

COUNCIL ON SUSTAINABLE
BIOMASS PRODUCTION



Council on Sustainable Biomass Production

California Biomass Collaborative

7th Annual Forum

May 10, 2010



Our Goal

Ensure that biomass feedstocks in the U.S. are produced in a sustainable manner, ***balancing*** economic, environmental and social goals.

Our Strategy

Develop and promote a voluntary standard and third-party verified certification system through which growers of biomass and biofuel/bioenergy producers can be recognized in the market.



CSBP Focus

- dedicated fuel crops (e.g., switchgrass)
- crop residues (e.g., corn stover)
- purpose-grown wood (e.g., poplar plantation)
- forestry; and,
- native vegetation (e.g., mowed prairie).

Does not include food crops.



All stakeholders using consensus based decision-making

- ***Producers/farmers:*** PA's Monona Farms, Iowa's Prairie Lands Bio-Products, Weyerhaeuser, MO's Show Me Energy
- ***Refiners:*** Verenum Corporation, ZeaChem, Dupont Dansico, Abengoa
- ***ENGOS:*** EDF, NRDC, TNC, TRCP, Ducks Unlimited, NWF, UCS, NatureServe
- ***Energy Companies:*** Chevron, Duke Energy
- ***Biotech Companies:*** Mendel, Ceres, ArborGen
- ***Agencies:*** USDA (Forestry and Ag), EPA, DOE's Office of Biomass Production, Association of Fish and Wildlife Agencies
- ***Academics:*** Texas A&M, Energy Biosciences Institute (Univ. of Illinois)



Provisional Standard

- Two years of intensive work
- Address the full complement of sustainability issues through ***principles, criteria, and indicators***



CSBP Standard

- Applicable to both agriculture and silviculture.
 - Climate Change
 - Biological Diversity and Productivity
 - Water Quality and Quantity
 - Soil Quality
 - Socio-Economic Well-being
 - Integrated Resource Management Planning
- Through ***principles, criteria, and indicators***



Principle/Criteria/Indicator

P: Water: Biomass production shall maintain or improve the quality and quantity of surface water, groundwater, and aquatic ecosystems.

C: Water Quality: Maintain or improve surface and ground water quality.

I: Erosion and sediment: Program participants shall adopt conservation practices related to erosion control.



Agriculture: Draft Standard → Provisional Standard

- **Field testing of the standard in 2010**
 - Feasible/practical for large growers, small growers, and cooperatives
 - Scientifically valid as a measure of sustainability
- **Field testing of certification program in 2011**
- **Finalization and launch of certification program in 2012**



Forestry:

- **Coordinating with existing forestry certification programs (in process of developing biomass components)**
- **Short rotation woody biomass???**
- **Completion of forestry components by 2012.**



Biomass Users Standard

- **Cover biomass conversion to both biofuel and biopower**
- **Begin development late-2010**
- **Standard completed and certification program launched in 2012**



Key Challenges for Sustainable Cellulosic Biomass Production

- Farmer Engagement and Interest in Sustainability for New Industry
- Developing the Value Proposition for Sustainable Biomass Production
- Land Conversion for Biofuels (forests and grasslands)
- GHG Emission Measurement
- Indirect Land Use Change Impacts
- Feedstock vs. Refinery Sustainability

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To submit comments:

Link provided at www.csbp.org

For more information:

- www.csbp.org
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Questions & Discussion