

Session FF - 52nd Anniversary of the Clean Air Act of 1970 and 32nd Anniversary of the Clean Air Act Amendments of 1990 ... What's on the Horizon for Business in America's Heartland?







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Workshop Overview

- **▶**Format
 - Short introduction to each topic
 - Questions and answers
- ▶ Planned Topics
 - Good neighbor provisions for 2015 Ozone NAAQS
 - Post-pandemic capital spending
 - Startup, shutdown, and malfunction (SSM) SIP call



Good Neighbor/Interstate Transport Provisions

- ► Emissions of SO₂, NO_X, & PM_{2.5} can travel long distances thereby affecting air quality in downwind states
- ► Clean Air Act (CAA) Section 110(a)(2) "good neighbor" provision requires EPA and states to address interstate transport that affects downwind states' ability to comply with the NAAQS
 - \bullet Federal rules enacted under provision include NO $_{\rm X}$ Budget Trading Program and CAIR/CSAPR
 - States can file CAA Section 126(b) petition for EPA to enact additional rules to meet good neighbor provision



Good Neighbor Provisions for the 2015 Ozone NAAQS

- ► EPA has found that NO_X emissions from 26 upwind states is significantly contributing to downwind nonattainment or interfering with maintenance of 2015 ozone NAAQS (70 ppb, 8-hr avg.)
 - Includes KY, IN, and OH
- ► Rule signed by EPA Administrator Regan on 2/28/2022 (not yet published in Federal Register)
- ▶ Will amend CSAPR rules in 40 CFR 97
- ► Federal implementation plan (FIP) includes:
 - Reduced ozone season NO_X budgets for electric generating units (EGUs) beginning in 2023
 - NO_X emission limits for certain non-EGUs beginning in 2026
 - States can submit their own SIPs

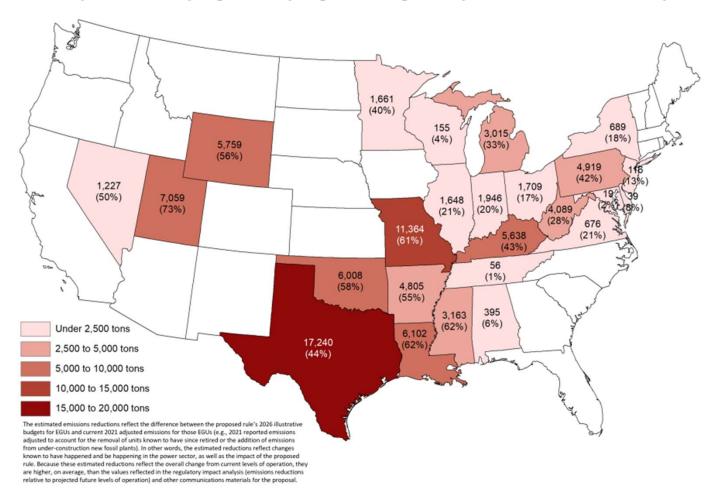


What Non-EGUs are Covered & What are Limits?

Source Type/Applicability		NO _X Limits
Gas-fired IC Engines ≥ 1,000 hp transportation of natural gas	used for pipeline	4-stroke rich burn – 1.0 g/hp-hr 4-stroke lean burn – 1.5 g/hp-hr 2-stroke lean burn – 3.0 g/hp-hr
Cement kilns with potential NO ≥ 100 tpy	_x emissions	2.3-4.0 lb/ton clinker depending on kiln type along with equation based daily cap for all kilns at single source/plant
Iron/Steel/Ferroalloy units wit emissions ≥ 100 tpy and to facil 2 or more such units that collect NO _X emissions ≥ 100 tpy – inclu preheaters, degassers, kilns, co	lities containing ctively have potential des furnaces,	Varies by unit type; examples include: EAF - 0.15 lb/ton steel Annealing furnace - 0.06 lb/MMBtu Coke ovens - 0.15 lb/ton coal charged & 0.015 lb/ton coal pushed Boilers - 0.08-0.20 lb/MMBtu based on fuel type
Glass furnaces with potential N ≥ 100 tpy	IO _x emissions	Container/pressed/blown glass & fiberglass furnaces – 4.0 lb/ton glass produced Flat glass furnace – 9.2 lb/ton glass produced
Industrial boilers ≥ 100 MMBtu/ NAICS 3251 (chemical), 3241 (per & 3221 (pulp & paper)		0.08-0.20 lb/MMBtu based on fuel type

