

Clean Power Plan Stakeholder Meeting

Low-Income and Vulnerable Communities

Department of Ecology
January 27, 2015



Agenda for Today

- 2:00 - Welcome and Introductions
- 2:15 - Update on Washington's Clean Power Plan Development and Process
- 2:35 - Discussion on the CPP and Low-Income and Vulnerable Communities
- 4:15 – Wrap Up and Next Steps
- 4:30 - Adjourn

Major carbon reduction efforts at Ecology

Clean Power Plan

- EPA Requirement under the federal Clean Air Act
- Partnership with UTC and Commerce
- Electricity sector focus
- Final plan due Sept. 2018
- EPA limits less stringent; WA can use more stringent limits than set by EPA

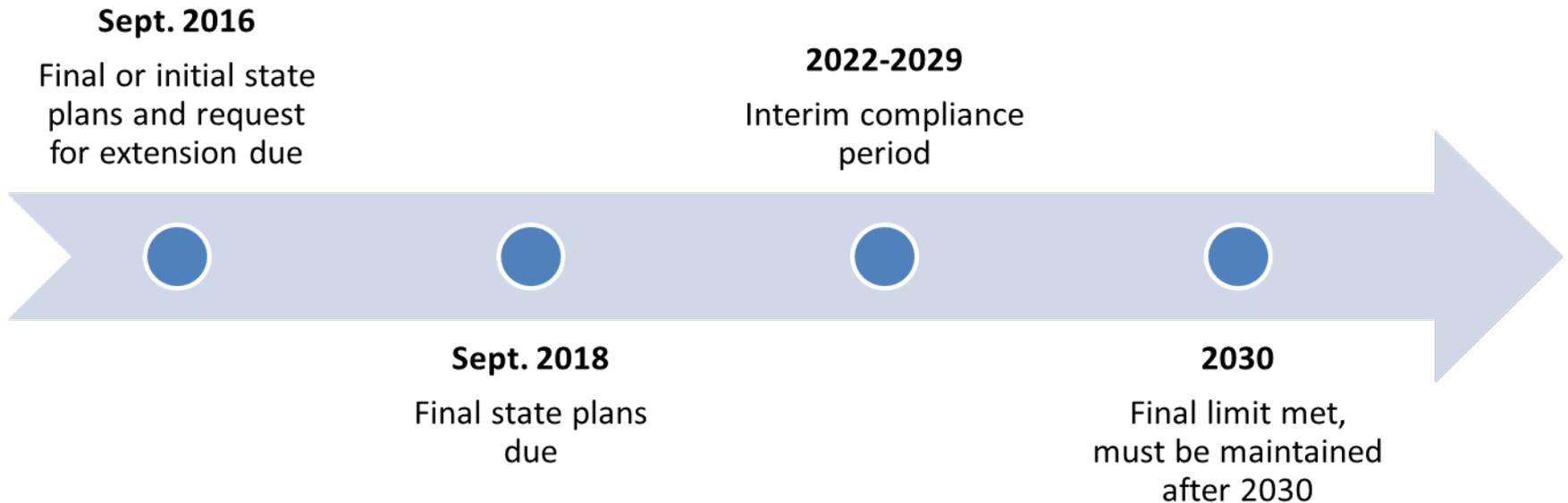
Clean Air Rule

- Directive from Governor Inslee
- Ecology rule to cap carbon emissions
- Economy-wide
- Final rule by summer 2016
- More stringent limits

