

The Clean Power Plan: Overview and Requirements

Public Stakeholder Meeting #1

November 12, 2015

Sig Jaunaraajs – Bureau of Air Quality Planning



NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

Reducing CO₂ Emissions from Power Plants

- Fossil fuel-fired power plants are by far the largest source of CO₂ emissions in the U.S., making up 31% of total greenhouse gas emissions.



Clean Power Plan Regulations

- On August 3, 2015 EPA released final rules for reducing CO₂ from fossil fuel-fired Electrical Generating Units (EGUs)
- Carbon Emission Standards for new, modified and reconstructed power plants, set under the authority of Clean Air Act section 111(b)
- **Clean Power Plan** to cut carbon emissions from existing power plants, under section 111(d)

Clean Power Plan Goals

- By 2030, reduce carbon emissions from the U.S. power sector 32 percent below 2005 levels

Other harmful air pollutants will be reduced too; including emissions of sulfur dioxide and nitrogen oxides

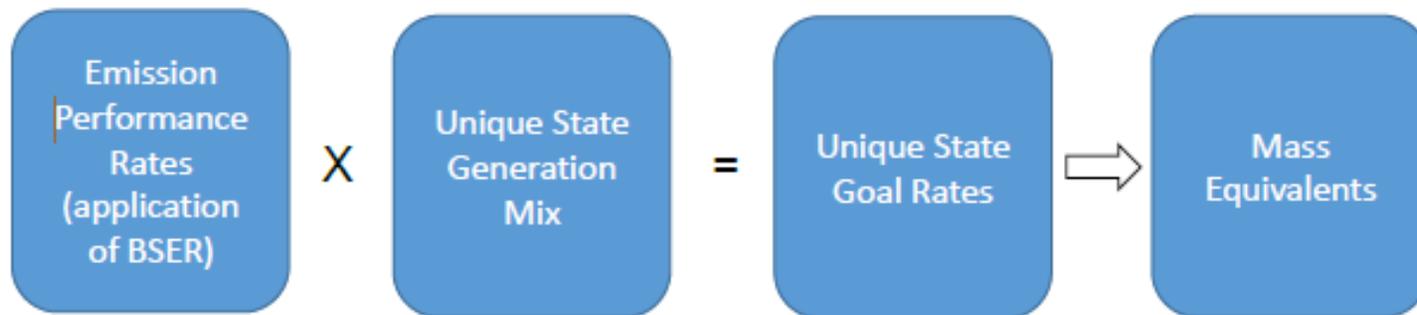


How the Clean Power Plan Works

- EPA set national emission performance rates (lbs. CO₂/MWh) for two categories of fossil fuel-fired EGUs: coal- and oil-fired power plants and natural gas-fired EGUs
- Rates were determined by applying three building blocks to EGUs in three regions
 - Block 1. EGU efficiency improvements 2-4%
 - Block 2: Use “underutilized” natural gas capacity
 - Block 3: Expand development of renewables

How the Clean Power Plan Works

- State goals are determined by multiplying the national performance rates by each State's energy generation mix.

