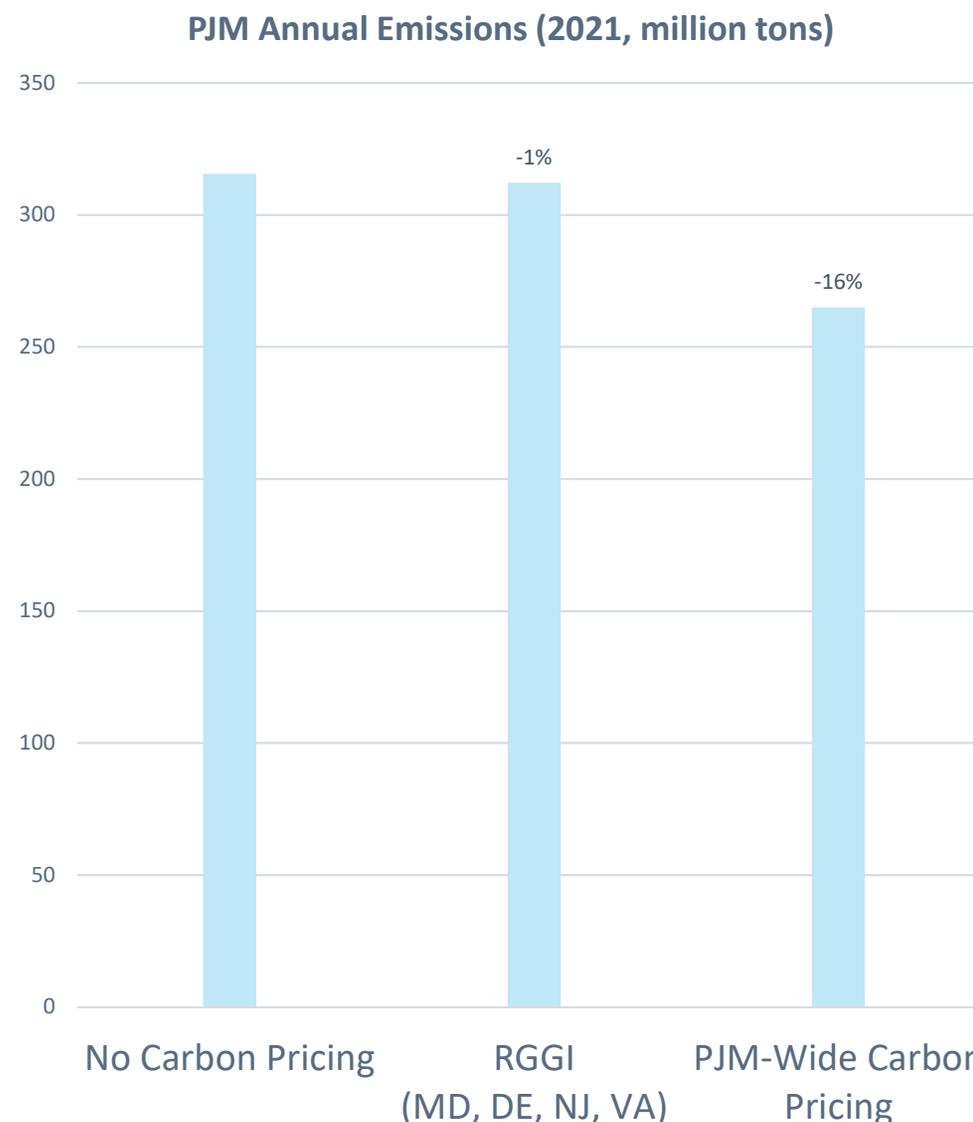


- We think that leakage would ideally be addressed by mimicking regional carbon pricing, rather than through subregional border adjustments.
  - To do so, all generators would have an emission-based compliance cost; if they don't actually face the cost then the design isn't incentive-compatible (resources will just adjust their offers to get around it).
    - This results in a pool of Non-RGGI generator compliance payments.
- Our goal would be to insulate Non-RGGI states from the impacts.
  - What does that entail? Today, we focus on consumer costs:
    - Increased energy market costs, and
    - Decreased ZEC payments. Nuclear revenues will increase under this structure, so ZEC payments should decrease.

# Subregional vs Regional Carbon Pricing

- Leakage impedes subregional carbon pricing from achieving meaningful emissions reductions.
- Regional carbon pricing would achieve significant emissions reductions at the same carbon price.

\*All modeling results in this presentation are preliminary findings based on analysis conducted by PA Consulting.