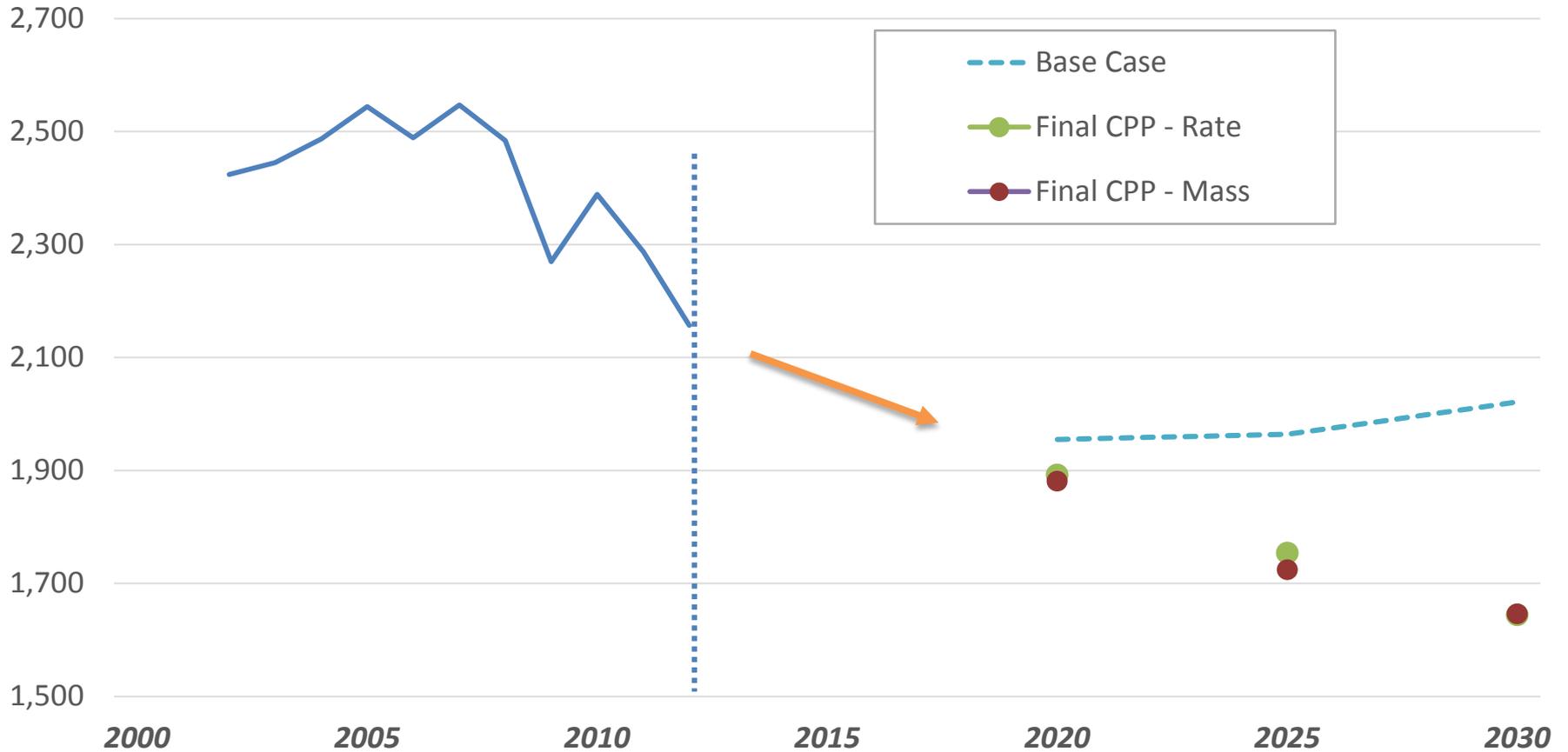


Clean Power Plan

- Final rule issued by EPA in August 2015
- Establishes state-specific CO₂ emission limits on existing coal and gas power plants
- States develop plans to achieve state limits



Nationwide 32% Reduction in Power Sector CO₂ Emissions



Source: EPA

Note: Historical data from EPA's GHG inventory, projections from IPM.



WA Affected Power Plants

Plant Name	Plant Owner
River Road Gen Plant	Clark County PUD
Grays Harbor Energy Facility	Invenergy
Chehalis Generating Facility	PacifiCorp
Encogen	Puget Sound Energy
Ferndale Generating Station	Puget Sound Energy
Frederickson Power LP	Puget Sound Energy
Goldendale Generating Station	Puget Sound Energy
Mint Farm Generating Station	Puget Sound Energy
Sumas Power Plant	Puget Sound Energy
March Point Cogeneration	Shell Puget Sound Refinery
Transalta Centralia Generation	TransAlta USA, Inc



Map by Geospatial and Environmental Systems Support
September 2014

Washington's state plan

Key decisions and options include:

CO2 Limits: Mass- or
rate-based

Emission standards
or state measures
plan

Single state, "Trading
ready" or multi-state
plan

Clean Energy
Incentive Program
(CEIP)