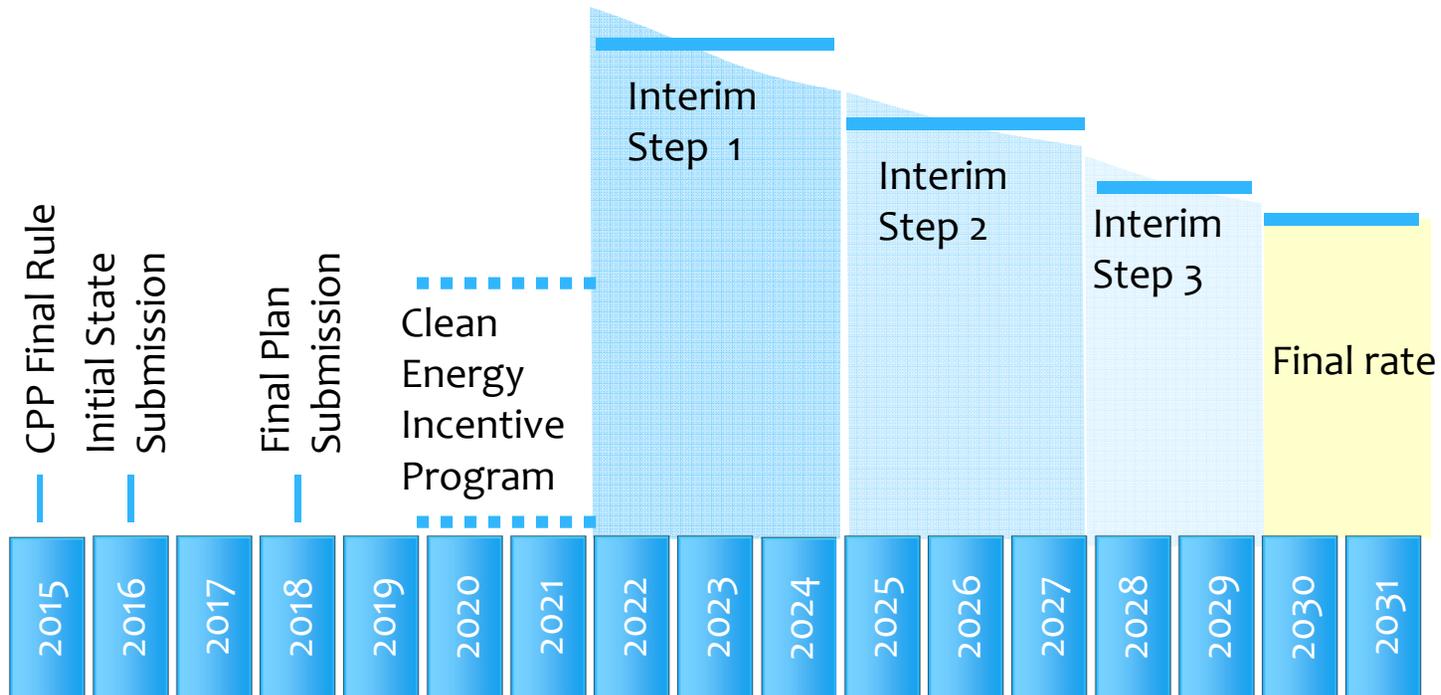


<http://www2.epa.gov/cleanpowerplan>

How the Clean Power Plan Works

- Each State must develop a State Plan to meet interim steps and the final goal by 2030.
- States may submit a State Plan by Sept 6, 2016 or they may provide an initial submittal and request a 2 year extension until Sept 6, 2018.
- States may also elect to participate in the Clean Energy Incentive program which provides credits/allowances for early reductions.
- If a State fails to submit a plan or their plan is not approved, EPA will implement a Federal plan for the State.

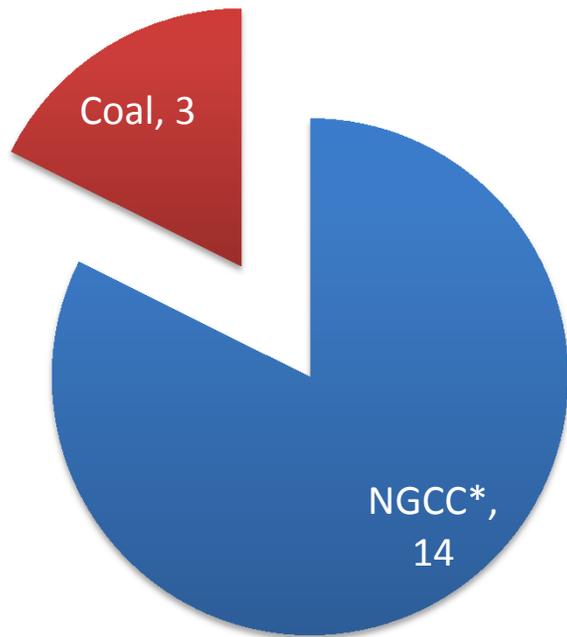
Compliance Timeline



Nevada's Clean Power Plan Goals

- Nevada must reduce emissions by 2030 from a 2012 baseline:
 - by 22% on a rate basis, or
 - by 13% on a mass basis, and
 - meet the interim step goals (during 2022 - 2030)
- Nevada is well positioned to comply based on Nevada Legislature Senate Bill 123, planned retirements and NV's Renewable Portfolio Standard

