



EPA Workshop for Environmental Justice Communities

November 4 - 5, 2015



State Plans



Clean Power Plan Timeline





Two State Plans Designs

- States are able to choose one of two state plan types:

Emission Standards Plan – state places federally enforceable emission standards on affected electric generating units (EGUs) that fully meet the emission guidelines

- can be designed to meet the CO₂ emission performance rates or state goal (rate-based or mass-based goal)

State Measures Plan - state includes, at least in part, measures implemented by the state that are not included as federally enforceable emission standards

- must achieve the state CO₂ mass-based goal for emissions from the affected EGUs
- includes federally enforceable measures as a backstop



State Plan Development

- Many states are discussing plans that would enable them to collaborate with other states, including multi-state plans or linking plans through common administrative provisions (i.e. “trading ready”)

- In the CPP, EPA is finalizing state plan designs that suit state needs
 - Pathways for existing programs to reduce carbon emissions, individual state plans and multi-state trading approaches

- EPA is proposing model trading programs a state may implement, or EPA would implement as a federal plan
 - Invites comment on mass and rate based model trading programs for EGUs
 - Invites comment on idea that all types of state plans can participate in trading



Two Broad Categories of State Plans

- Mass-based
- Rate-based



Many CO₂ Reduction Opportunities

- Heat rate improvements
- Fuel switching to a lower carbon content fuel
- Integration of renewable energy into EGU operations
- Combined heat and power
- Qualified biomass co-firing and repowering
- Renewable energy (new & capacity uprates)
 - Wind, solar, hydro
- Nuclear generation (new & capacity uprates)
- Demand-side energy efficiency programs and policies
- Demand-side management measures
- Electricity transmission and distribution improvements
- Carbon capture and utilization for existing sources
- Carbon capture and sequestration for existing sources



CPP: Plan Implementation Timeline

Submittals	Dates
State Plan OR initial submittal with extension request	September 6, 2016
Progress Update, for states with extensions	September 6, 2017
State Plan, for states with extensions	September 6, 2018
Milestone (Status) Report	July 1, 2021

Interim and Final Goal Periods ¹	Reporting
Interim goal performance period (2022-2029) ²	
- Interim Step 1 Period (2022-2024) ³	July 1, 2025
- Interim Step 2 Period (2025-2027) ⁴	July 1, 2028
- Interim Step 3 Period (2028-2029) ⁵	July 1, 2030
Interim Goal (2022-2029) ⁶	July 1, 2030
Final Goal (2030)	July 1, 2032 and every 2 years beyond

¹ State may choose to award early action credits (ERCs) or allowances in 2020-2021, and the EPA may provide matching ERCs or allowances, through the Clean Energy Incentive Program. See section VIII.B of the final rule preamble for more information.

² The performance rates are phased in over the 2022-2029 interim period, which leads to a glide path of reductions that “steps down” over time. States may elect to set their own milestones for Interim Step periods 1, 2, and 3 as long as they meet the interim and final goals articulated in the emission guidelines.

^{3 4 5} State required to compare EGU emission levels with the interim steps set forth in the state’s plan. For 2022-2024, state must demonstrate it has met its interim step 1 period milestone, on average, over the three years of the period. For 2025-2027, state must demonstrate it has met its interim step 2 period milestone, on average, over the three years of the period. For 2028-2029, state must demonstrate it has met its interim step 3 period milestone, on average, over the two years of the period. See section VIII.B of the final rule preamble for more information.

⁶ State required to compare EGU emission levels with the interim goal set forth in the state’s plan. For 2022-2029, state must demonstrate it has met its interim goal, on average, over the eight years of the period.



Information and Resources

How can I learn more?

After two years of unprecedented outreach, the EPA remains committed to engaging with all stakeholders as states implement the final Clean Power Plan

- For more information and to access a copy of the rule, visit the **Clean Power Plan website**: <http://www2.epa.gov/carbon-pollution-standards>
- Through graphics and interactive maps, the **Story Map** presents key information about the final Clean Power Plan. See: <http://www2.epa.gov/cleanpowerplan>
- For community-specific information and engagement opportunities, see the **Community Portal**:
- For additional resources to help states develop plans, visit the **CPP Toolbox for States**: <http://www2.epa.gov/cleanpowerplantoolbox>
- For a graphical and detailed walk through of the EGU category-specific CO₂ emission performance rate and state goals, see **State Goal Visualizer**: <http://www2.epa.gov/cleanpowerplantoolbox>
- EPA provides **webinars** and **training** on CPP related topics at the air pollution control learning website. See: <http://www.apti-learn.net/lms/cpp/plan/>



EPA Region 6 State Plan Progress



Region 6 States CPP Websites

- Several Region 6 States have websites on the CPP
 - AR:
 - <https://www.adeq.state.ar.us/air/planning/cpp/>
 - <https://www.adeq.state.ar.us/air/planning/cpp/materials.aspx>
 - NM:
 - <https://www.env.nm.gov/aqb/CPP.htm>
 - OK:
 - <http://www.deq.state.ok.us/aqdnew/RulesAndPlanning/cleanpower111d/index.htm>