Crediting and trading
renewable energy
and energy
efficiency

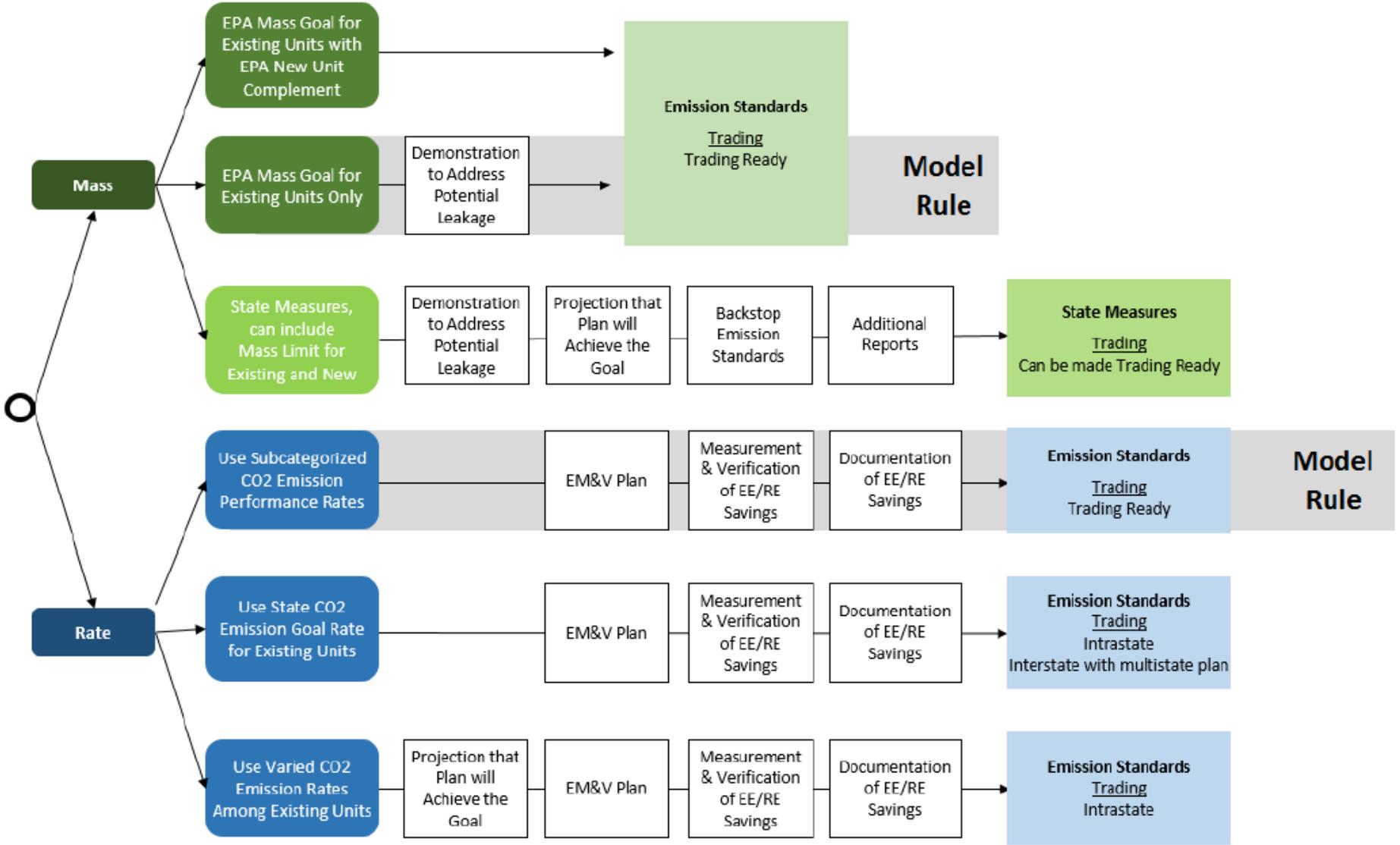
Alignment with CAR,
RPS, conservation,
and other state
policy objectives



State Plan Options

Type

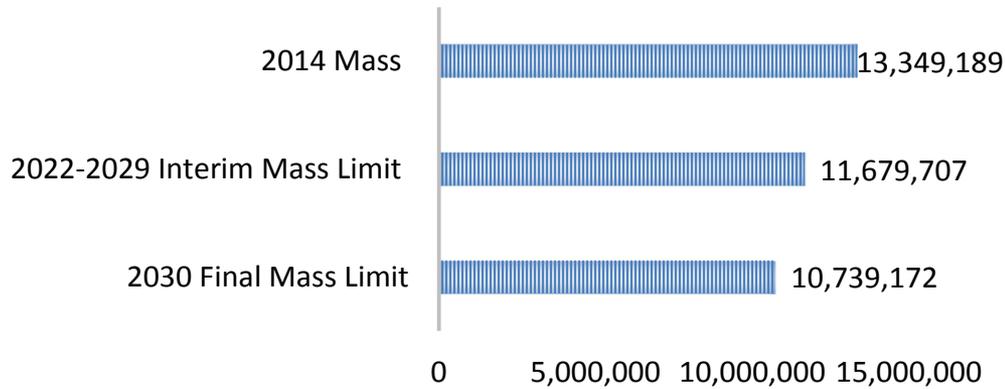
Requirements, Plan Type & Trading Options



