



SAVING ONE ACRE AT A TIME



Energy, Ecosystem, and Wildlife Currently at Odds







The New Way with Roeslein Alternative Energy

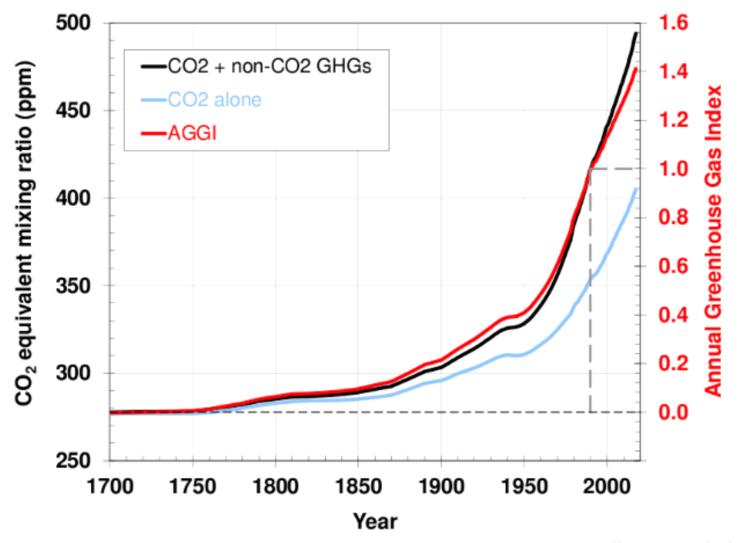






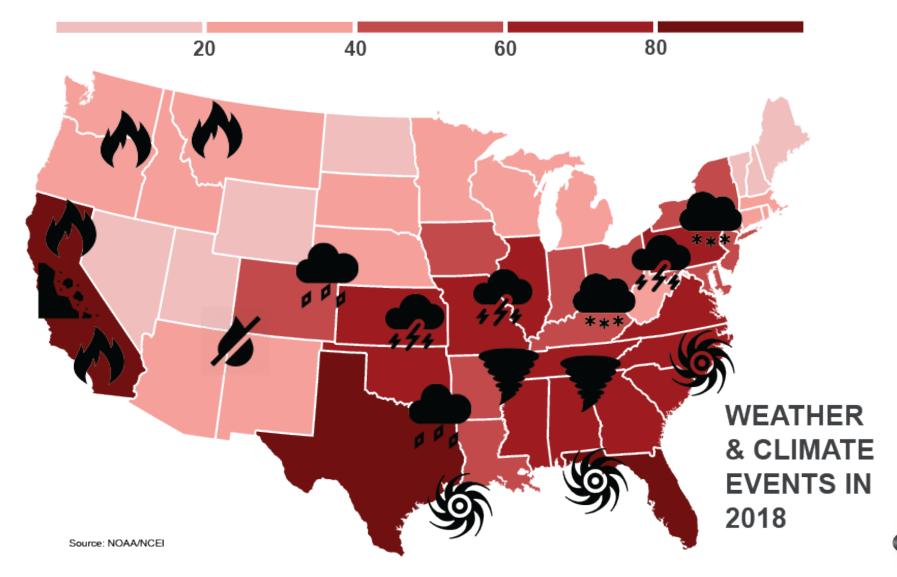


Annual Greenhouse Gas Index

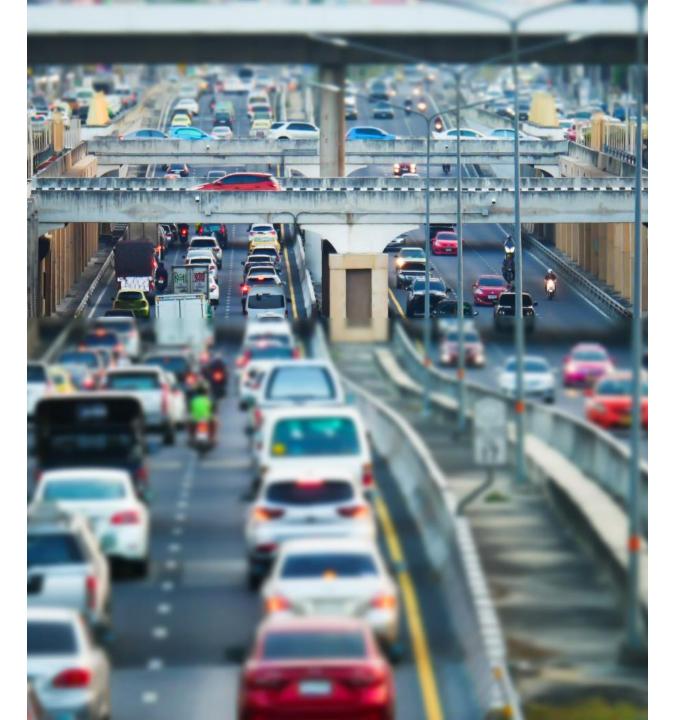




BILLION DISASTERS





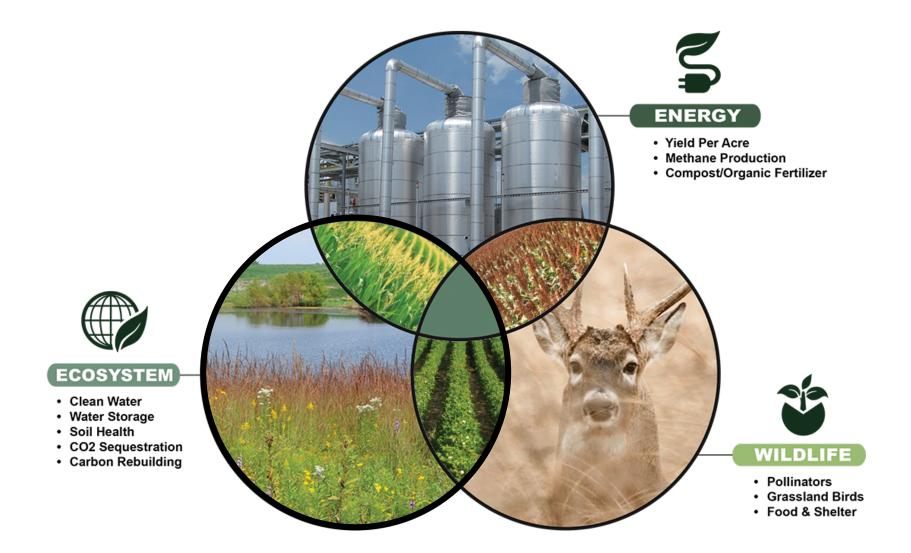


