

HERTY
Advanced Materials
Development Center

House Study Committee on Bioeconomic Development

House Resolution 662

September 24th 2007

Bio energy and industrial production sector



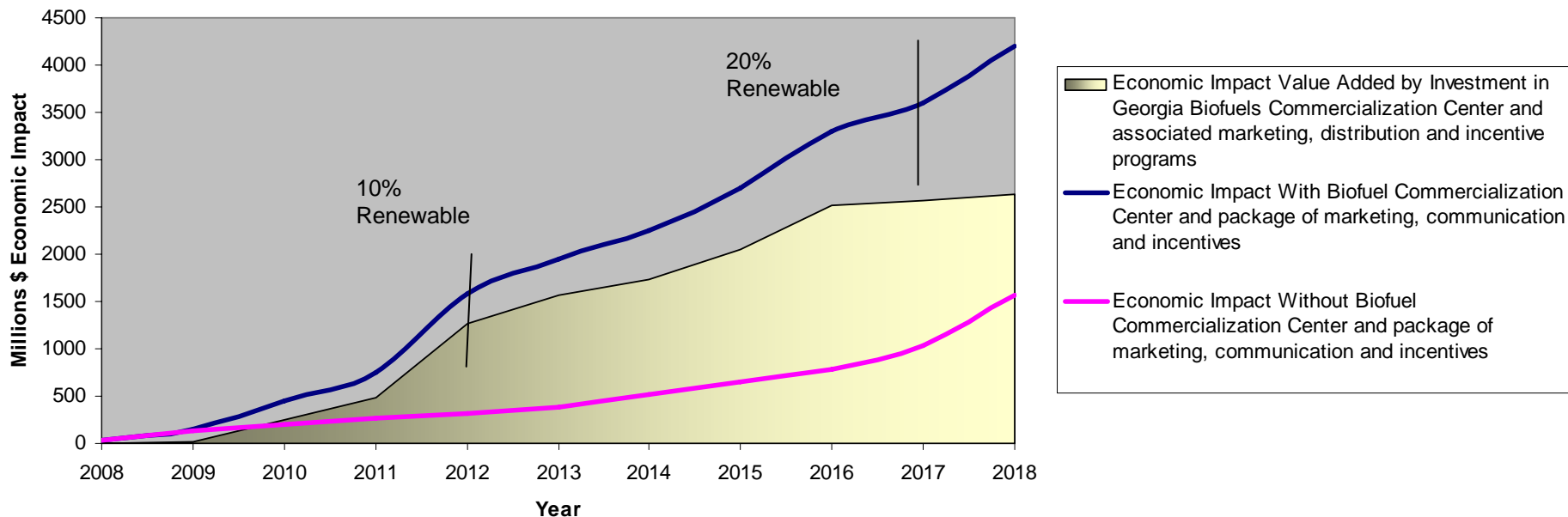


- **Georgia can position itself as a global leader in commercializing cellulose fuels.**
- **We have the basic forest resource the logistics the technical skills and industrial scale up expertise to rapidly build a new \$5 Billion industry in Georgia over the next 10 year.**
- **Locally grown, locally converted and locally consumed.**
- **Providing**
 - **Economic benefit to rural Georgia,**
 - **Significant environmental benefit to urban Georgia**
 - **Strategic energy self sufficiency to all Georgia.**
- **Focused investments to strengthen and expand our States' capabilities will be required to maximize the economic benefit available.**
- **10 Year Deliverables**
 - **\$30 Billion State economic impact from Forestry**
 - **60,000 new jobs**
 - **20% gasoline replaced by locally produced fuels**
 - **30 new fuel production facilities in rural Georgia**



Georgia can accelerate the speed, scale and value of a new set of bio fuels industries by investments designed to accelerate the implementation of decisions to build new plants and operate them at peak production.

