



PennState

Center for Energy
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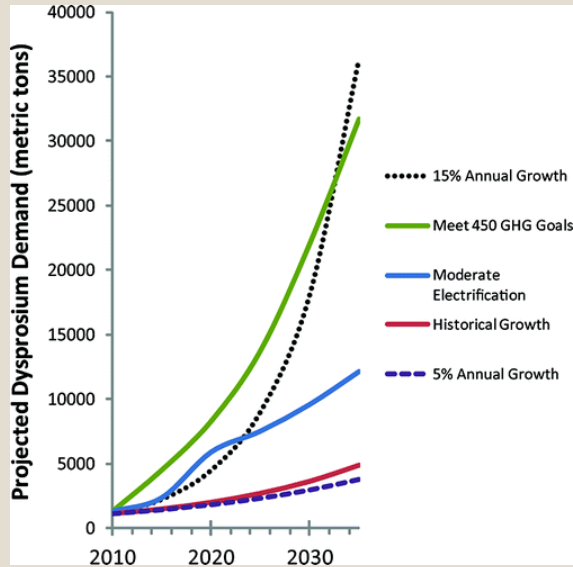
The Policy Environment for Critical Minerals in Appalachia

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State University

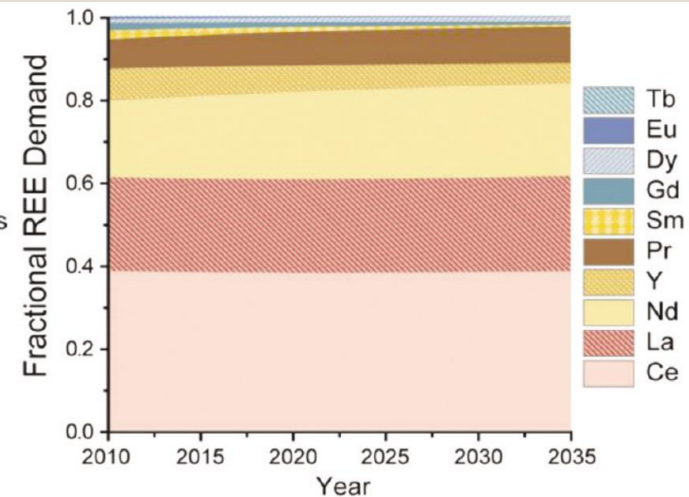
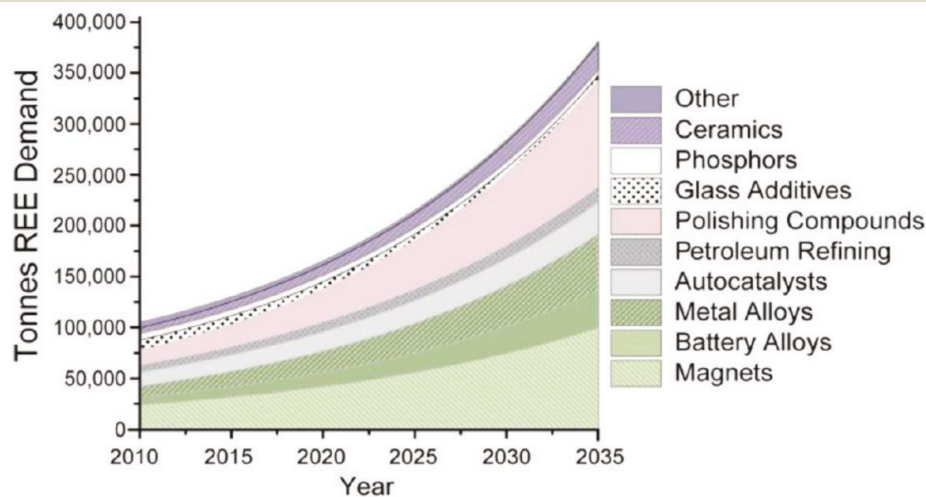
17 December 2020