Population Growth to 9.6B by 2050

- Increasing amount of stress on our landscape
- Planet is facing competing demands
- Erosion, soil degradation, and water problems arising
- Climate and weather patterns changing
- Our planet is in need of help, so what can we do?



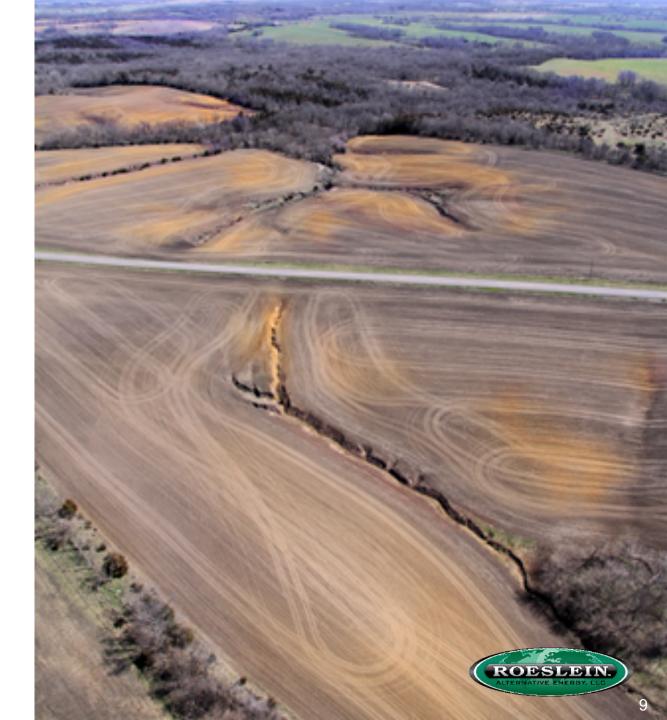
A New Way with Roeslein Alternative Energy