Washington's CO₂ Limits

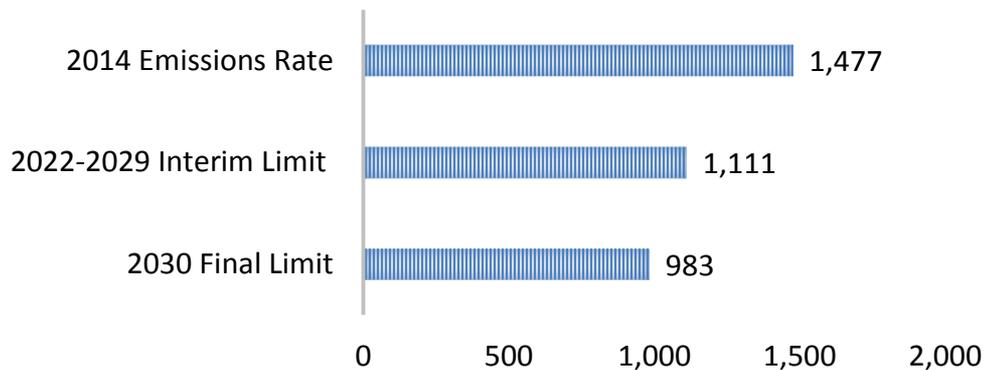
WA'S EMISSION REDUCTION (MASS)