New Tech Demands Minerals

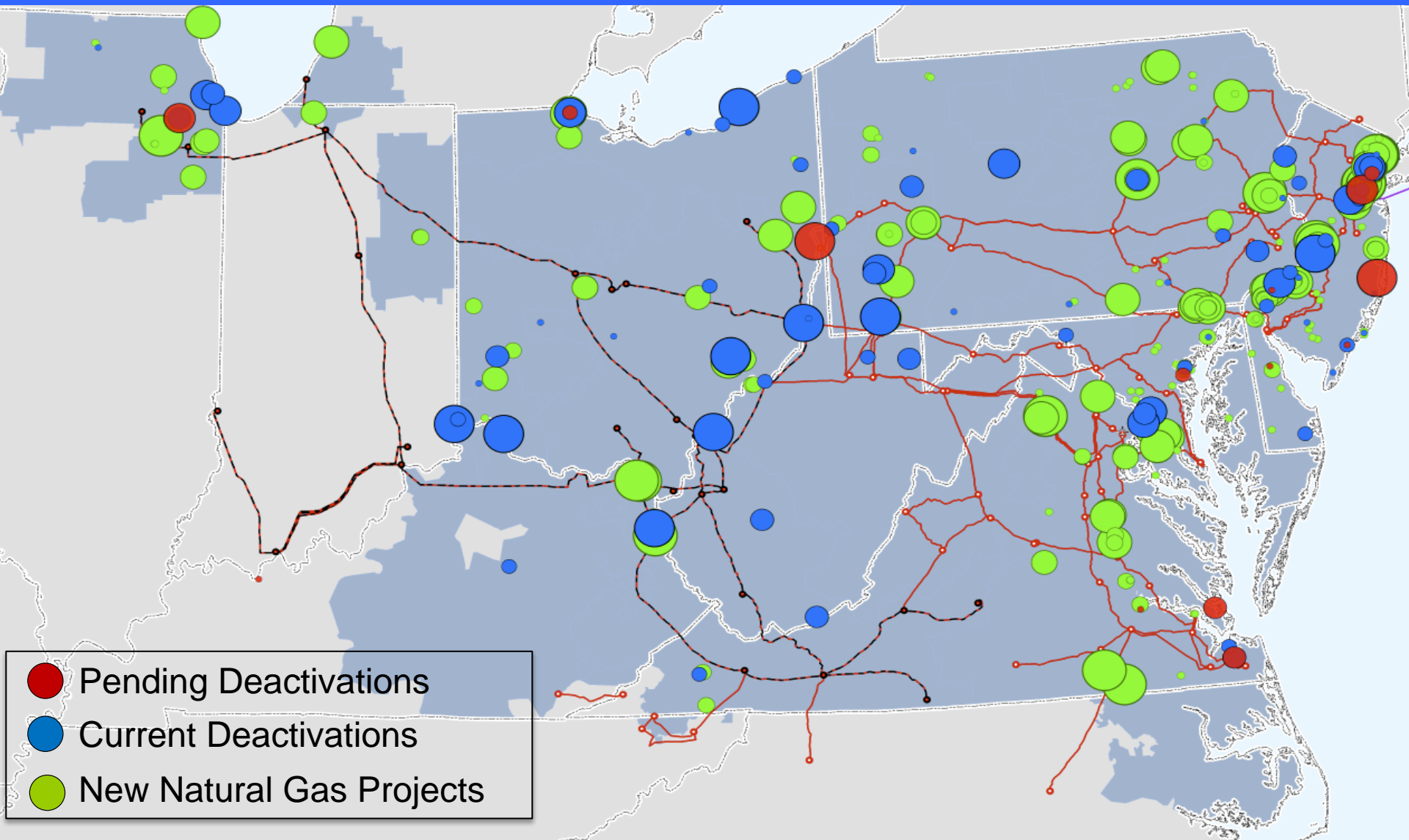


“American industry will be faced not only with a lack of raw materials at home, but also with the difficulty of obtaining supplies abroad.”