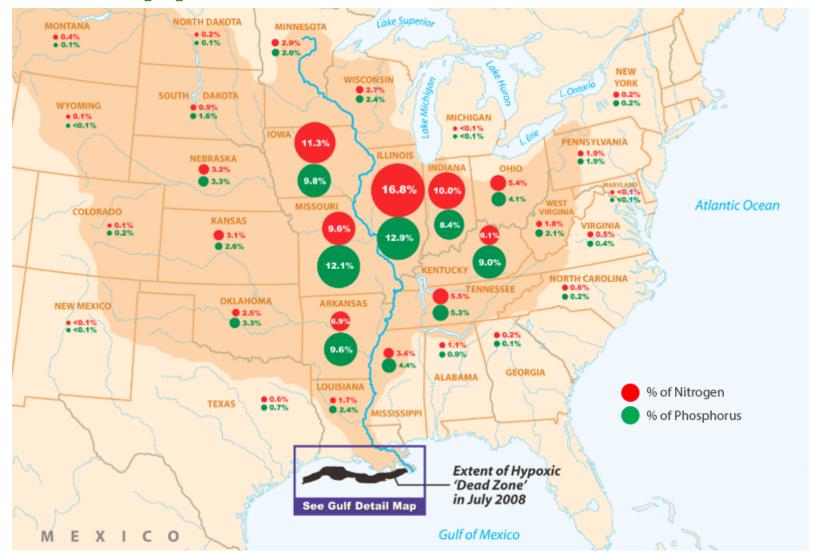


Annual Cost of Soil Erosion

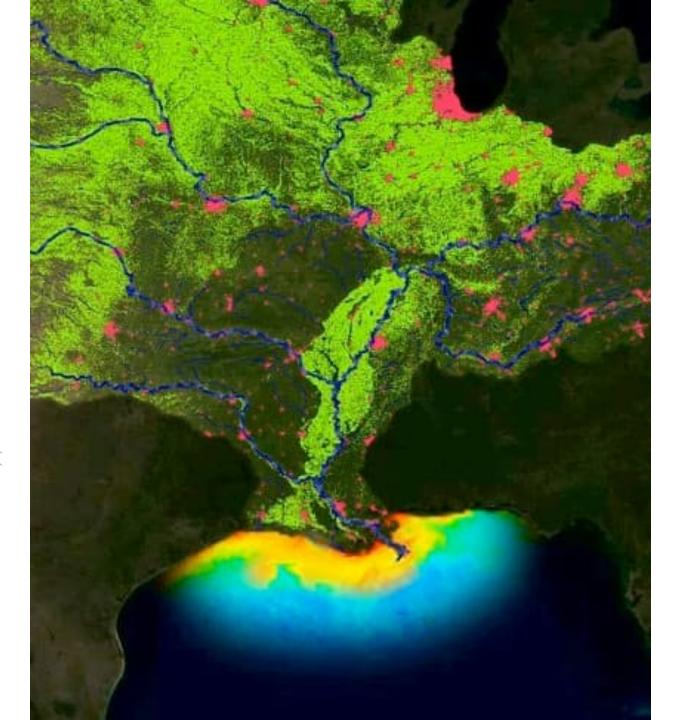
- U.S. Cropland Soil Erosion =
 5.6 tons / acre
- U.S. Total Soil Erosion Cost = \$44B / year