IN SHORT TONS OF CO₂

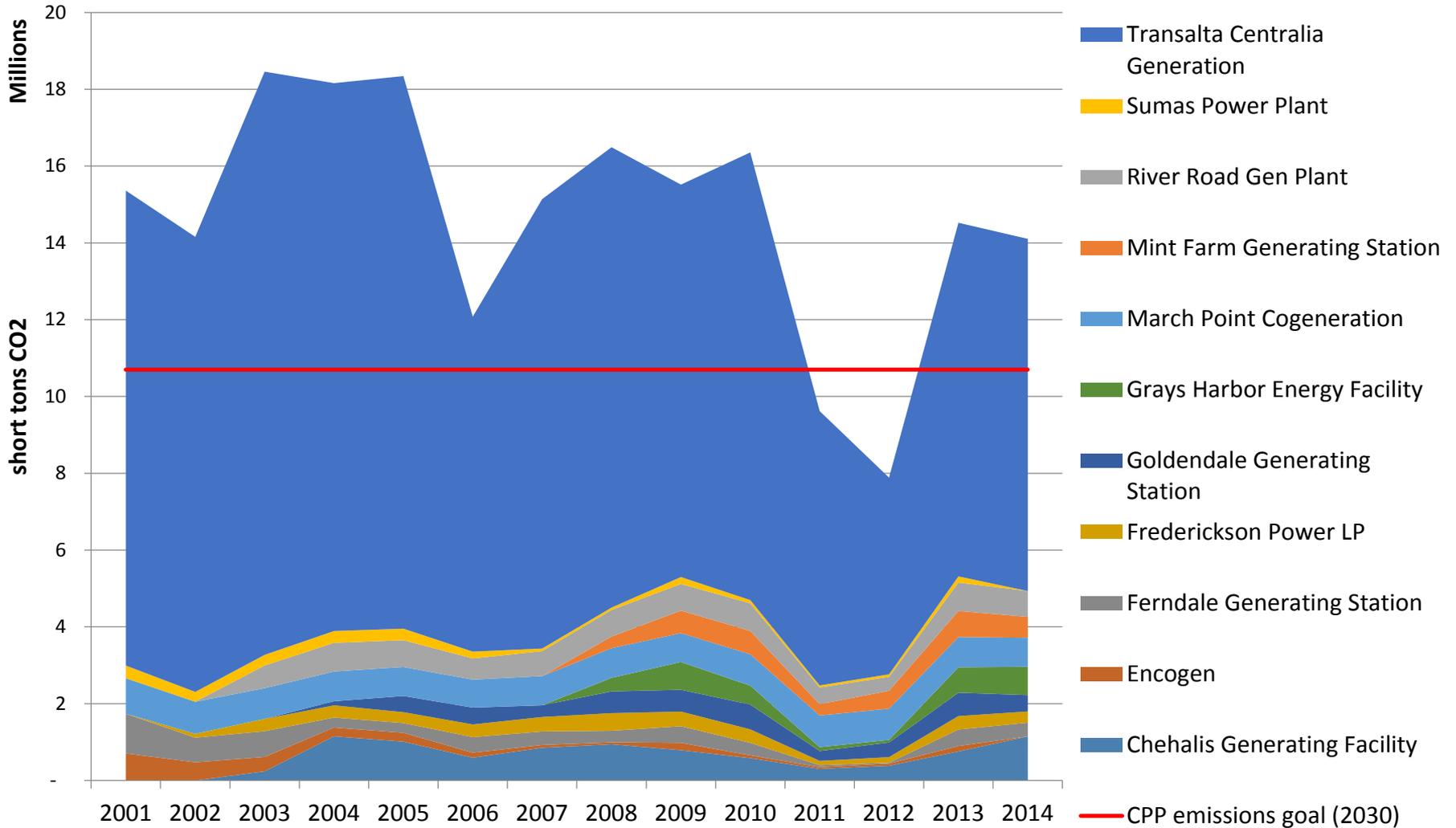


WA'S EMISSION REDUCTION (RATE)

