

Biomass

UZELAC
INDUSTRIES INC.
DRYING SYSTEMS



Although many substances such as agricultural crops and waste materials can be burned for fuel, the most common biomass used for fuel is wood and wood processing wastes.

Uzelac dries dry wood chips, sawdust, and wood shavings to be used in the timber industry for such things as OSB, particleboard and wood pellets. In some installations, some of the dried wood from the Uzelac rotary dryer is brought back to a solid fuel burner and burned to heat the rotary dryer to dry additional wood waste, eliminating the need for a natural gas line for the rotary dryer.

In 2016 Uzelac added employees from the former M-E-C and opened a location in Neodesha Kansas to add to their wood drying expertise.

Examples of Biomass we've dried in the past include:

- Clary sage brush
- Bakery waste
- Sugar Cane Bagasse
- Algae
- Fruit and vegetable waste
- Rice hulls
- Wood chips
- Paper waste
- Kelp
- Wood waste
- Hemp

Majestic Valley Pellets

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Project Location: Alamosa, CO	Project Completion Date: February 2020	System Size: SPD-6000BB	Finished Product: Wood Chips
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Majestic Valley Pellet reached out to Uzelac Industries to help modify their current wood chip drying system to increase its output.

The existing system was a fluidized bed dryer getting heat from a solid fuel burner.

Uzelac was able to modify the system by replacing the fluidized bed dryer with a rotary drying drum. This more than tripled the final product output for Majestic Valley. Uzelac was able to reuse the existing biomass burner and dust cyclone providing Majestic Valley a cost-competitive way to increase their production.

The drying system is drying wood chips down from 45% moisture content to 10% moisture content to allow for pelletizing.

"Uzelac was able to understand my needs and provide a custom solution that was cost effective"

- Jeff Fringer, President Majestic Valley Pellets