Mississippi River Basin Runoff







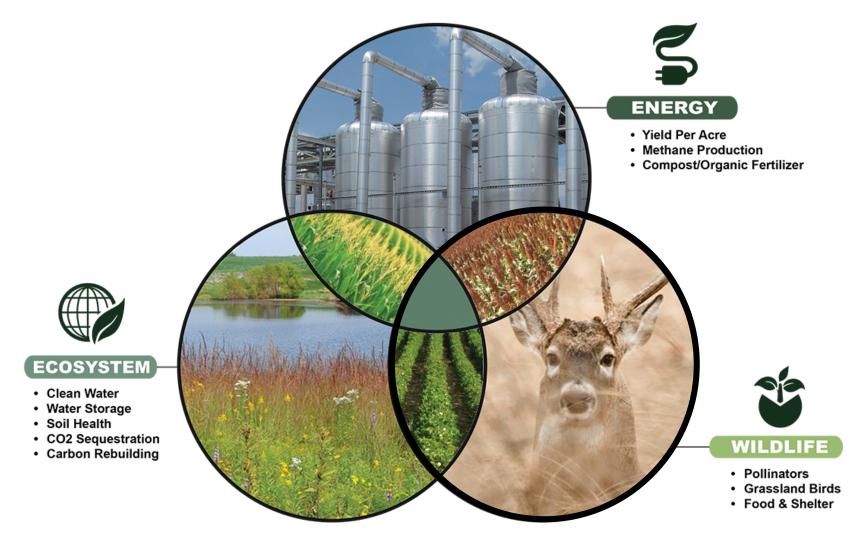
Negative Economic Impact with Hypoxia

- \$350M fishing expenditures
- \$350M boating expenditures
- \$1.5B property value losses
- \$44M for conservation plans
- \$813M for bottled water due to taste/odor issues
- Significant impact on \$1.6 Trillion
 Outdoor Industry





Energy, Ecosystem, and Wildlife Objectives in Balance



Wildlife and Habitat Crisis

- Nature is declining globally at rates unprecedented in human history
- 1 million animal and plant species face extinction in the coming decades
- Nearly 40% of all species require urgent conservation action
- Native species in most major landbased habitats have fallen by at least 1/5 in 100 years



Endangered Species Act (ESA)

- 1,600+ endangered and threatened animals and plants on the list
- 1.5 billion annual costs associated with administrating the ESA
- Burdensome and costly regulations for industry and landowners
- Broad economic impact of hundreds of billions annually
- Prairie Chicken listing estimated at 5.6 billion annual economic impact

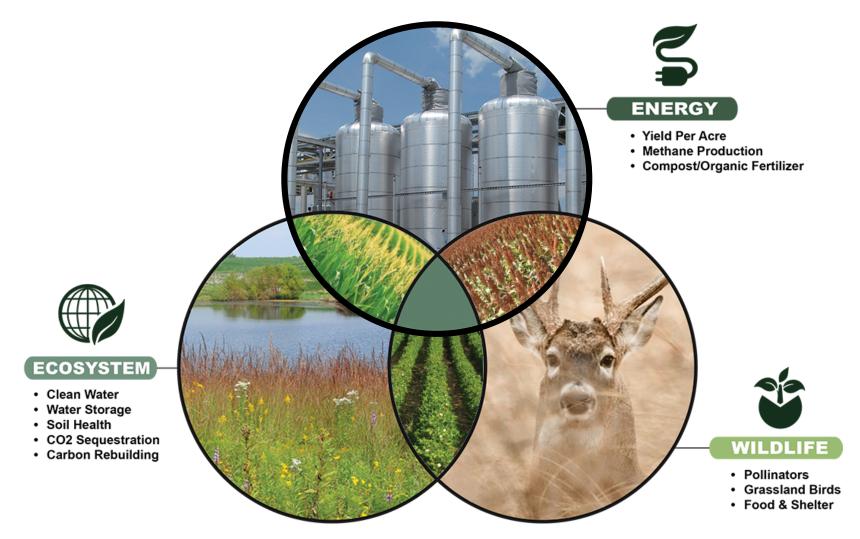


RAE Wildlife Benefits

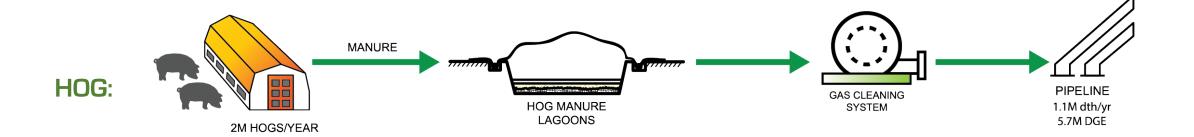
- Restored native habitat for prairie and grassland species
- Improved water quality for aquatic species
- Increased nutrients in soil supporting life underground
- Supports \$40 billion worth of pollinated products annually



