



Clean Power Plan: Development of Colorado's State 111(d) Plan

All Stakeholder Meeting Agenda

Friday, September 25, 2015
1:30-5:00* (CDPHE's Sabin-Cleere Room)

MEETING DETAILS - *due to space limitations, preference will be given to those pre-registered for this meeting*

For materials from this meeting or information on future meetings:

- visit <https://www.colorado.gov/cdphe/CleanPowerPlan> or
- submit questions or comments to cdphe.commentsapcd@state.co.us

PURPOSE

1. Introduce the process for developing Colorado's State 111(d) Plan in response to EPA's Clean Power Plan.
2. Solicit and listen to stakeholder comments related to Colorado's implementation of EPA's Clean Power Plan. Note that this meeting is largely a listening session where CDPHE will be taking comments for the majority of this meeting.

DESIRED OUTCOMES

By 5:00 today,

- A. Clearly understand CDPHE's process for developing Colorado's State 111(d) Plan so that stakeholders know when and how to engage in the process.
- B. Understand the key decision points in the plan development process.
- C. Receive public comment on the development of Colorado's State 111(d) Plan that meets EPA's Clean Power Plan requirements.

AGENDA

1. Start up (10 min): agenda review, ground rules, today's public comment process, and announcements.
2. Introductory Remarks (10 min): welcome and introduction.
3. Presentation (40 min): Clean Power Plan highlights and process for developing Colorado's State 111(d) Plan.
4. Break (10 min)
5. Public Comment (60 min): pre-registered in-person attendees will have 2 minutes each, to provide comment to CDPHE.
6. Break (10 min)
7. Public Comment (60 min): pre-registered in-person attendees will have 2 minutes each, to provide comment to CDPHE.
8. Meeting Wrap-Up (10 min): next steps on this process.

NEXT MEETING(S) - *watch website (@ above link) for details*

November 9, 2015 - Fort Lewis College, Durango, CO

CDPHE will accept limited 111(d) comments during a meeting of the Four Corners Air Quality Group.

December 2015 - Commerce City

CDPHE will hold a town hall meeting open to the public.

* Meeting duration has been extended to allow for additional public comment.



Clean Power Plan: Development of Colorado's 111(d) State Plan

Public Meeting #1: Sept. 25, 2015
CDPHE's Sabin Cleere Room

Chris Colclasure - Planning and Policy Program Manager
Air Pollution Control Division



COLORADO
Department of Public
Health & Environment

EPA's Clean Power Plan Suite of Rules

- Reduce CO₂ and other emissions from fossil fuel-fired Electric Generating Units (EGUs)
 - Large fossil fuel-fired boilers
 - Large fossil fuel-fired turbines
 - Steam generating units, and
 - Integrated gasification combined cycle (IGCC) units
- Components
 - New, Modified or Reconstructed EGUs (New Source Performance Standards)
 - Existing EGUs (Existing Source Performance Standards)
 - Federal Plan and Model Trading Rules (proposed)
- ESPS goal: Nationwide 32% reduction in CO₂ from 2005 levels by 2030



Colorado's Legislative Declaration



- *“climate change presents serious, diverse, and ongoing issues for the state's people, economy, and environment”*
- *“ensure that the state is apprised of the threats that climate change poses to Colorado”*
- *“[ensure] progress [is] made to mitigate and address those threats”*

Colorado's Initiatives

- Forward-thinking policies have lowered emissions and resulted in a reliable, diverse and affordable energy mix
 - Clean Air Clean Jobs
 - Renewable Energy Standard
 - Demand Side Management
 - Methane rules
 - Local and private action
 - 2015 Climate Plan
- Colorado is up to the challenge of 111(d)



COLORADO'S PRINCIPLES

- *Chart own course*
- *Maintain reliable, affordable electricity*
- *Satisfy demand growth*
- *Provide inclusive stakeholder process*
- *Collaborate among state agencies*

