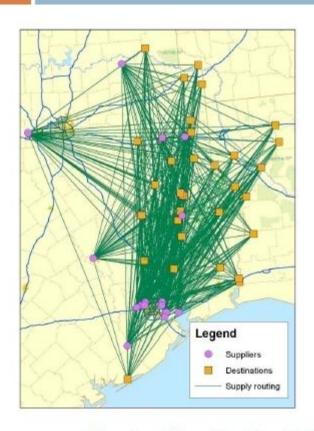


Project Overview



Goal: To develop a biomass supply chain optimization model for the United States

- Develop an integrated model of the biomass supply chain from field/forest to final product distribution
- Integrate optimization routines for determining the configuration with maximum profit
- Deliver results that inform policies and enable detailed analysis of resource supply and sustainable use.

Funding Provided by U.S. Department of Energy Office of Biomass



Feedstock Assessment

Completed Resource Datasets

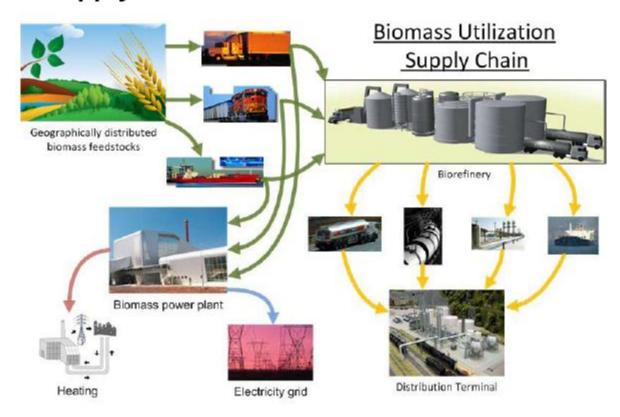
Bioenergy Resources

- Agricultural crop residues (corn stover, wheat straw)
- Tallow and yellow grease
- Orchard and vineyard trimmings
- Forest thinnings slash, mill waste, and pulp wood
- Energy crops (switchgrass, mixed grass, big bluestem)
- Corn and select oilseeds (soy and canola)
- Municipal Solid Waste



Spatial Optimization

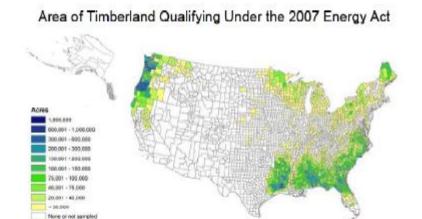
Biomass Supply Chain

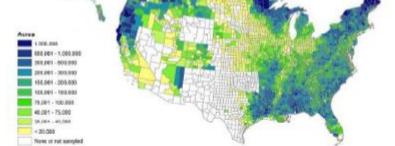




Sample Results

Legislative Definitions of Biomass





Area of Timberland Qualifying Under the 2008 Farm Bill











Spatial Optimization