Energy, Ecosystem, and Wildlife Objectives in Balance



Northern Missouri Anaerobic Digestion of Manure

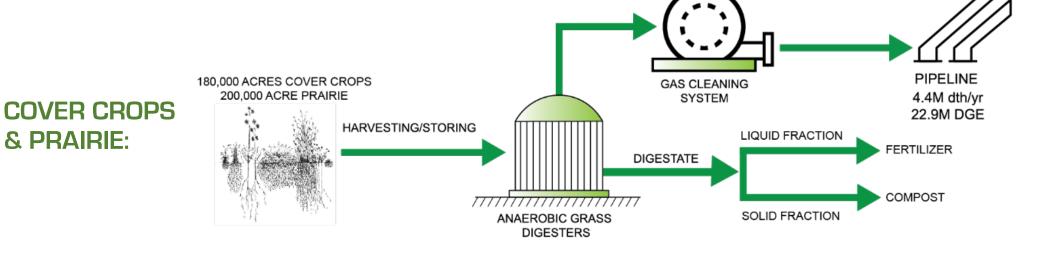


BENEFITS:

- Separation of rain water from manure
- Reduced odor and volatile organic compounds (VOC)
- Production of renewable biofuel
- The solid fraction of the digestate is used as soil amendment.



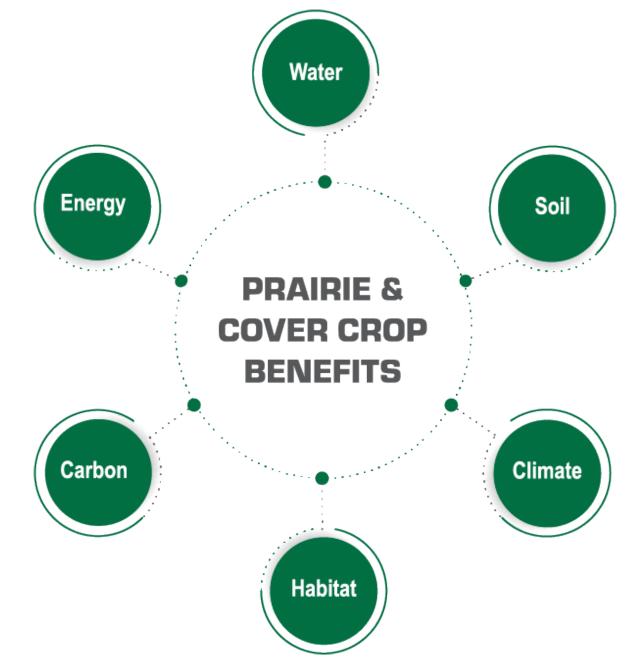
Northern Missouri Anaerobic Digestion of Cover Crops & Prairie



