New England Regional Council on Forest Engineering

Economic Trends in the Northeast Forest Industry

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Innovative Natural Resource Solutions LLC



- Founded in 1994
- Offices in New Hampshire and Maine
- Focus at the intersection of forest industry, energy and economic development
- Services include:
 - consulting in renewable energy
 - forest industry consulting
 - advocacy
 - forest certification and sustainability
- Clients from the private, non-profit and government sectors
- Conducted work in all regions of North America
- www.inrsllc.com

Maine Timber Harvest by Product (2010 – 2017)





Volume and Value to Landowner of Products from a Timber Harvest Maine, Statewide, 2014





Housing Starts (past 20 years)



Housing Starts (past 10 years)



Lumber Markets – The Bubble Has Passed



http://markets.businessinsider.com/commodities/lumber-price

A growing issue for (softwood) mills...

- As markets build and production climbs...
- More residue (chips, sawdust, bark) is produced
- Markets for this residue have shrunk, and this is a danger sign for a healthy industry
 - Old Town to relieve some concern re chips
 - What to do with a half million tons of bark each year?





Cross Laminated Timber







Maine Wholesale Electricity Prices (and Futures) Cost of Fuel, Cost of Fuel plus O&M Shown (estimates)



Maine Wholesale Electricity Prices (Trailing 12 Months) Cost of Fuel, Cost of Fuel plus O&M Shown (estimates)





ReEnergy Partners with Biobased Maine with New Co-Location RFP

By Charlotte Mace | October 18, 2017 | 0 🗩



Biobased Maine will be administering the RFP, which can be accessed here: ReEnergy RFP

Biobased Maine's role in this partnership is to assist in finding the most viable and commercially relevant technologies to co-locate at ReEnergy's

Today, at the National Biomass Energy Day event in Fort Fairfield, Maine, ReEnergy and Biobased Maine announce a partnership to seek technology

for co-location at one or all of ReEnergy's biomass-to-energy facilities in Livermore Falls, Ashland, Stratton, and Fort Fairfield Maine.

four Maine facilities and use wood, electricity, and other site-specific assets available there to manufacture new products. Examples of industries which could co-locate with ReEnergy's facilities include biofuels, biobased chemicals, advanced biobased materials, as well as industries such as agriculture, aquaculture, algae, or other technologies that use biomass energy co-products (heat, steam, emissions).



Comparing Heating Costs of Different Fuel Types

Fuel price (dollars per million Btu)



Source: Maine Energy Office



Maine Pulpwood Consumption by Mill Green Tons (estimated)





If you like Pulp & Paper

New Investment at Woodland Pulp

- 2 new tissue machines
- ~\$150 million in new investment
- Used New Markets Tax Credits
- 70 new employees



FIRST SALEABLE JUMBO ROLL MARCH 16

21

SAPPI Announced Investment

- \$165 million rebuild of PM1 at Somerset Mill
- \$25 million in new wood yard (completed)
- Clearly investing in the future of the mill, New England's largest market for low-grade wood





ND Paper to Re-Start Old Town Mill



- Major (much needed) softwood market
- Announced 100+ jobs in the mill
- Lots more jobs in the woods and in trucking
- Use of regional chip mills for supply



Emerging Industries

- Maine Technology Institute recently initiated funding for emerging forest industries looking to expand or locate in Maine
 - \$1.5 million in funding (up to)
 - A number of interesting proposals currently under review
- Companies have been looking at Maine for biofuels, biochemicals, cross-laminated timber, nano-cellulose, woodbased insulation...
- FOR/Maine has been active in identifying and now recruiting
 - Other (allied) efforts as well

What Concerns Me...

- Age of Maine's Logging Workforce
- Markets for Biomass / Residues
- Federal Rules for RFS Qualification
- Forest Products Trucking Capacity
 - Quit making trucks wait in line
- Speed (or lack thereof) of innovation / technology adoption in the Industry

Age Distribution of Maine Loggers



Data Source: Maine Logger and Log Trucker Employment Availability and Wage Analysis Report, 2019



The Markets



We're Going to Be Fine...

- We have **markets**, and are incredibly well positioned compared to other parts of the country
- We have the **forest resource and supply infrastructure** (landowners, loggers, entire forest industry ecosystem) that would make other regions jealous
- We live in close proximity to (and are part of) the greatest collection of consumers in the history of the world
- There may never be a better time to be develop a project or technology that uses low-grade, particularly softwood



I would like to add you to my email lists





Send an email to <u>kingsley@inrsllc.com</u> to be placed on our monthly email list, which provides information on markets and developments of interest to the region's forestry community. I will also add you to my FRA email list, and you will receive invitations to monthly dinner forums and other regional information.

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