EPA'S CLEAN POWER PLAN

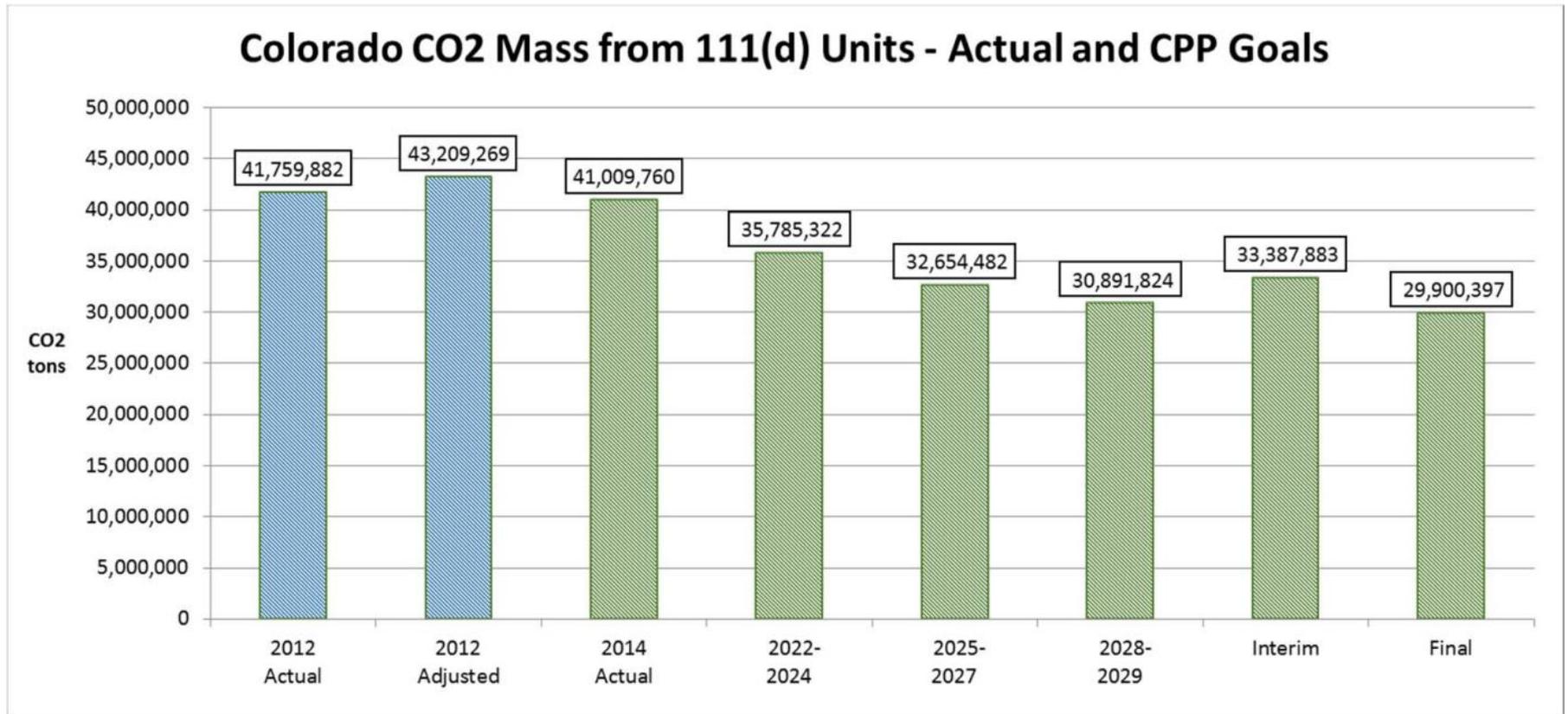


What Colorado Must Do

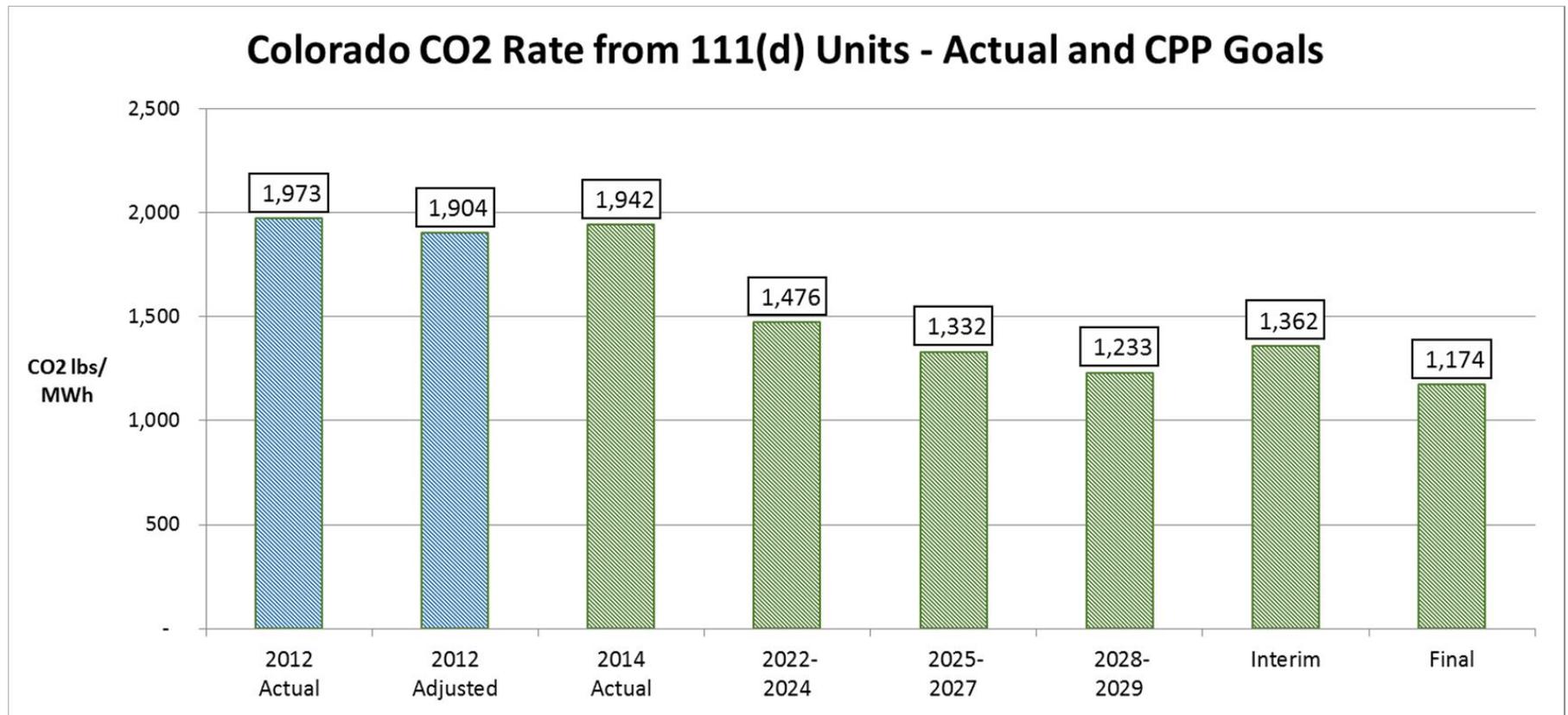


- Reduce CO₂ emissions by 2030 (from 2012 baseline)
 - by 38% on a rate basis, or
 - by 31% on a mass basis
 - Meet interim “step” goals (2-3 yr periods between 2022-2029)
- Adopt an approvable state plan or be subject to federal plan
- Provide initial submittal by 9/6/2016 and final plan by 9/6/2018

Colorado's CO2 Emissions (mass basis)



Colorado's CO2 Emissions (rate basis)