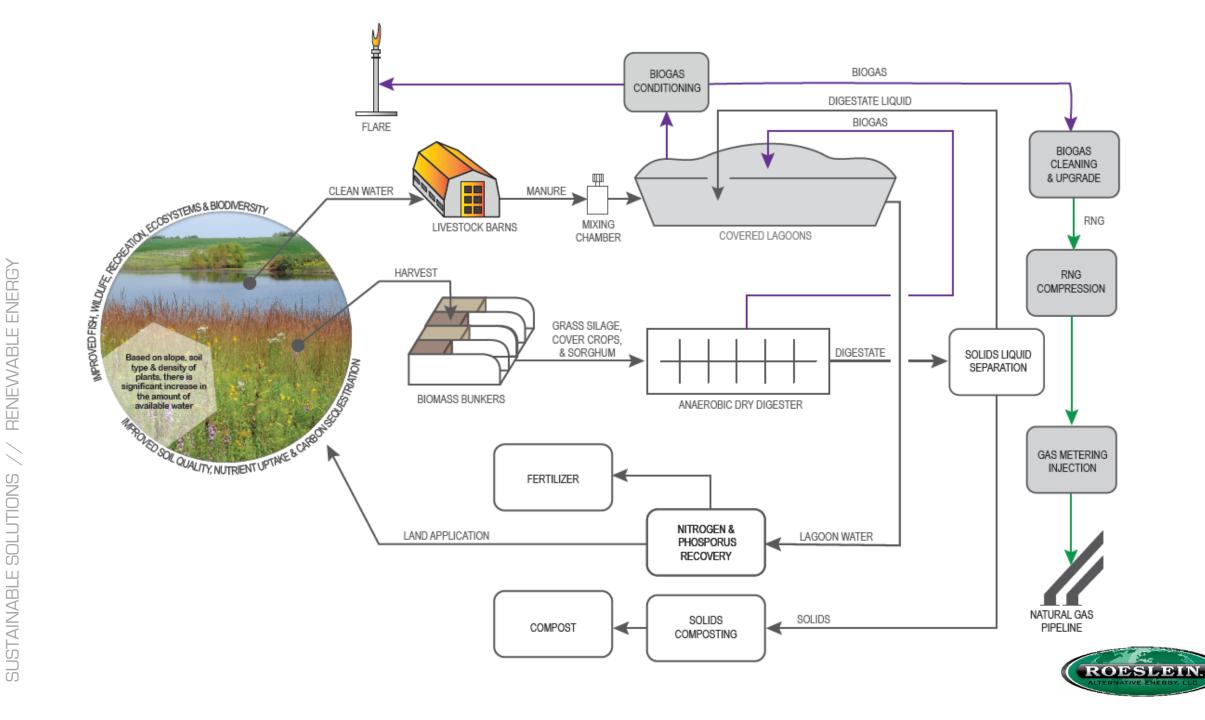
BENEFITS: Ecological Services



Eco Services

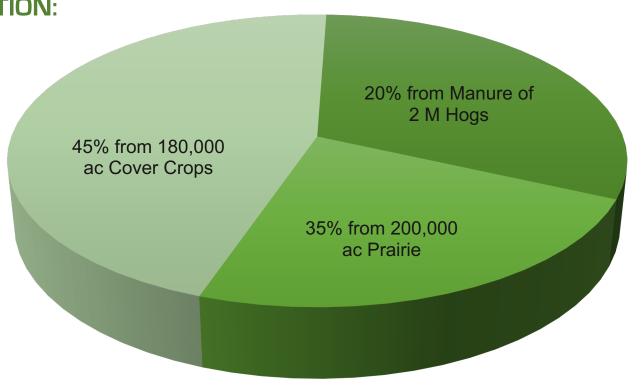






Northern Missouri Ag Potential of 5.5M dth/year

SOURCES OF ENERGY GENERATION:

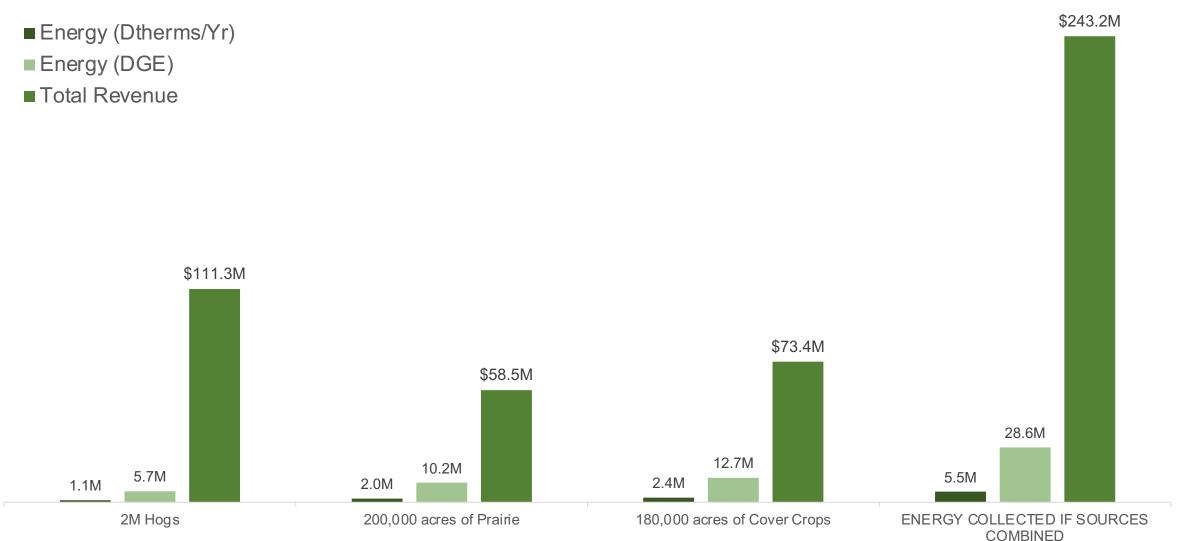


REVENUE POTENTIAL OF \$243M

EQUIVILANT TO REMOVING 29M DIESEL GALLONS

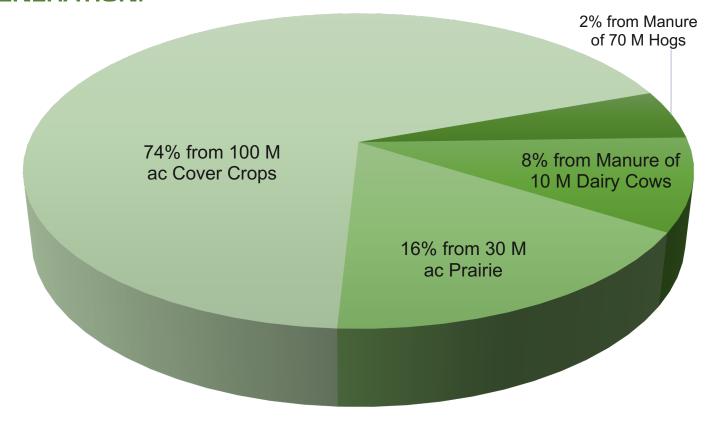


Northern Missouri RNG Diesel Gallon Offset



US Ag Production Potential of 1.8B dth/year

SOURCES OF ENERGY GENERATION:

