WOOD INNOVATIONS PROGRAM
USDA FOREST SERVICE

Julie Kies, Wood Innovations Coordinator, Northern and Intermountain Regions
MISSION AND SERVICES
WOOD INNOVATIONS PROGRAM, R1 AND R4

Mission:
Develop and expand the use and manufacture of wood and biomass products.

Focus:
Building with wood, renewable wood energy, traditional and emerging markets.

Services:
• Provide information and expertise.
• Administer Wood Innovations Grants.
• Track technologies, markets, entrepreneurs, and innovators.
• Match-making to foster partnerships and project development.
URGENT CHALLENGES

- Catastrophic wildfires
- Communities at risk
- Degraded watersheds
- Epidemic proportions of insects and disease
- Climate variabilities
ADDRESSING THE CHALLENGES

Harvest trees. Use fire as a management tool. Replant trees. Collaborate.
Our Approach to Responsible Forest Management and Timber Harvest

Forest plans and projects informed by teams of resource specialists and engagement with public, partners and stakeholders.

- Governed by laws, rules, regulations.
- Apply best available science.
- Collaborate.
- Open and transparent.
- Responsible practices.
- Replant trees.
- Monitor.
- Be adaptive.
RENEWABLE WOOD ENERGY INSTALLATIONS

Source: www.wood2energy.org
RENEWABLE WOOD ENERGY PROJECTS

Townsend School, MT

Mineral Community Hospital, Superior, MT

Bridger Bowl Ski Area, Bozeman, MT

Darby School, MT
DROP-IN COAL REPLACEMENTS: TORREIFIED AND HYDROPHOBIC

AEG CoalSwitch torrefaction technology, Utah. Co-fire test burn planned in Utah coal-fired power plant, 2019.

Chemical drying of microchips and pellets. DRYMAXZ System, Biofibre, BC. USFS grant assisted scoping technology for adoption in Idaho.
GREEN BUILDING AND MASS TIMBER
Idaho Central Credit Union Arena, Univ of Idaho, Moscow

Mass timber buildings in design or construction, June 2018.
MASS TIMBER: MANUFACTURING IS EXPANDING

*Operating plants

**Plants under construction and/or announced

**Vaagen Timber, WA
*Katerra, WA
*SmartLam, MT
*Freres, OR
*DR Johnson, OR
*Euclid, UT

**SmartLam, ME
**LignaTierra, ME

**Texas CLT, AR
*International Beam, AL

**Sterling Lumber, TX
TECH GIANTS ARE BUILDING BIG WITH MASS TIMBER

AND...Architects, engineers, and thought leaders are excited about the benefits of using wood in our built environment and engaging in the conversations about forest management.
OTHER VALUE-ADDED PRODUCTS
HIGH VALUE CHEMICALS AND ESSENTIAL OILS

Flavoring and fragrances.
Blue Marble Biomaterials, Missoula, MT

Essential oils from Juniper.
Young Living Farms, Mona, Utah
BIOCHAR

Mobile pyrolysis unit. Amaron Energy, Utah.

WOOD INNOVATION GRANT RECIPIENTS REGIONS 1 AND 4

**Wood Products**
- University of Nevada Reno
- University of Idaho, Moscow, ID
- SmartLam, Columbia Falls, MT
- Wooden Haus Supply, Whitefish, MT
- Northern Cheyenne Tribe, Lame Deer, MT
- Marks Lumber, Clancy, MT
- Montana Wood Promotion Team, MT DNRC
- E.CA/W.NV Wood Innovation Team

**Wood Energy**
- Moonlight Basin Ski Resort, Big Sky, MT
- University of Idaho
- Idaho Youth Challenge Academy
- Montana SWET, MT DNRC
CONTACT

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