IN POUNDS OF CO₂ PER MEGAWATT-HOUR



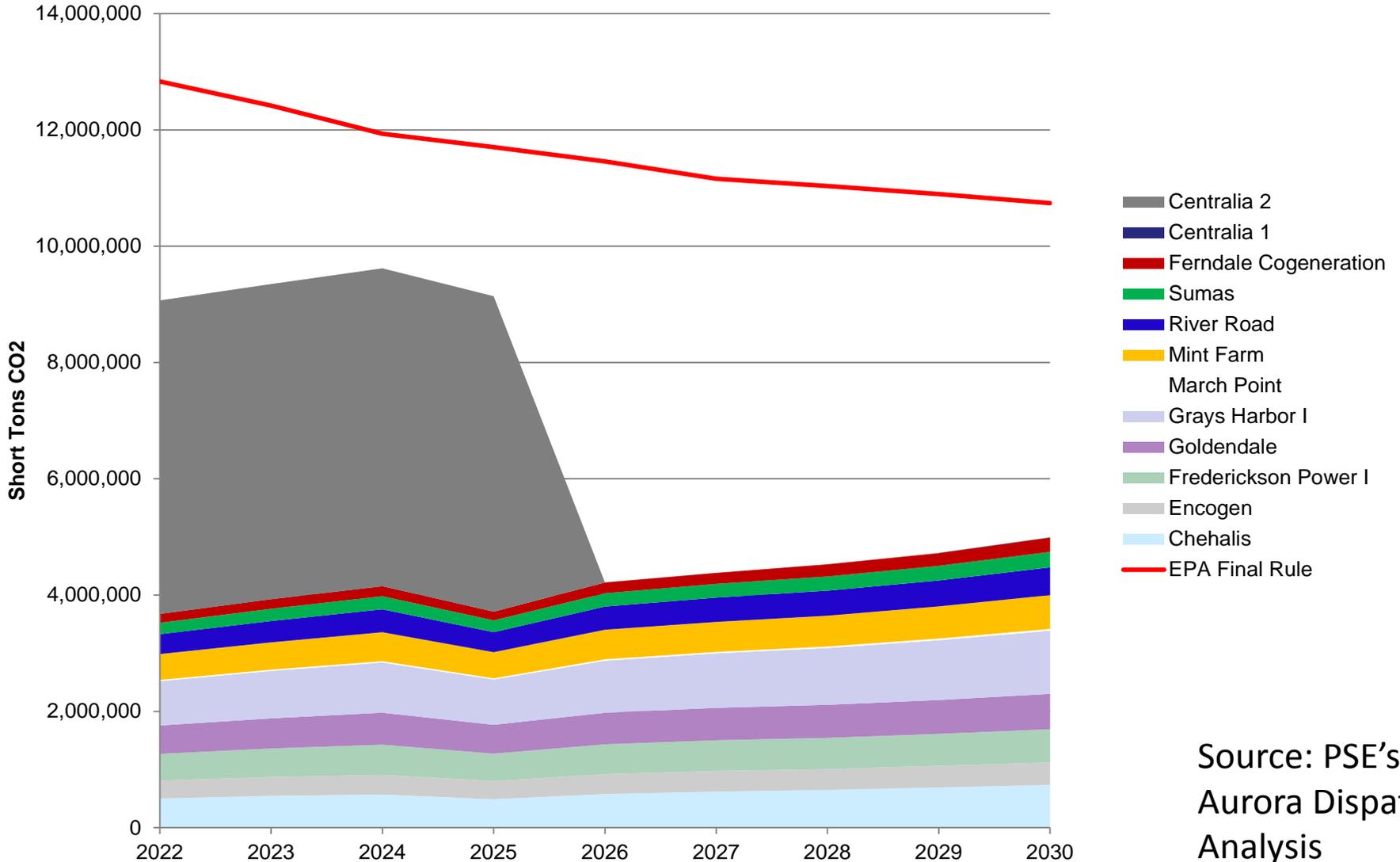
Mass: Historic CO₂ Emissions



Emissions estimated from EIA generation data

Source: WA Dept. of Commerce

Mass: Future CO₂ Emissions

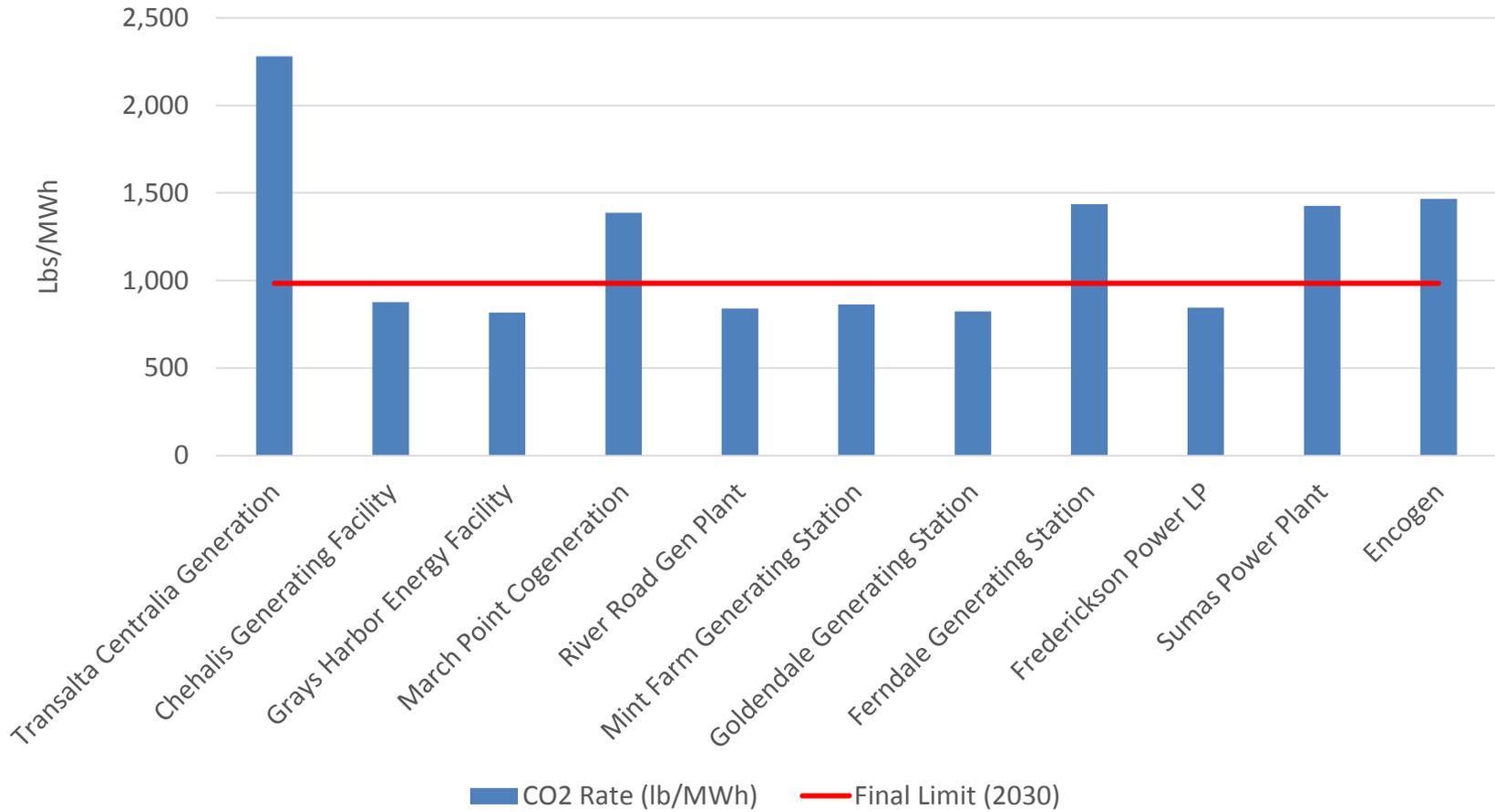


Source: PSE's
Aurora Dispatch
Analysis

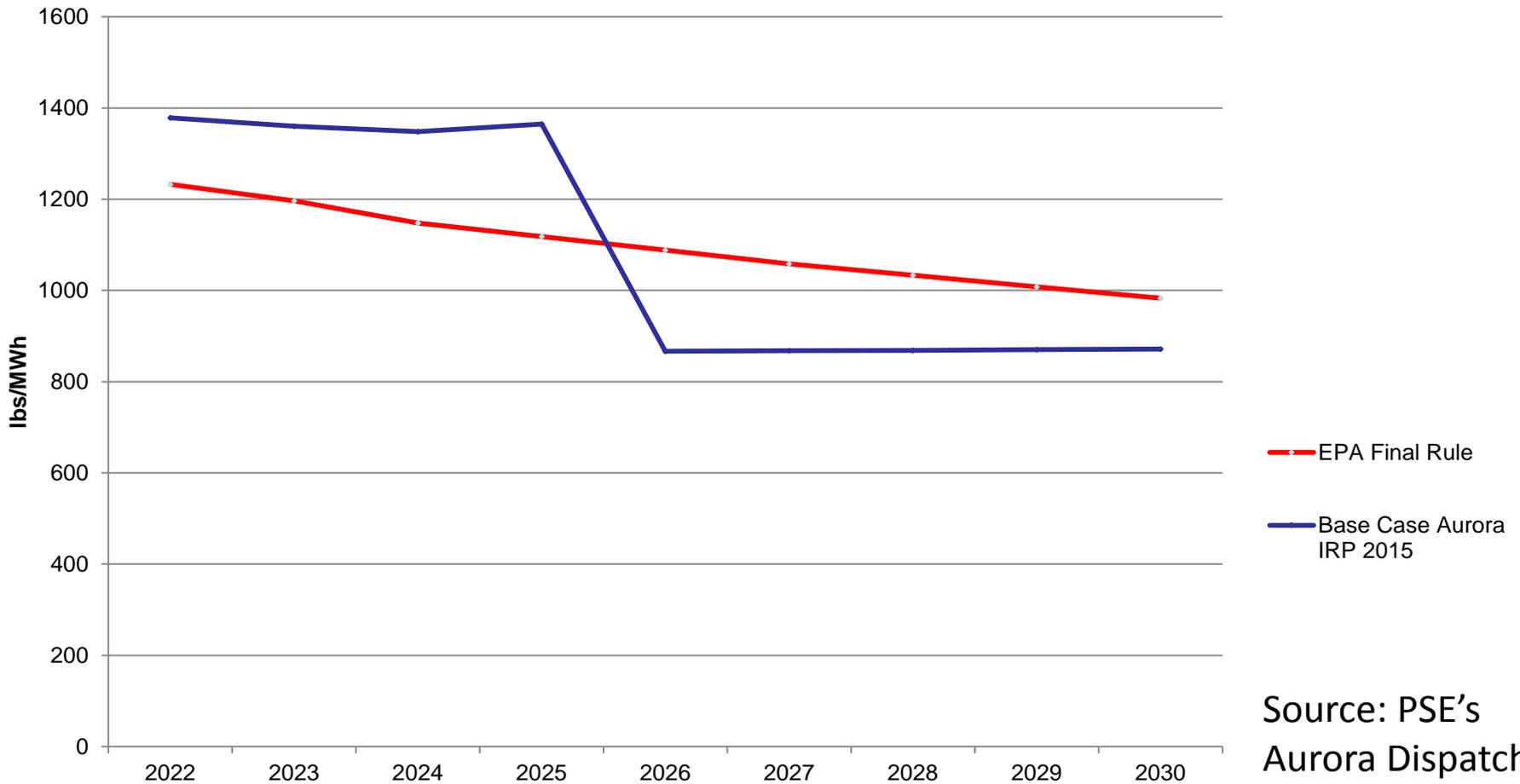


Rate: Current CO₂ Emissions

2014 Emissions Rates



Rate: Future CO₂ Emissions

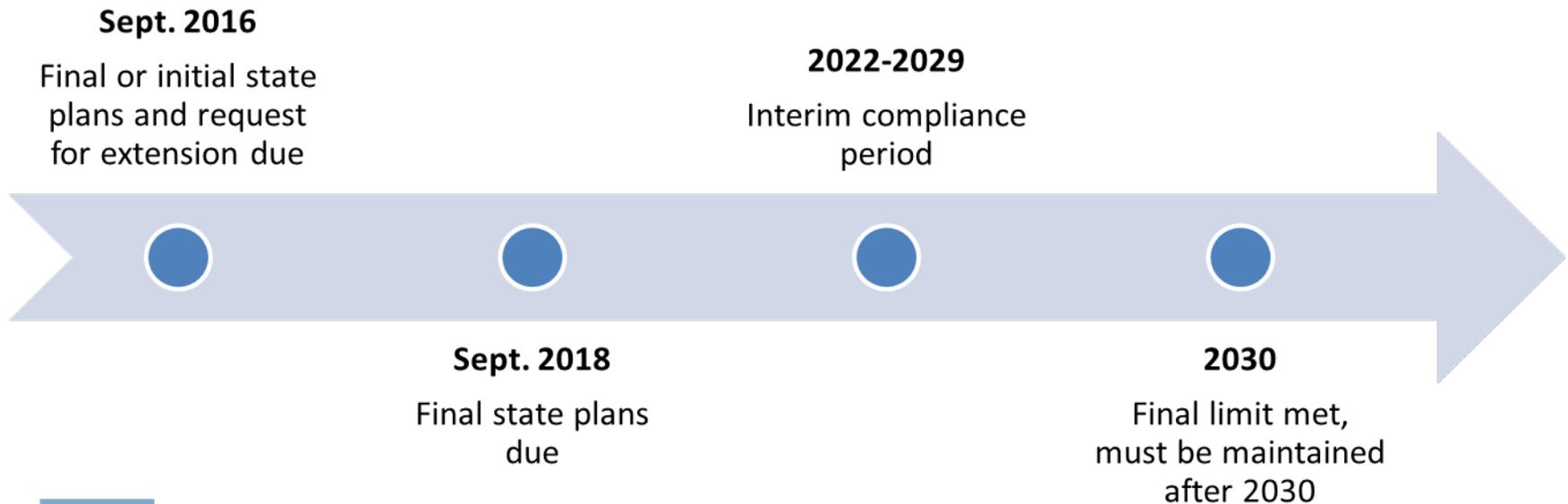


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Next Steps

- Commerce, Ecology, UTC continue to analyze final rule and evaluate options
- Additional stakeholder engagement on key topics
- Outreach to vulnerable communities