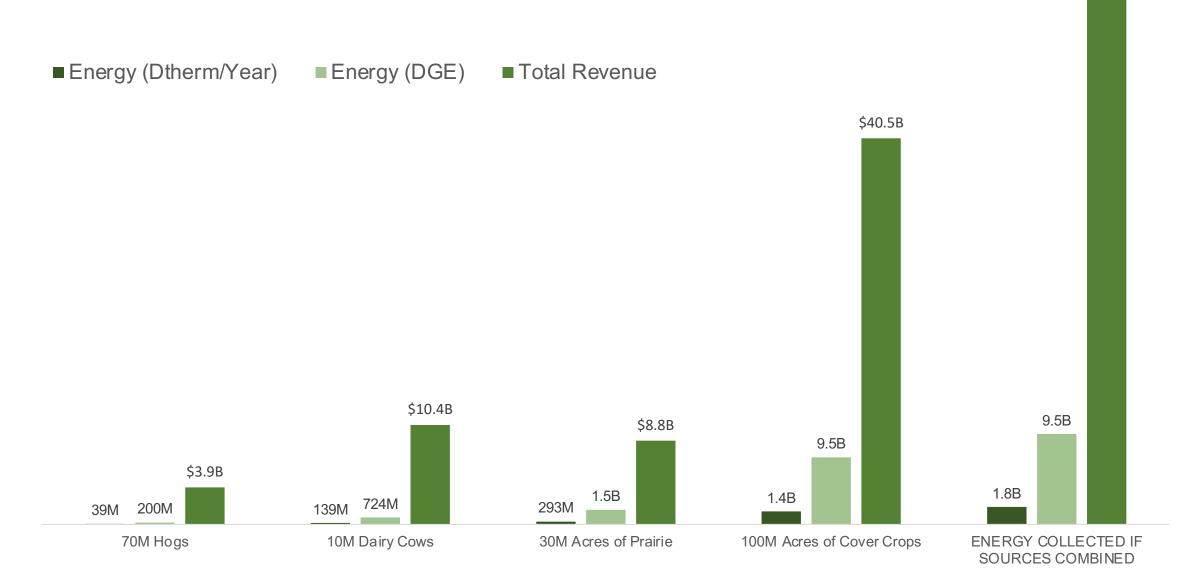


REVENUE POTENTIAL OF \$63.6 B

EQUIVILANT TO REMOVING 9.5B DIESEL GALLONS

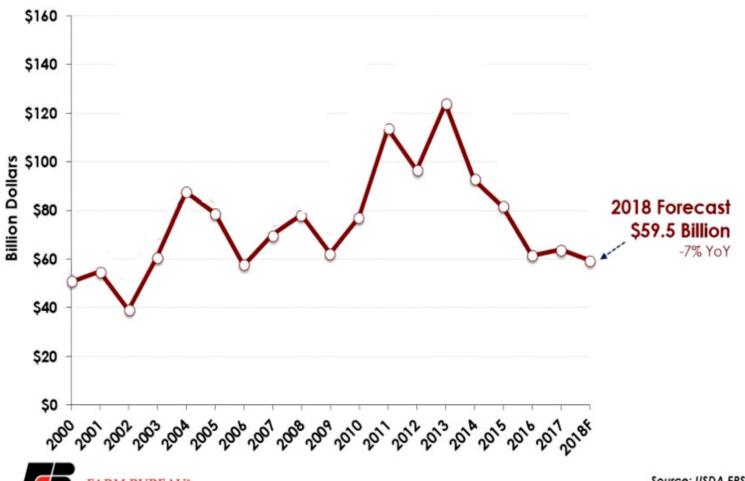


US RNG Diesel Gallon Offset

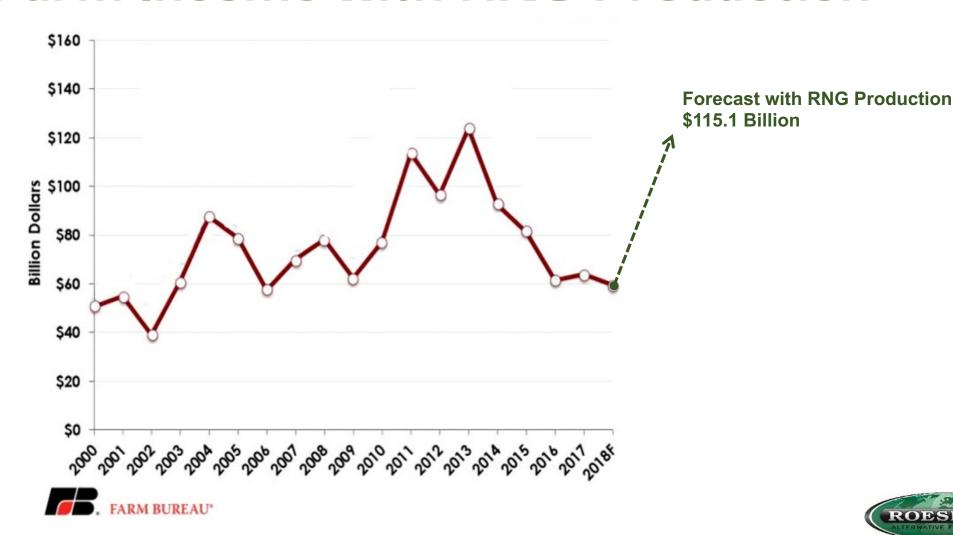


\$63.6B

Net Farm Income

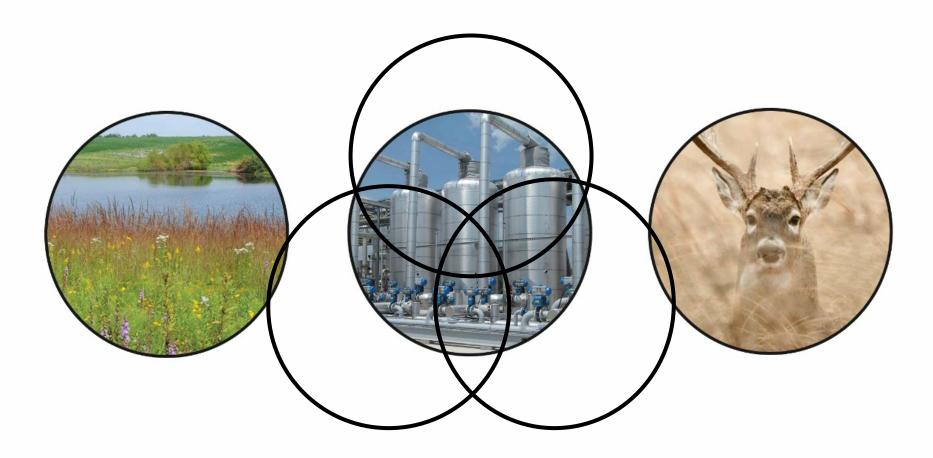


Net Farm Income with RNG Production





The New Way with Roeslein Alternative Energy



Combining Energy, Ecosystem, and Wildlife for a Sustainable Solution

Thank You