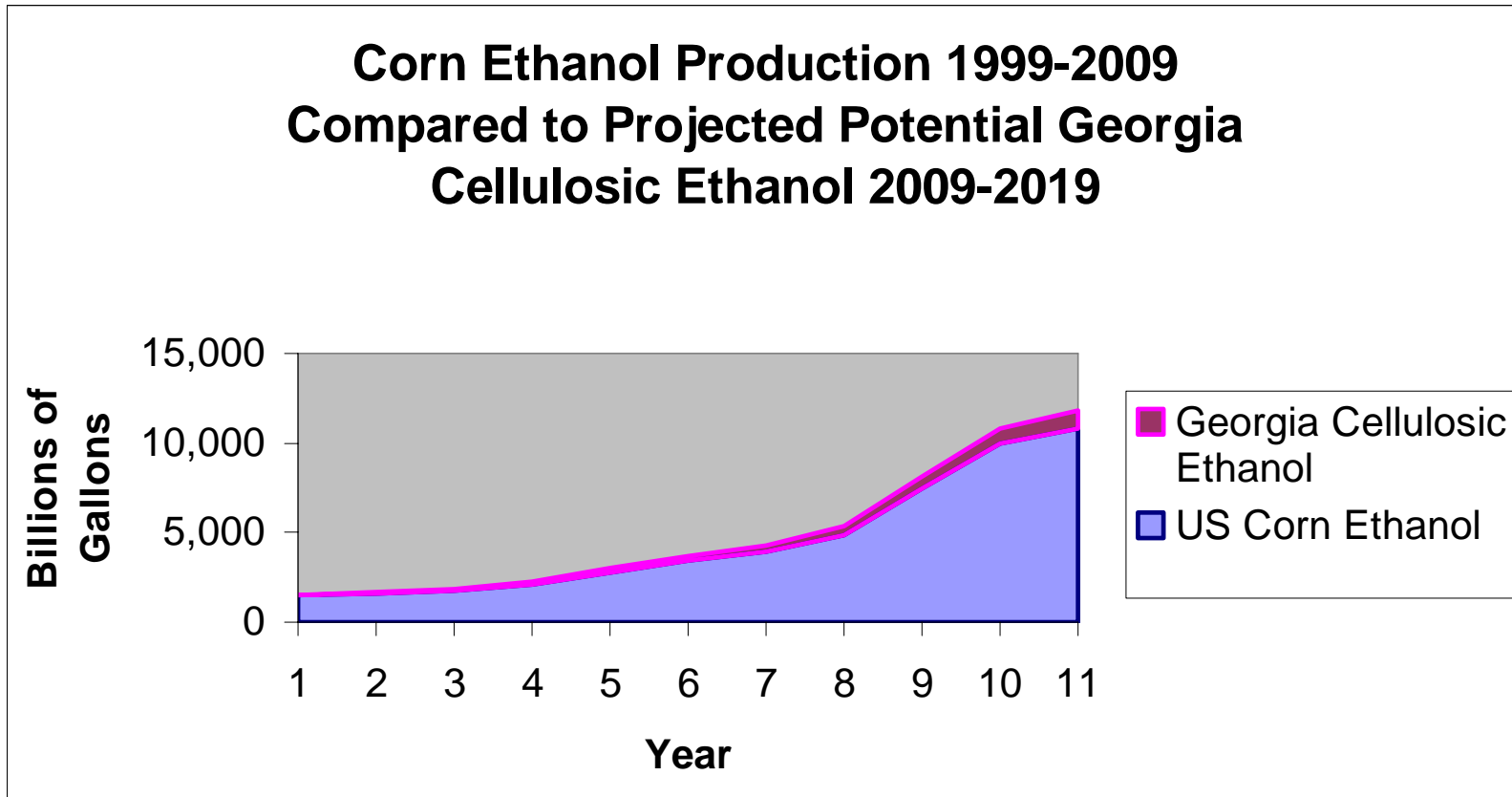
Georgia Economic Value Added by Accelerated Commercialization





With good access to feedstock, robust proven and scalable technology and good economics the ethanol industry has proven it can develop very rapidly.

