

# **Boulder County Biomass**

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# BCPOSTC Heating Plant

## *FAST FACTS*

- BCPOS manages ~ 30,000 acres forest land
- 80 – 200 acres annually in either fuels reduction or forest restoration treatments
- Produce approximately 20-25 tons of total woody biomass per acre
- Currently exploring additional avenues of utilization

A man in a dark green jacket and khaki pants stands in a field of wood chips. Behind him are two large, conical piles of wood chips. The background is filled with tall pine trees under a clear sky. The text is overlaid on the right side of the image.

**....now what  
do we do with  
it?**

# **BCPOSTC Heating Plant**

## ***FAST FACTS***

- Operational 05/06 heating season
- Currently heats ~ 95,000<sup>2</sup> ft
- Includes 5 buildings – hot water distribution system
- Cost of Messersmith system, \$260,000.
- Total cost of system ~ \$1.5 million

# BCPOSTC Heating Plant

## *FAST FACTS*

- Consume 600-700 tons per heating season
- All processing is done in-house
- Only utilize 17 – 43% of annual biomass production on POS properties

# BOCO Biomass Heating Plant



# Chip bin



bin auger





auger motor/auger

primary conveyor



# metering conveyors

conveyor

metering box

vertical lift conveyor



# metering & stoker augers



# Boiler Room

gas backup boiler

woodchip boiler





The background of the slide is a dense field of light-colored wood chips, likely from a sawmill, scattered across the entire frame. The chips vary in size and orientation, creating a textured, natural-looking surface.

# **Biomass Processing &** **Transport**

**..... or how do we get it from  
there to here?**











# **BCPOSTC Heating Plant**

## ***LESSONS LEARNED***

- Its all about the chips!
- Insure that everyone is on board
- Facilitate excellent communication
- Plan for adequate resources & capital
- Storage is important
- Maintain a sense of humor!!

# ..... Questions?

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