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Carbon Emission Standards for the Power Sector: Workgroup Information Page

Hosted by the ADEQ and the Arkansas Public Service
Commission (APSC)

On August 3, 2015, the US Environmental Protection Agency (EPA) released final rules for the New Source Performance Standards (NSPS) for new power plants as well as carbon dioxide emission standards for existing power plants—commonly referred to as the Clean Power Plan. EPA also proposed model plans as well as a federal plan that would be implemented if a state or states fail to submit an approvable State plan to comply with the carbon emission standards for existing power plants. EPA will be taking comments on both the proposed federal plan and the proposed model plans for a period of 90 days after

[Clean Power Plan
Workgroup Contacts](#)

[Questions or Comments?](#)

Upcoming Meetings & Deadlines

Please check this page for updates, [subscribe](#) to the email list, or [unsubscribe](#).

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Stakeholder Meeting
(to be announced)

Commission Room, first
floor
5301 Northshore Drive
North Little Rock

[Meeting Agenda](#)



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Clean Power Plan



Under Section 111(d) of the Clean Air Act

NEW On August 3, 2015, the U.S. EPA released the final Clean Power Plan (CPP) final rule to regulate carbon dioxide (CO₂) emissions from existing fossil fuel-fired electric generators. EPA promulgated the final rule after considering millions of stakeholder comments. NMED Air Quality Bureau staff are currently reviewing the rule and accompanying technical support documents in order to conduct appropriate stakeholder outreach in the coming months. To find documents related to the Clean Power Plan, visit [EPA's web site](#).

EPA had proposed the Clean Power Plan rule under Section 111(d) of the Clean Air Act on June 2, 2014. The proposed rule was open for comment until December 1, 2014.

[NMED Comments to EPA](#)



Clean Power 111(d) Plan

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Federal Clean Power Plan & Oklahoma's §111(d) Plan

The Air Quality Division, in cooperation with the Oklahoma Secretary of Energy & Environment and the [Oklahoma Corporation Commission](#), is working to involve the public, state electrical utilities, and other stakeholders during the development process under EPA's [Clean Power Plan](#).

What Greenhouse Gas Standards has EPA Proposed?

For New Power Plants: On January 8, 2014, the U.S. EPA published proposed New Source Performance Standards (NSPS) under §111(b) of the Clean Air Act (CAA) for new fossil-fuel fired power plants (i.e., units constructed after the proposal date), which would set carbon pollution limits for individual units in terms of pounds of Carbon Dioxide per megawatt-hour or lbs CO₂/MWh. ([79 FR 1429](#)) The comment period for this proposal closed on May 9, 2014. [Note that EPA also withdrew their previous (March 2012) NSPS proposal.] EPA is evaluating the comments received, and has indicated that the NSPS will be finalized in early 2015. DEQ submitted comments on the proposal on May 9, 2014.

For Existing Power Plants: On June 2, 2014, EPA proposed emissions guidelines under CAA §111(d) to reduce carbon pollution (also in terms of lbs CO₂/MWh) from existing power plants. ([79 FR 34728](#)) The comment period for this proposal closed on December 1, 2014. EPA has indicated that it will evaluate the comments received, and finalize a rule in June 2015. DEQ submitted [comments](#) on the proposal on December 1, 2014. On June 2, 2014, EPA also announced proposed standards for modified or



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Clean Power 111(d) Plan

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Region 6 CPP Team

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State Engagement Example Minnesota Pollution Control Agency

MPCA Clean Power Plan Meetings: 2015

- Stakeholder “Kickoff” Meeting February 20th to explore state’s objectives in developing a 111(d) plan.
- Webinar March 12th on Rate vs. Mass
- Meeting March 18th on Policy Pathways
- Webinar April 15th with Midcontinent Independent System Operator (MISO)
- Meeting April 29th on Trading Ready Approaches

MPCA Clean Power Plan Meetings: 2015

- Webinar May 18th on Tracking
- Meeting June 26th on Differentiating Rates and Allocating Allowances
- Meeting July 17th on Interactions with Wholesale Markets
- Webinar September 17th Reviewing Final Model Rule and Model Rules
- Meeting October 8th gathering reactions to the final CPP and proposed model rules

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Minnesota Pollution Control Agency

State Rulemaking: Request for Comment

On August 3, 2015, the MPCA published a “request for comment” on possible rules for compliance with the Clean Power Plan

- Initial step of state rulemaking process
- Signaled consideration of possible rules, not a particular direction of rulemaking
- Seeks input on objectives for a state plan and potential considerations of methods for meeting state targets
- Comment period remains open

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Minnesota Pollution Control Agency

Engagement plans

- ▣ Initial outreach
- ▣ General stakeholder meetings
- ▣ Community events
- ▣ Updates at regularly-scheduled meetings
- ▣ Equity analysis
- ▣ Availability for meetings
- ▣ Open door policy

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Minnesota Pollution Control Agency