

Council On Sustainable Biomass Production (CSBP)

Challenges for Sustainable Second Generation Biofuels

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Why Sustainability?

- As we learn from first generation biofuels in the marketplace, ***the imperative*** for ***sustainable*** second generation, cellulosic biomass production has emerged.
- CSBP seeks to ensure that biomass feedstocks in the U.S. are produced sustainable manner, ***balancing*** economic, environmental and social goals.

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MEMBERSHIP

- *Producers/farmers:* Public Lands Council, PA's Monona Farms, Iowa's Prairie Lands Bio-Products, Plum Creek Timber, Weyerhaeuser, MO's Show Me Energy
- *Refiner:* Verenium Corporation
- *ENGOS:* EDF, NRDC, TNC, TRCP, Ducks Unlimited, NWF, WRI, AF&WA
- *Oil Cos.:* Chevron, ConocoPhillips, BP
- *Biotech Cos.:* Mendel, Ceres and ArborGen
- *Feds:* USDA (Forestry and Ag) and DOE's OBP
- *Academics:* Auburn Univ. and Texas A&M

Program Basics

- CSBP is developing a ***comprehensive, voluntary certification program*** that includes an enrollment period for entry into the program, as well as two levels of performance, silver and gold level certification.
- CSBP will support biomass producers entering the market through ***education and training programs***, and support and guidance for auditing and compliance.
- Governance structure will be ***multi-stakeholder*** for the long-term stewardship of the program.

Draft Standard

- Standard to address the full complement of sustainability issues through ***principles, criteria, and indicators*** applicable to both agriculture and silviculture.
- Addressing E, E, and S balance:
 - Climate Change
 - Biological Diversity and Productivity
 - Water Quality and Quantity
 - Soil Quality
 - Socio-Economic Well-being
 - Integrated Resource Management Planning

Key Challenges for Sustainable Cellulosic Biomass Production

- Farmer Engagement and Interest in Sustainability for New Industry
- Developing the Value Proposition for Converting to 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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TIMELINE (Estimated)

- | | |
|----------------|--|
| Jan – Sept '08 | Develop initial draft principles, criteria and indicators (standard) |
| Sept – Mar '09 | Refine initial draft standard |
| Mar - May '09 | Finalize draft standard; Conduct focus groups w/ agriculture community; Develop structure for long-term management of CSBP |
| May - Sept '09 | Seek broad input on draft standard |
| Sept - Dec '09 | Adjust standard based on comments; Launch CSBP as 501(c)3 entity |
| Spring 2010 | Begin implementing CSBP standard program |

CSBP Commitment

- Development of highly credible, AND implementable standards well in advance of full-scale production of cellulosic bioenergy.
- Help ensure that sustainability is part of the platform on which this industry is built.

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