Affected Facilities by Fuel Type

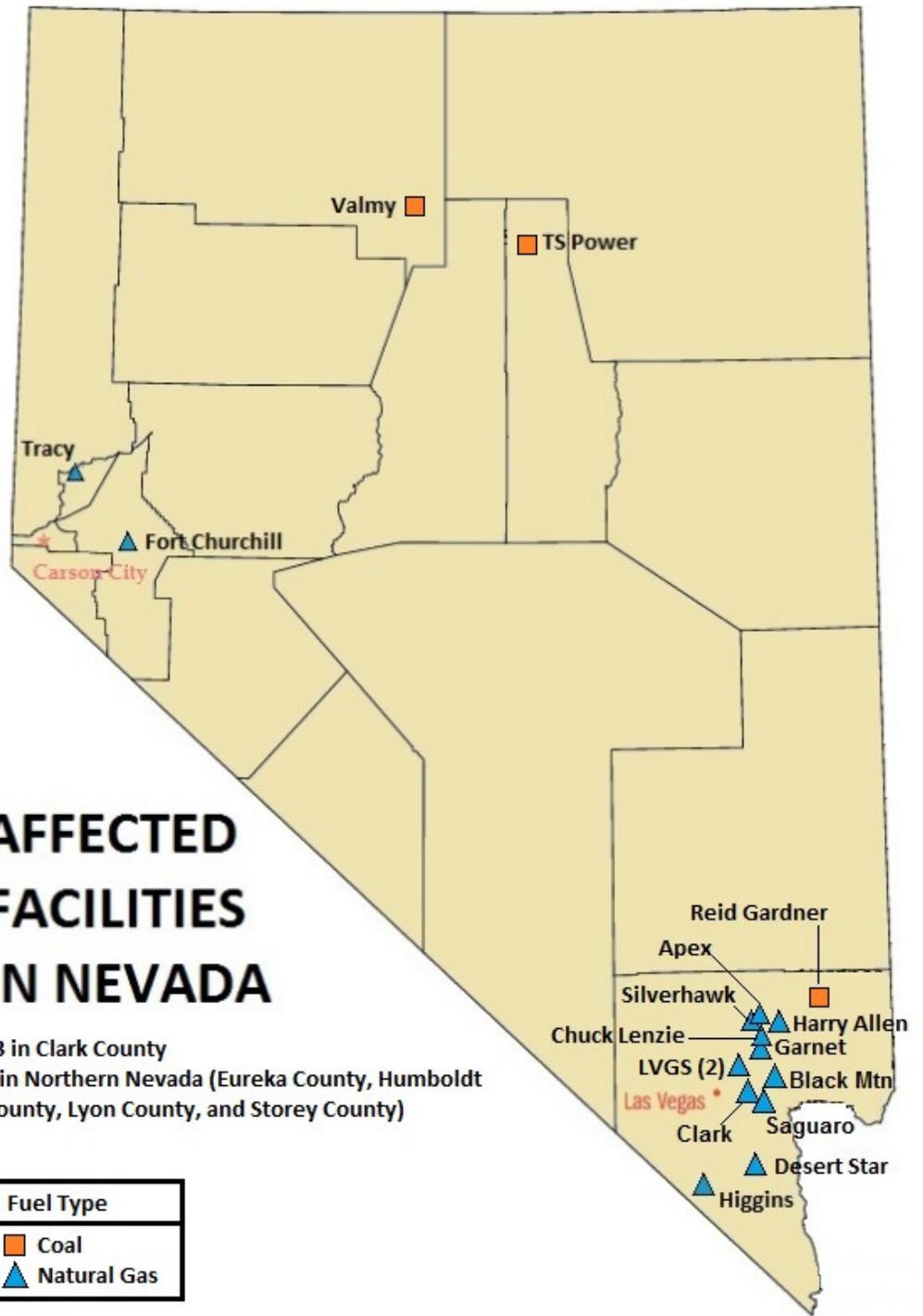
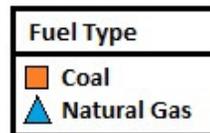