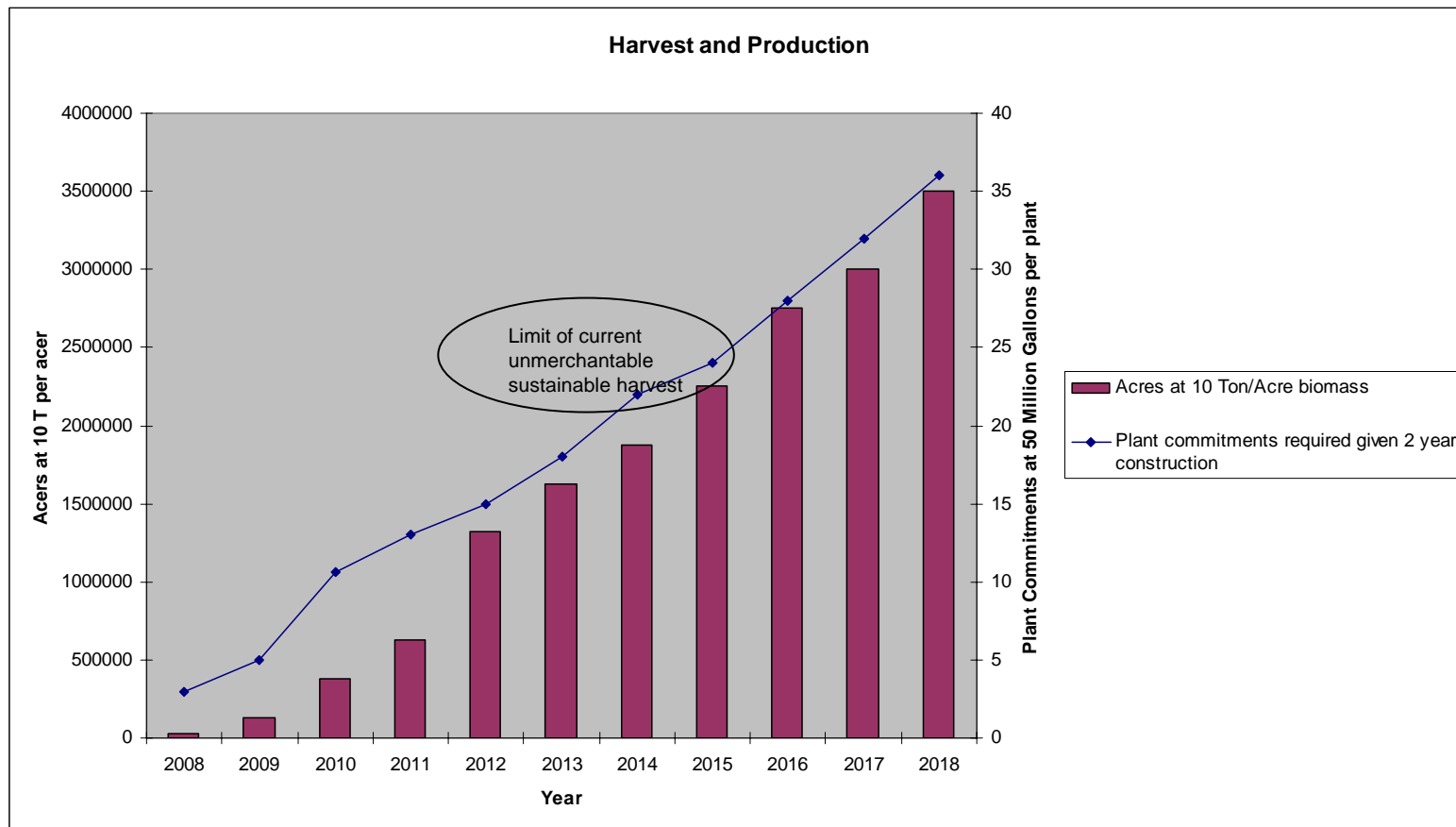
In ten years the corn ethanol industry in the mid west US grew to a similar economic impact as the entire Georgia Forestry Industry