Colorado's Generation Mix

- Coal fired boilers



- Natural gas

- turbines
- engines

- Wind

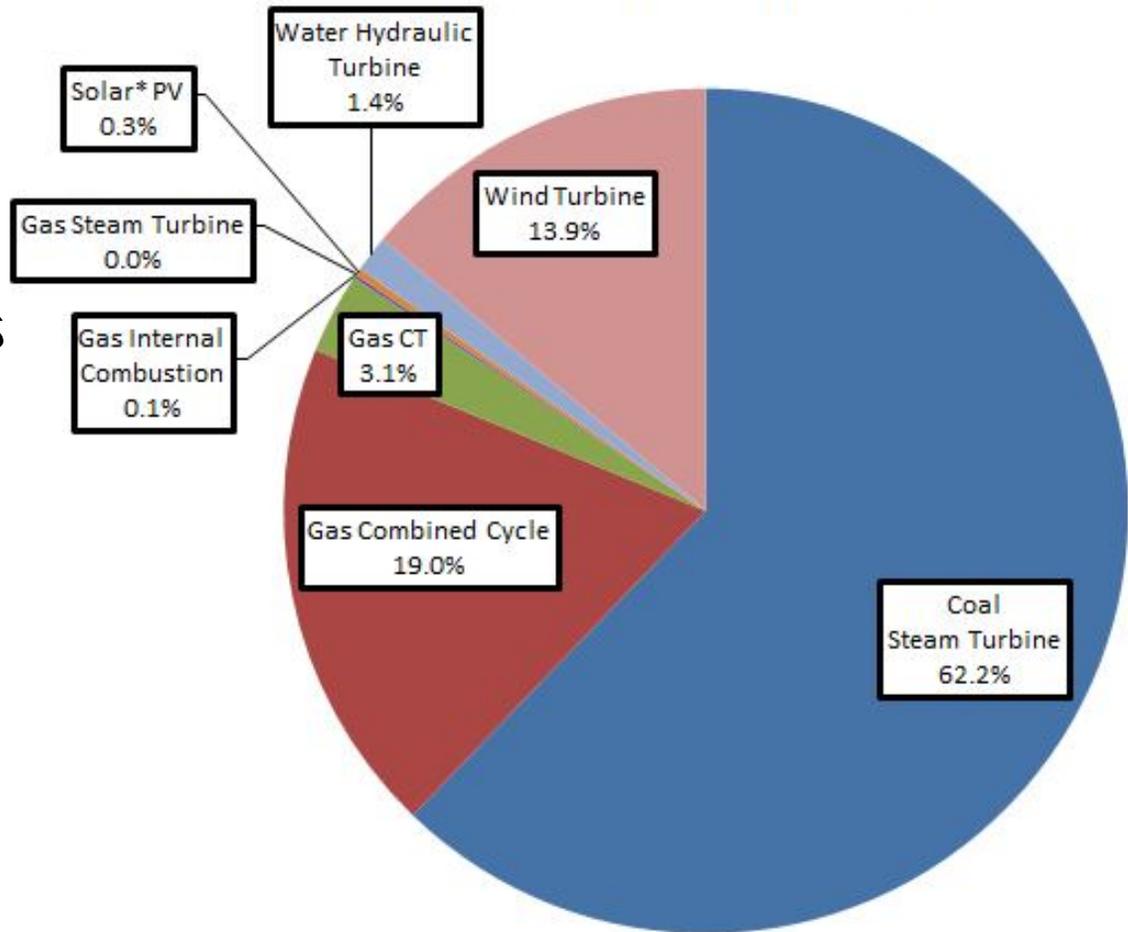


- Hydro

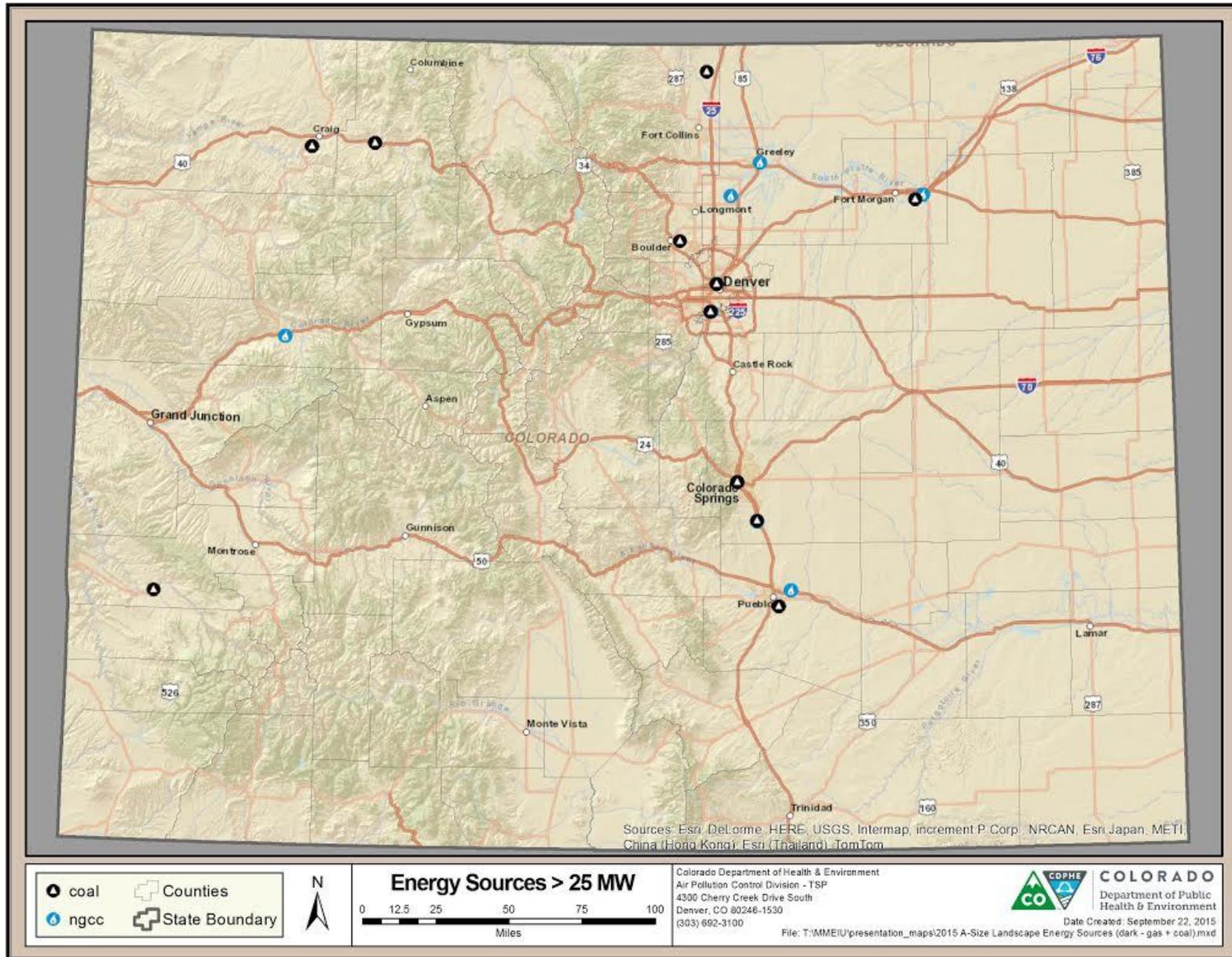
- Solar



Colorado Generating Plants - % of Total Generation (MWh) in 2014



Map of Colorado's EGUs



Potential Compliance Strategies

EPA's Building Blocks

- EGU efficiency (heat rate improvement)
- Redispatch to natural gas