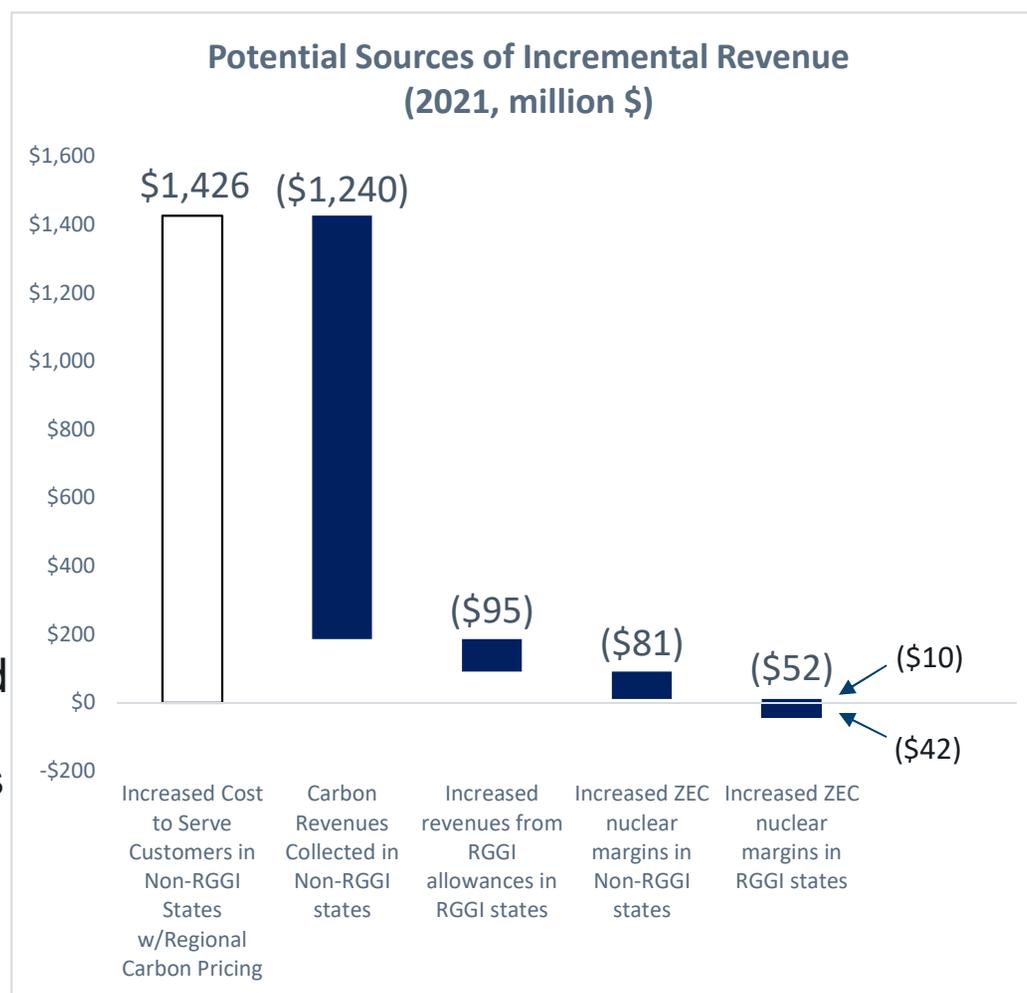
# How Do We Get There?

- Regional Carbon Pricing would raise LMPs, including for customers in states that haven't chosen to do carbon pricing.
- Does Regional Carbon Pricing create value elsewhere that could cover these costs?



# Could this be Self Funding?

- Non-RGGI states would accumulate their own pool of compliance revenues.
- Regional Carbon Pricing would shift some generation back to RGGI states, and thus increase RGGI allowance revenues.
- Nuclear resources receiving ZECs in both RGGI (NJ) and Non-RGGI states (OH, IL) would see increased competitive market revenue, and thus states could decrease ZEC payments.



**Yes, Incremental Revenues Can Cover Increased Costs to Non-RGGI Customers**

# Is this a Good Use of Incremental Funds?



Is it a good use of these incremental funds for RGGI states to help cover the increased costs to customers in Non-RGGI states?

\$105 million from RGGI states would make Non-RGGI states whole.

PJM-wide carbon pricing reduces CO<sub>2</sub> by 47 million tons.

**RGGI states have the opportunity to enable very cost-effective carbon emission reductions.**

\$105 million → **\$2.25/ton**

47 million tons