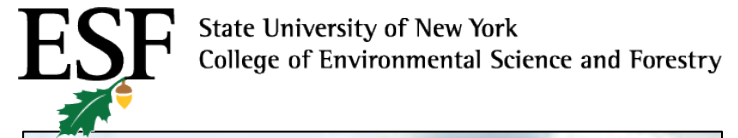


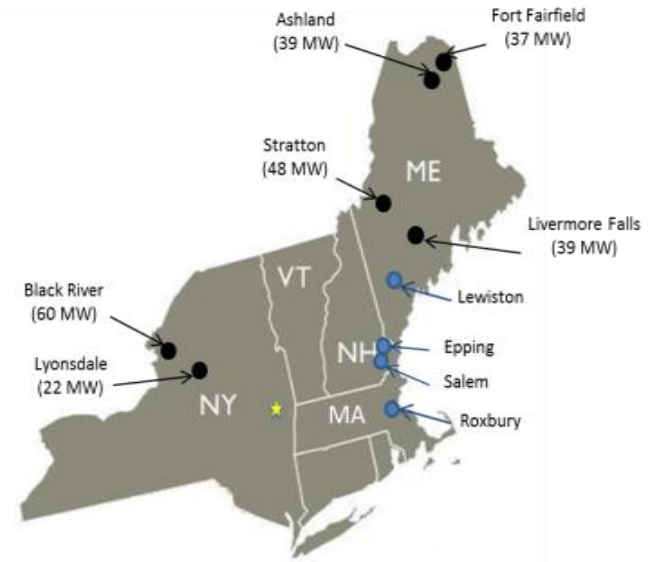
BCAP Project Area 10: New York Willow



**Presentation to:
Environmental & Energy Study Institute &
Ag Energy Coalition
April 4, 2018**

ReEnergy:

- Largest pure-play biomass power company in U.S. HQ Latham, NY
- ~ 300 employees; 4 states
- 245 MWs of renewable energy generation



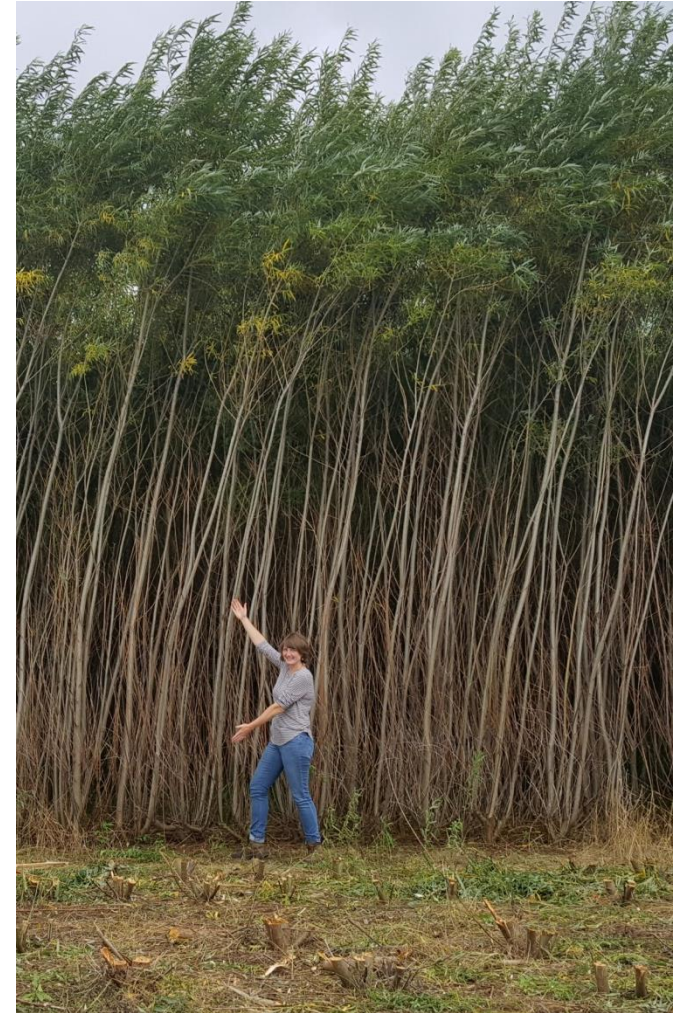
College of Environmental Science & Forestry:

- 30+ years experience with willow
- Part of State University of NY
- Environmental college with 1,700 undergrads & 500 grad students



BCAP Commercial Willow Production

- USDA designated a BCAP project area in central and northern NY in 2013 to support expansion of shrub willow biomass crops on marginal land
- ReEnergy committed to purchase all of the willow over an 11-year period.
- Currently 1,188 acres in three counties are enrolled and more than 8,500 tons of willow delivered to ReEnergy from 2013 through Feb. 2018.
- Willow found to be suitable fuel in terms of moisture and ash content, now incorporated directly with other feedstocks upon delivery.



Three-year-old willow

Project Benefits

- Overcomes barriers of high upfront costs and delayed cash for growers
- Creates stable, long-term end markets
- Advances research and deployment
- Provides fuel diversity benefits for ReEnergy
- Supports jobs and rural development
 - 45 – 59 jobs for every 10,000 acres
- Creates environmental benefits
 - Carbon-neutral; wildlife habitat
- Revitalizes idle or marginal lands
- Provides extension services
- Creates opportunities for companies to engage (e.g. New Holland Agriculture)



BCAP in Western U.S.

- BCAP also funds the collection and transportation of biomass material to biomass power plants
- Forests in the Western U.S. are facing crises – drought, beetle blight, overgrowth. 100+ million dead and dying trees in California forests alone
- BCAP enables a public/private partnership to remove the dead and dying trees (also known as hazardous fuels) and put them to use as fuel to generate power
- Fully funding BCAP can help reduce catastrophic wildfires and save \$ spent fighting them



Sierra National Forest

Thank You!



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