- Redispatch to renewables



More Options

- Trading
- Energy efficiency/ demand side management (customers)
- Reduce transmission losses
- Others

Key Decisions



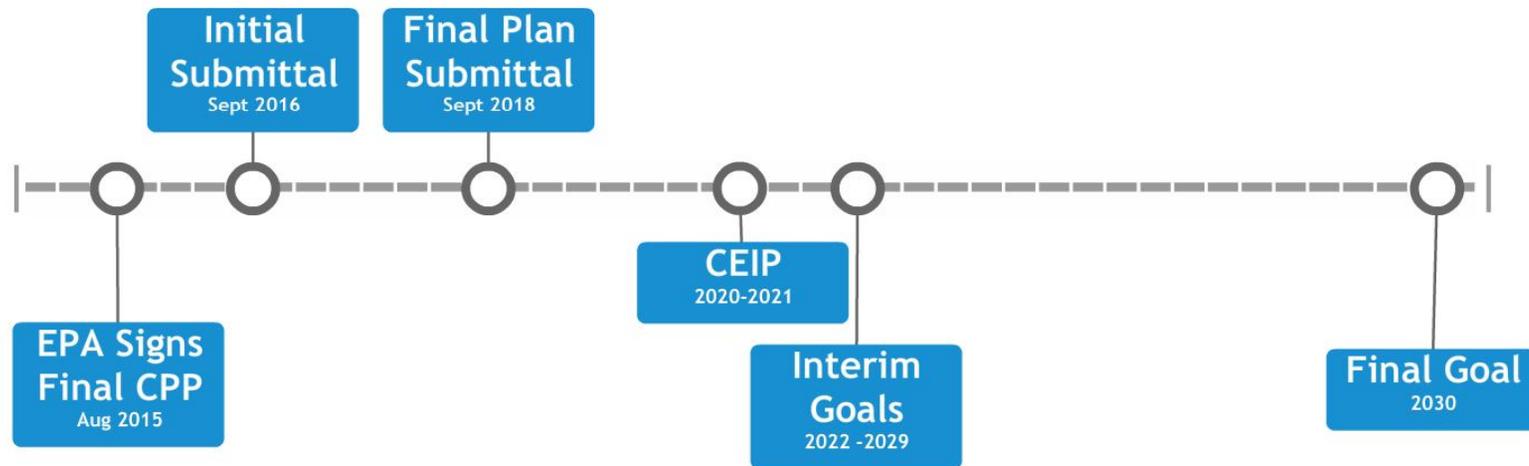
- Mass v. Rate
 - Allocation methodology
 - Emission Reduction Credit issuance
 - Set aside
- Trading
- Single state vs. multi-state approach
- Clean Energy Incentive Program
- Treatment of new sources
- Emission reduction options