How to participate?

Meetings prior to Sept. 2016 submission of initial plan

Tentative Stakeholder Meeting Dates

Date	Time	Location	Topics
August 26, 2015	1-3:30	Olympia, WA	Listening Session
November 10, 2015	10-2:30	Olympia, WA	Technical Workgroup
January 27, 2016	2-4:30	Seattle, WA	Environmental Justice
February 4, 2016	1-4	Olympia, WA	Power Sector
February 23, 2016	9-12	Ecology HQ in Lacey, WA	TBD
March 29, 2016	9-12	TBD	TBD
April 28, 2016	1-4	TBD	TBD

Tentative Public Meeting Dates

Date	Time	Location	Topics
March		TBD	TBD
April		TBD	TBD
June 8, 2016	6-8	TBD	Public Hearing
June 14, 2016	6-8	TBD	Public Hearing



Questions and Discussion

For more information

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- Washington Clean Power Plan webpage:

http://www.ecy.wa.gov/programs/air/permit_register/clean_power/clean_power.htm

- Sign-up for e-mail updates:

<http://listserv.wa.gov/cgi-bin/wa?A0=CLEAN-POWER-PLAN-WA>



Implications, Interests, and Concerns for low-income and vulnerable communities

DISCUSSION

Potential Discussion Topics

Potential types of impacts of the CPP

Options that may benefit low-income communities

Potential to leverage investments in low-income weatherization

Relation to the Clean Air Rule and other state policies

How to encourage meaningful involvement

How to incorporate environmental justice in the planning process

Allowance trading