Building a new \$5 Billion Industry in 10 Years – Speed will be key

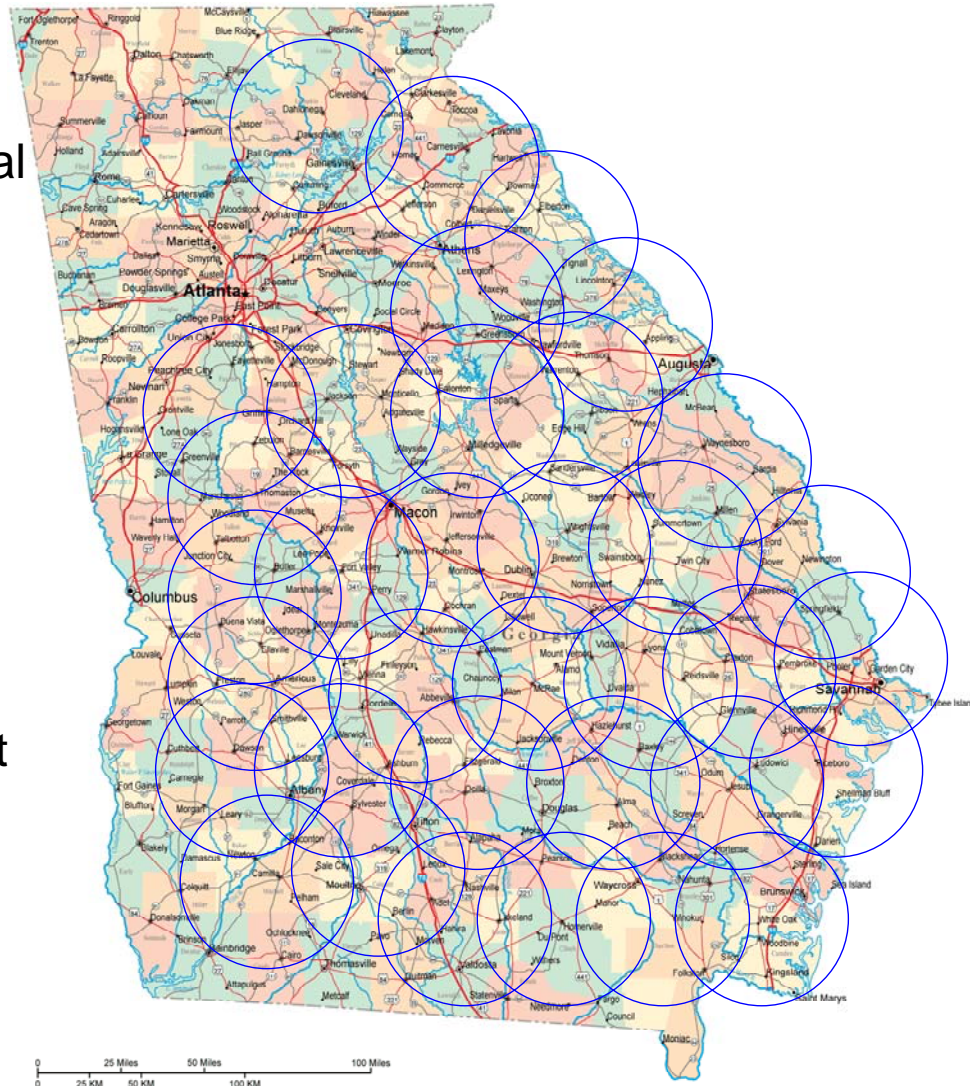
Industry will need to think of Georgia as the first place they would go to build a new facility. They will need certainty of financing based on industrial scale proven processes, raw material costing and supply. On going R&D breakthroughs, distribution and sales channels and fast permitting.





Bio based fuels could
change the face of rural
Georgia

Illustration only – 35
cellulose ethanol
plants producing 50
Million gallons with
\$100 Million capital
investment each at at
50 mile radius





Recommendations

- **Support the implementation by the Georgia Environmental Facilities Authority of the renewable fuels recommendations of the State Energy Strategy.**
- **Continue to invest in the states academic institutions as they develop new innovative and cost effective technologies for biofuels production.**
- **The development of the “Georgia Biofuels Commercialization Center”**
 - **A new high visibility industrial recruitment and commercialization strategic State asset.**
 - **A new fee for service facility with cost effective pilot production equipment and expertise**
 - **Existing forestry industries and new cellulose fuel companies have expressed the need and willingness to pay for access to such a facility**
 - **Follows the proven Herty model of technology scale up and commercialization demonstrated for 70 years in the Georgia Forest industry by expansion of this capability to include biofuels.**
 - **“Georgia Biofuels Commercialization Center” will draw in global best practices and technologies making Georgia the place to come to build and world class, competitive and profitable biofuels production facilities.**