* Some affected NGCC units also use oil and/or gas as a fuel source

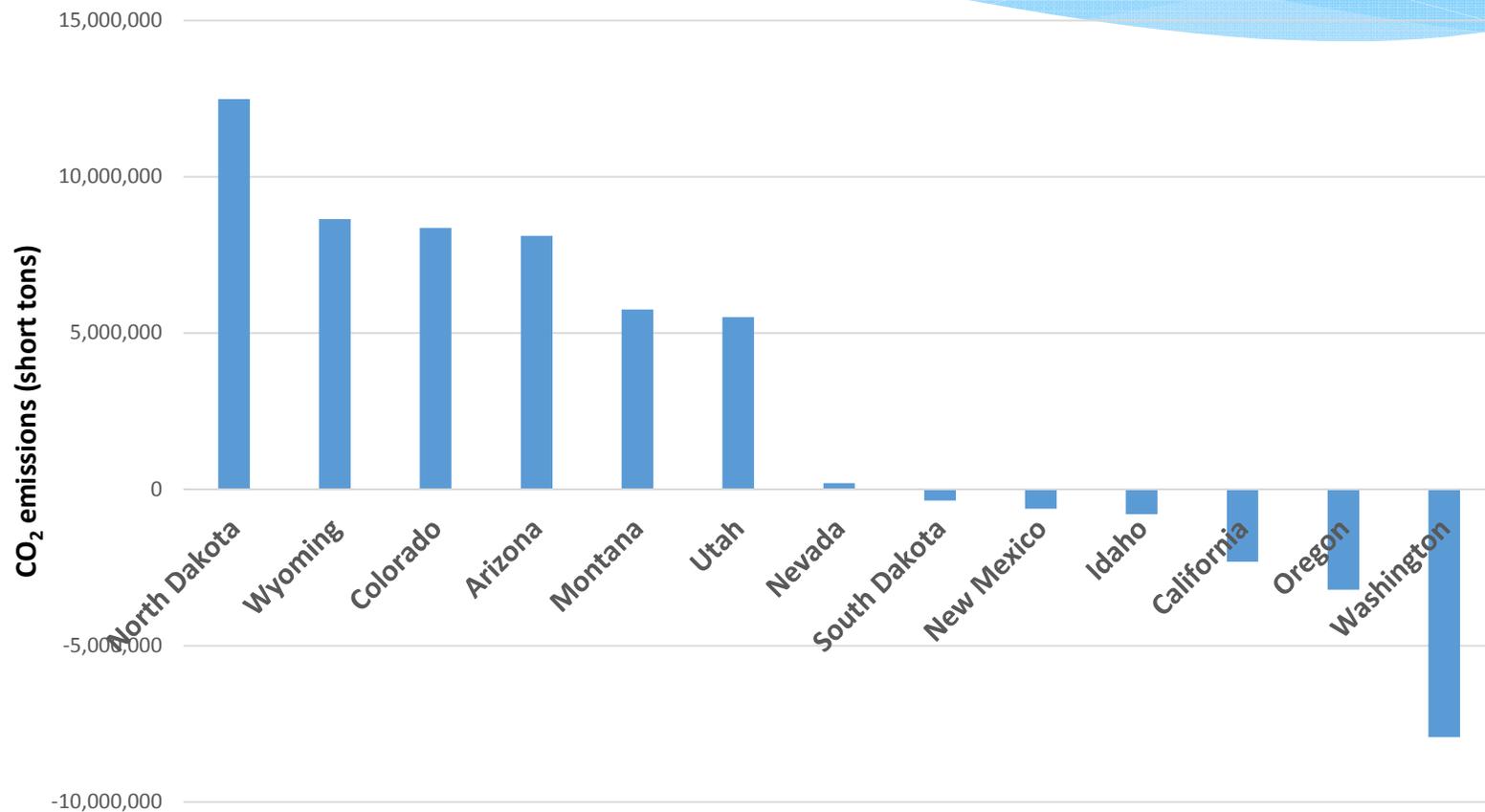


AFFECTED FACILITIES IN NEVADA

13 in Clark County
 4 in Northern Nevada (Eureka County, Humboldt County, Lyon County, and Storey County)



Comparison of Western States' Projected Emissions vs. Compliance Goals Based on 2030 Known/Planned Retirements



Credit: Center for the New Energy Economy (CNEE), <http://cnee.colostate.edu/>

Nevada Stakeholder and Public Participation

- Nevada is starting the process of developing a state plan
- Nevada intends to hold 3-4 public meetings between now and Sept. 16
- NDEP is seeking public comment on what issues and concerns we should take into consideration as we move forward in this process

Nevada Stakeholder and Public Participation



- Watch for a NDEP Clean Power Plan Webpage
- Submit Public comments: NVCPP@ndep.nv.gov or mail comments to:

NVCPP Comments
c/o NDEP BAQP
901 S. Stewart St., Suite 4001
Carson City, NV 89701



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