# Climate Legislation & Regulation

CIBO Environmental & Energy Committee Meeting October 15, 2009

### **Climate Presentation Overview**

- Waxman-Markey HR 2454, The American Clean Energy & Security Act
- Senate action on legislation
- EPA GHG Reporting rule status
- Status of other EPA rules regulating GHGs

### Title I, Clean Energy

- Renewable Electricity & Efficiency Standards

   6% RES by 2012, moving to 20% RES by 2020
  - Utilities can meet these requirements by purchasing "renewable" electricity from industrials
  - Up to 25% of obligation can come from efficiency improvements; states may petition to make this 40%
  - No RES credit for nuclear, CCS, nonincremental hydropower, non-renewable biomass

### Title I, Clean Energy

### • Other features:

- Clean transportation (incl electric vehicles)
- State development funds to manage federal funding for clean energy & efficiency programs (from allowance auction proceeds)
- Smart Grid & transmission planning
- Regional energy innovation hubs/research centers
- Loan guarantee & clean energy investment funds for nuclear and advanced technologies

## Title II, Energy Efficiency

#### Major programs:

- Building efficiency standards (updated national building codes every 3 years)
- Retrofit program for residential/non-residential structures
- Lighting & appliance standards
- EPA WaterSense program
- Transportation (vehicle standards, state emission reduction goals, enhanced SmartWay program)

## Title II, Energy Efficiency

- Industrial energy efficiency program:
  - Run by DOE
  - Electric & thermal waste energy recovery reward program
  - Motor efficiency rebate program
  - Clean energy manufacturing revolving loan fund
  - Clean energy & efficiency manufacturing partnerships

- Reduction targets & timetables
   2012: 3% below 2005 levels
  - 2020: 17% below 2005 levels
  - 2030: 42% below 2005 levels
  - 2050: 83% below 2005 levels
  - Amendments to Title VI of CAA to impose declining consumption cap on HFC emissions
     Mandatory NAS review

- Covered gases: 5 Kyoto gases plus nitrogen trifluoride; EPA can add others
- Mandatory GHG reporting:
  - Applies to covered entities & others
  - Applicability threshold down to 10,000 tons
    CO2e, 25,000 tons for vehicle fleets
  - Regulations due 6 months after passage (expectation that current EPA reporting rule becomes a registry rule?)

#### • Point of regulation/covered sources:

- 2012: EGUs (downstream); natural gas/petroleum/coal <u>liquids</u> that when combusted emit at least 25K tons of CO2e (upstream)
- 2014: industrial sources emitting at least 25K tons, excluding petroleum and renewable biomass combustion (downstream), plus all size industrial sources in trade/energy intensive industries
- 2016: natural gas Local Distribution Companies

- Free allowances/auction revenues available for many sectors & other groups (% from total allowance pool):
  - Electricity consumers through LDCs: 37.5% in 2012
  - Merchant coal generators: 6.3% in 2012
  - Natural gas consumers: 9% in 2016
  - Home heating oil/propane consumers: 1.9% in 2012
  - Low-income consumers: 15% through 2050 (auction revenues)
  - Energy efficiency/renewable energy: 9.5% grant to states in 2012
  - Refiners: 2.3% in 2014
  - Deficit reduction: 10.5% in 2012, declining until 2030, then 17% in 2030 (auction revenues)

- Special allocation to energy/trade intensive industries: 15% in 2014; must meet either of eligibility criteria below
  - (1) Combination of Trade, Energy, GHG intensity
  - Trade Intensity Metric
    - (value of imports + exports) / (value of shipments + imports) > 15%
  - and Energy Intensity Metric
    - energy cost / value of shipments > 5%
  - or GHG Intensity Metric
    - (direct + indirect CO2e per ton) \* \$20 / value of shipments > 5%

#### - (2) Very Energy or GHG intense

- Energy Intensity Metric
  - energy cost / value of shipments > 20%
- or GHG Intensity Metric
  - (direct + indirect CO2e per ton) \* \$20 / value of shipments > 20%

- Variety of cost containment measures:
  - Allowance trading (no restrictions)
  - Banking (not limited)
  - Borrowing (with & without interest)
  - Strategic reserve (only available to covered entities, lots of restrictions; \$28 minimum price
  - International allowances (program must be at least as stringent as US)

- Waxman-Markey bill allows capped sources to use up to 2 billion offsets of allowances annually (split between domestic and international offsets)
  - An offset is a reduction in GHG emissions related to a project or activity that occurs outside of the covered entities
  - Gives EPA and USDA broad authority for developing offset program rules
  - Allows exchange for early action offset credits from certain state and voluntary programs
- Title V of the Waxman-Markey bill (Representative Peterson Amendments) establishes key principles for agricultural and forestry offsets
  - Agricultural, grassland, and rangeland sequestration and management practices
  - Manure management and disposal

- Interaction with EPA Clean Air Act authority:
  - Prohibits EPA regulation of GHGs as criteria pollutants (no NAAQS)
  - Prohibits EPA regulation of GHGs as HAPs (no MACT)
  - Prohibits EPA using NSR/PSD for GHGs
  - Requires EPA to set NSPS for uncapped stationary sources
  - Requires EPA to regulate certain mobile sources
  - Requires EPA to regulate new coal-fired utilities & CCS storage sites

### Expected 2009 Senate Action on Climate

#### Schedule

- 9/28 release of Boxer bill (?) (could be Title by Title)
- EPW discussion/mark-up expected, but floor vote increasingly unlikely; health care & financial reform higher priorities
- Separate energy legislation still possible, but could be delayed until Spring 2010
- Key issues
  - Stringency of cap; cost containment; offsets; free allowances vs. auctioned; EPA authority; state preemption

### **EPA Regulatory Activity**

- GHG Reporting Rule
- Endangerment Finding
- Mobile source GHG rules
- GHG PSD rule
- NSPS for utilities and others
- All signs point towards concerted EPA push—is this a game of chicken with Congress, a Copenhagen play, a power grab, or all of the above?

### EPA GHG Reporting Rule

- At OMB; release next month (?), 60-day Congressional review
- Lots of meetings with OMB & EPA over last few weeks
- Key issues:
  - Delayed implementation or use of best available data
  - 3<sup>rd</sup> party certification vs. self certification; certification requirements
  - Unit vs. facility-level reporting
  - Boiler protocols

### **EPA Endangerment Finding**

- Final finding 1<sup>st</sup> step towards GHGs as regulated pollutants
- US Chamber challenge
- Litigation a virtual certainty
- Key issue: welfare vs. human health finding

### EPA PSD/Title V Rule for GHGs

- At OMB
- Key issues:
  - Major source threshold for PSD & Title V
  - Significance threshold for GHGs
  - Do other parts of PSD/NSR reform rule remain in place? (demand growth exclusion, capable of accommodating exclusion, actual to future actual calculations, etc)
  - What is BACT?

### NSPS for GHGs

- Boiler NSPS under EPA voluntary remand
- EPA interested in integrating NSPS & CAMR replacement
- Will GHG standards be rolled in?
- Next categories: cement, refineries, chemicals?
- EPA able/likely to roll these out slowly (?)