

## Section 111(d) of the Clean Air Act: EPA guides the destination, states set the route, and ideas for discussion.....

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BOSTON CHICAGO DALLAS DENVER LOS ANGELES MENLO PARK MONTREAL NEW YORK SAN FRANCISCO WASHINGTON

## **Today's presentations**

Karen Palmer – Resources for the Future (RFF)

- Basics of Clean Air Act 111(d)
- RFF modeling work

Victor Niemeyer – Electric Power Research Institute (EPRI)

- EPRI analyses
- Electric industry perspectives

Sue Tierney – Analysis Group

- Some implications for the states
- Some tough nut issues

## Section 111(d) of the Clean Air Act

For existing sources:

EPA prescribes a procedure through which each state submits a plan to:

- establish a "standard of performance" for air pollutants (e.g., greenhouse gases ("GHG")) that reflects the degree of emission limitation achievable through the application of the best system of emission reduction which (taking into account the cost of achieving such reduction and any non air quality health and environmental impact and energy requirements) the Administrator determines has been adequately demonstrated.
- Provide for the Implementation and enforcement of such standard of performance

EPA shall take into account the remaining life of the life of the source









## EPA is the GPS: Guidance to states [just like putting the starting point and ending point into Google Maps]

States in the Driver Seat: Develops the plan [just like choosing the preferred routes after seeing EPA suggested route ('model')]

# Figuring out the route to reduced GHG at existing units (comments from EPA...)

- "Cooperative federalism"
- "Flexibility"

"Providing room to figure out how to manage the reductions"

"Trying to find a model that will allow all states to get there....given differences in generation mix, early action, costs...."

"The standard for 111(d) will not be the same as NSPS under 111(b)"

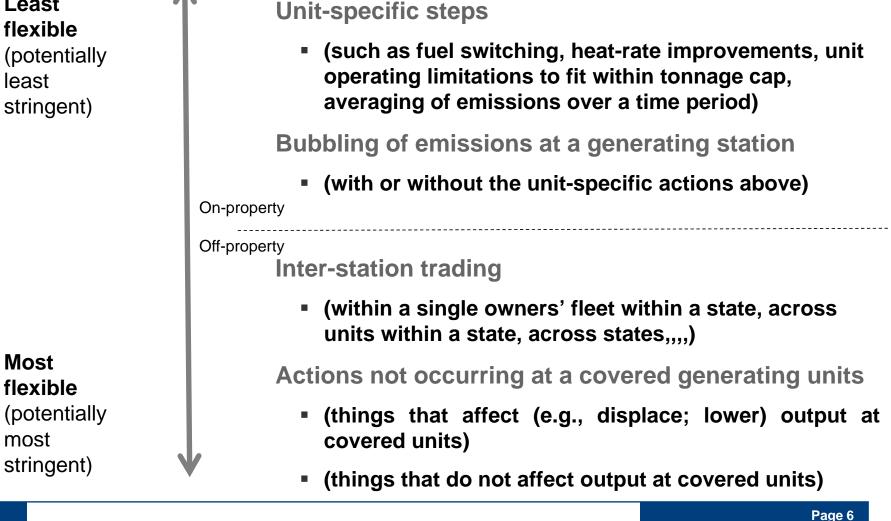
#### "Not a national cap-and-trade program"

- Not going to be a single national program of any kind
- Won't require a state to adopt cap-and-trade if the state doesn't want it
- Will consider cap-and-trade if proposed by a state



## **Theories of "Flexibility"**

Least flexible (potentially least stringent)





## What matters in all of this?

### Section 111(d) actions:

## Things that reduce emissions of GHG at generating units that emit GHG emissions

## **State action: examples**

#### **RGGI:** power sector only

- Original 10 states (with loss of NJ) = 9 states
- Any program design changes? Potential new states?

#### CA: economy-wide; potential to link up with neighboring states

- New accords with Oregon and Washington
- Use of offsets relative to power section emissions reductions

#### Colorado – Clean Air – Clean Jobs

Integrated resource plan for coal/gas resources

#### **Other states**

• Some combination of IRPs, state plans, other approaches

## **Issues of interest to the states (and EPA):**

#### Credit for early action

- Cap-and-trade program versus project investment
- Timing issues

#### **Common currency**

CO2 Cap versus CO2/MWh emissions rate

#### **State equivalency**

• Timing of reductions, scope and breadth and stringency of reductions

#### Safety valve:

Implications for state equivalency

## **Other take-aways regarding the states:**

#### Harmonization of existing (and/or modified) state programs

- Cap and trade
  - (e.g. RGGI power sector only, with centralized auctions of allowances, and safety valve);
  - (e.g., CA economy wide program, auctioned allowances, with safety valve)
- Performance-based emissions reduction requirement (CO2/MWh) including allocation for free, no/some safety value

#### Leakage: lots of forms:

 Cross-state emissions leakage, cross-sector leakage within a state, cross-state leakage in light of economic dispatch

#### Geographic reach of the program? Tailored program design issues

- All states within an RTO?
- Multiple RTOs, interacting with each others?
- Bilateral MOUs across states within or in neighboring RTOs?

## Some take-aways

#### EPA sets the destination(s):

- States are in the driver seat to figure out how to get to the designation
- It's important to focus more on the states than the EPA

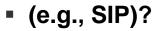
#### **Regarding the destination:**

- EPA is not going to adopt/force a national approach
- Focus on the EPA "guidance" (6/2014) as a platform, only so much as to see the opportunity and target, and then shift attention to the states
- States can use EPA approach or propose another (that's equivalent)
- The things that matter are things that affect emissions at affected units

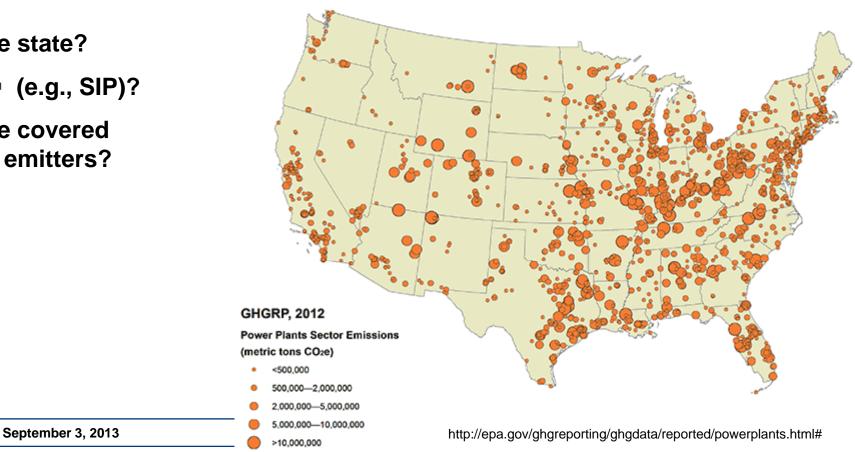
## **Enforcement:**

## Who is the entity accountable to EPA for meeting the approved plan to meet/implement/enforce the standard?

The state?



The covered emitters?



Data Source: 2012 Greenhouse Gas Reporting Program



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