FEDERAL POLICY ON BIOMASS POWER:

THE CLEAN POWER PLAN & BEYOND

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- Founded in 1984 by a bipartisan Congressional caucus as an independent non-profit organization (but receives no Congressional funding)
- Source of non-partisan information on energy and environment policy development for Congress and other policymakers
- <u>Climate change</u> is one of the most serious problems facing civilization today — impacting infrastructure, water supply, agriculture, public health and natural ecosystems

Biomass is an Abundant Resource



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Courtesy of Wikipedia



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Why biomass?

- Is a flexible renewable resource: liquid fuels, heating and cooling, electricity
- Biomass electricity can provide base load power to more intermittent renewables
- Biomass can be co-deployed with other renewable and non-renewable electricity
- Works well as a distributed generation capacity



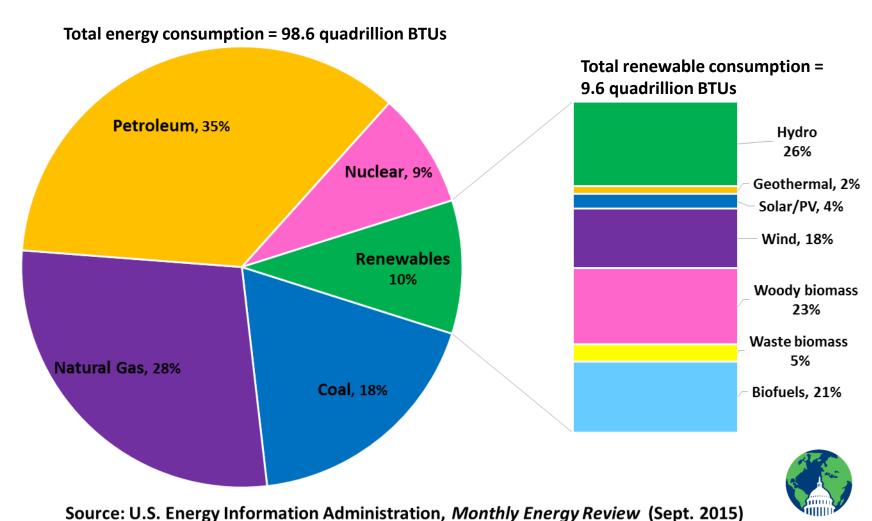
Biomass - Utilizing Waste Materials

- Biomass is commonly disposed of as waste
- A renewable resource that, if not managed sustainably, can contribute to environmental degradation and climate change
 - Municipal solid waste → Landfill gas
 - Hazardous fuel build-up → Forest fires
 - Untreated manure → Nutrient loading in watersheds



Biomass Plays an Important Role in Renewables

U.S. Energy Consumption by Energy Source, 2014



What is the Role of Biomass in the Clean Power Plan?

- EPA recognizes the role that using "waste-derived feedstocks" and "forest-derived industrial by-products" can play in the low-carbon economy, as they "are likely to have minimal or no net atmospheric contributions of biogenic CO2 emissions, or even reduce such impacts, when compared with an alternate fate of disposal."
- Key questions remain to be answered by EPA's scientific advisory panel regarding GHG accounting
- Expecting finalized *Framework* for biomass late 2015/early 2016



Low-Risk Biomass Utilization

Despite uncertainties on GHG accounting, consensus exists on waste utilization

- Forestry residue
- Wood culled from:
 - Pine beetle kill
 - Accumulated hazardous fuels
- States are moving forward on these low-risk, accepted uses.
 - Avoids sending to landfill, open burns
 - States looking to EPA for policy certainty

Federal & State Support of Biomass

- Role of biomass in carbon management, renewable generation, forest management is recognized by:
 - U.S. Global Change's National Climate Assessment
 - Renewable Fuel Standard
 - Farm Bill Programs
 - Department of Interior, U.S. Forest Service, Department of Energy
- States are already utilizing biomass as part of state Renewable Portfolio Standards (RPS)



Federal support of biomass & biogas

- Renewable Fuel Standard
 - Biogas now has a pathway under the RFS has provided HUGE boost to industry
- Production Tax Credit Sect. 45
- Energy Title (Title IX) of the 2014 Farm Bill
 - Significant support for renewable energy, energy efficiency
- President's Biogas Roadmap (part of methane strategy)
 - Voluntary compliance
- DOI, USFS and others recognizing importance of woody biomass to hazardous fuels reduction
- EPA's *Clean Power Plan* 111(d)
 - Policy signal that carbon will be increasingly expensive



Takeaways:

- Already see consistent federal support of biomass
- But, EPA still working through biogenic carbon issue
- States have been integrating biomass into state RPS
 29 States, D.C., and 2 territories have an RPS
- Barriers include public perceptions & lack of knowledge on technology
- States need to be able to utilize low risk biomass feedstocks as a renewable source of energy, need policy consistency & certainty

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THANK YOU

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