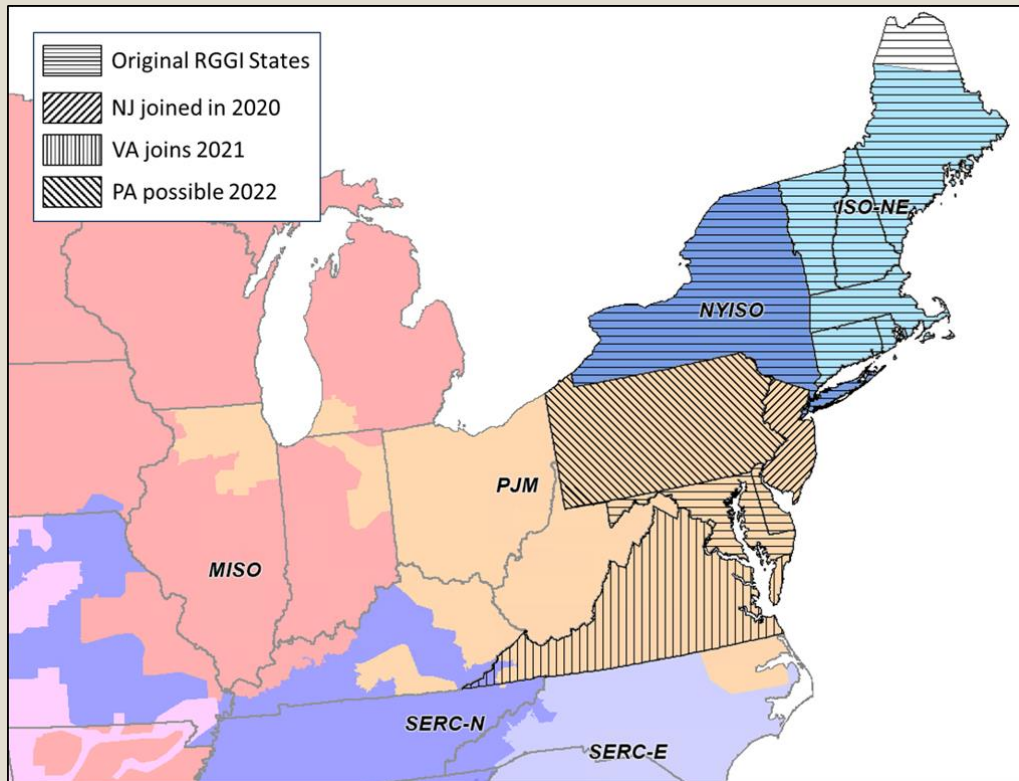
-Edward Steidle, 1952



Energy Sector Drivers



Energy Sector Drivers



- Pennsylvania is poised to join the Regional Greenhouse Gas Initiative (RGGI) in 2022.
- This would likely hasten coal generation decline in PA (but might prop it up in other Appalachian states)

Regional Environmental Challenges



Solutions for Innovation and Economic Development

The Pennsylvania State University
Center for Critical Minerals

Final Report on

**Availability and Estimate of Resources of Cobalt in
Pennsylvania**

PREPARED FOR

LEONARDO TECHNOLOGIES, INC. (LTI) OF BANNOCK, OH

(UNDER THE US DEPARTMENT OF ENERGY'S (DOE) AGREEMENT NUMBER DE- FE0022594)

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<https://www.c2m.psu.edu/>

- Appalachian States continue to look for post-coal development opportunities (COVID-19 has exacerbated this need)
- Extraction of critical materials from Appalachian industrial wastes is a major innovation opportunity that can harness local skills from legacy industries.
- Supporting this opportunity will require *deliberate decisions!*

Thank You!

Seth Blumsack

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