EGU Reductions in 2026 Relative to 2021

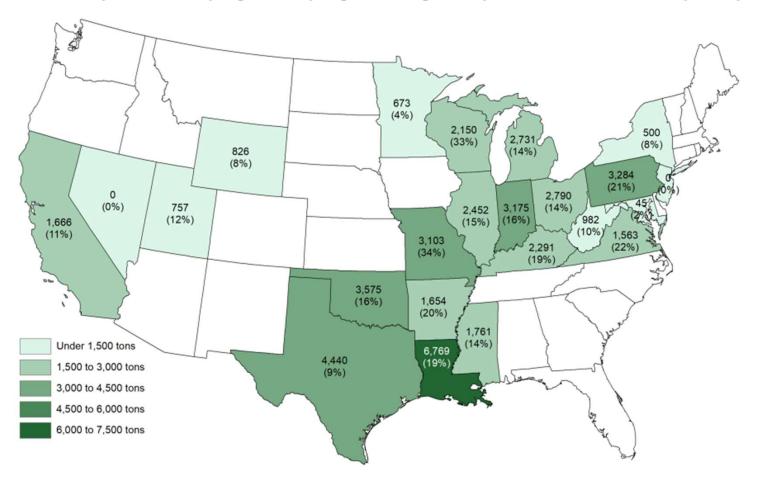
(from https://www.epa.gov/csapr/good-neighbor-plan-2015-ozone-naaqs#maps)





Non-EGU Reductions in 2026 Relative to Pre-Proposal Levels

(from https://www.epa.gov/csapr/good-neighbor-plan-2015-ozone-naaqs#maps)

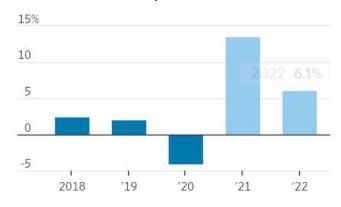




Surge in Post-Pandemic Capital Spending

- ► COVID pandemic caused many companies to stockpile cash due to economic uncertainties
- ► Starting in 2021 and continuing in 2022, companies looking to use that cash to fund capital projects
 - Companies in S&P500 allocated \$528.4 billion toward capital projects in 2021Q1-Q3; >13% increase over CY2021 (WSJ, 1/10/2022)
 - Another >6% increase expected in CY2022 (WSJ, 1/10/2022)
- ► What impacts will this have on IDEM, KYDEP, and Ohio EPA?

Year-to-year change in capital expenditures at nonfinancial companies



Note: Data includes 2,000 companies globally with the largest capital expenditures in U.S.-dollar terms. Figures for 2021 and 2022 are forecasts. Source: S&P Global Ratings



Large Capital Projects in the Midwest

- ► Intel 1/2022 announcement to build \$20 billion microchip factory in central OH; largest private-sector investment in OH history
- ► Nucor 1/2022 announcement to build \$2.7 billion steel mill in WV; largest single investment in WV and Nucor history; follows \$1.7 billion mill in KY that is scheduled to begin operations in 2022
- ► Sazerac 12/2021 announcement to build \$409 million bottling plant in southern IN
- ► Ford 9/2021 announcement to invest \$11.4 billion in electric vehicle/battery projects in KY and TN, single largest manufacturing investment in Ford's 118-year history
- ► CANPACK 6/2021 announcement to build \$380 million aluminum beverage can production plant in Muncie, IN
- ► GM 4/2021 announcement to invest \$27 billion by 2025 to support electric vehicle production; includes sites in MI, OH, and TN



SSM SIP Call

- ► SIP call to address alleged deficiencies in state rules in that they "excuse" excess emissions that occur during SSM events
 - Covered 36 states, included KY, IN, & OH
- ▶ Timeline
 - 6/12/2015 SIP call w/ 11/22/2016 due date for SIP submittal; includes SSM policy
 - 10/9/2020 EPA revises SSM policy to allow certain SSM exemptions, plan to review 2015 SIP call
 - 9/30/2021 EPA withdraws 10/2020 policy revision
 - 1/12/2022 EPA issues notice that 12 states, including OH, failed to submit SIP revision under 2015 SIP call
 - 18 months to revise SIP and avoid mandatory sanctions (i.e., 2:1 offsets & restriction on federal highway funding in nonattainment areas)



Questions & Discussion

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