

Mariposa Biomass Project

Steve Smallcombe & Jay Johnson
www.mariposabiomassproject.org

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MISSION STATEMENT

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Mariposa Biomass Project will establish an economically viable facility to reduce the impact of wild fires on public and private lands, enhance public safety and encourage healthy forests by converting locally harvested wood waste into marketable electricity and biochar.

Our Team

- Engineering: Jay Johnson, Max Lee
- Fuel Reduction and Forest Management: John Schroeder, Gary Francisco, Russ Backhop and Al and Carlene Anderson
- Science and Environmental impact: Steve Smallcombe, Len McKenzie
- Grants: Christina Oborn
- Finance: Suzette Prue

Milestones

- September 2014 Pre-Application PG&E Interconnect (Mariposa Sub)
- January 2015 Formed a 501c3 Non Profit
- February 2015 Grant for the Fuel Feasibility Study
- August 2015 Completed Fuel Feasibility Study
- October 2015 Pre-Application PG&E Interconnect (Bear Valley)
- January 2016 Applied for Wood Innovations Grant
- March 2016 Selected Cortus Energy to Build, Own and Operate the Facility

Technology

- Selected Gasification over Combustion
- Combustion Systems generally utilize a high pressure boiler, steam turbine generator and cooling tower or air cooled condenser, require boiler operator
- Gasification systems generally use a gasifier and a reciprocating engine generator, produces biochar
- Primary Driver: Biochar and carbon sequestration

Gasification Technology

Cortus Energy

- Fuel Size Flexibility
- Intergral Drier
- Cleaner Gas to Engine Generator
- Higher Availability
- Reduced Staffing Requirements
- Modular Construction
- Flexible Biochar Production

Looking Ahead

- Site Control
- Permitting
- PG&E Interconnect Study
- Fuel Contracts
- Financing
- EPIC Grant

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