CDPHE's Vision for Public Process



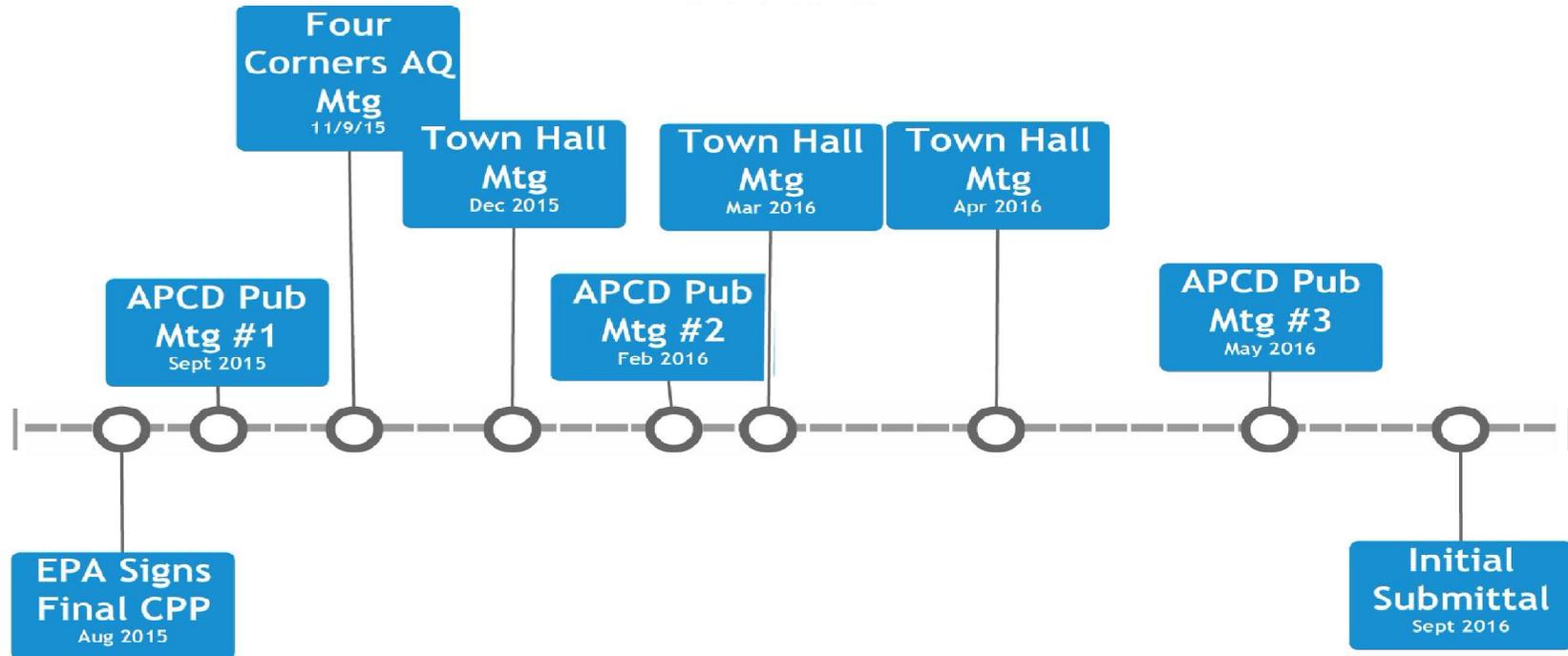
Clean Power Plan

TIMELINE



Colorado's Stakeholder Process

T I M E L I N E



Resources

- CDPHE website:
www.colorado.gov/cdphe/CleanPowerPlan
 - Sign up for e-mail notifications
 - Submit public comments:
cdphe.commentsapcd@state.co.us
 - Find information on Colorado's public meetings, any shared documents, and more
- EPA website: www2.epa.gov/cleanpowerplan
 - Find federal rules, technical support documents, tools and more



