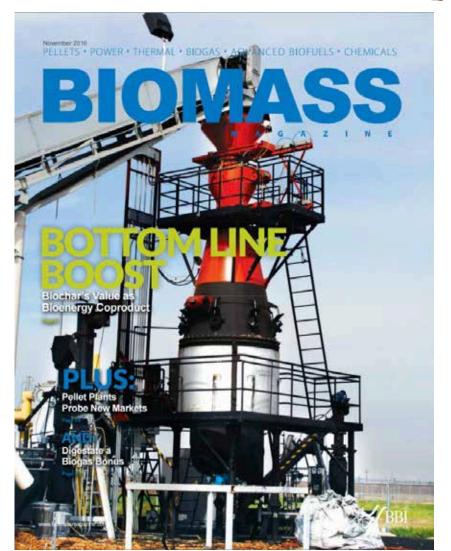
Turning Biomass into Energy since 2011

- Phoenix Energy is "private label" power
- We are local³
- Building plants since 2011
- We believe modularity & continuous processing to keep quality up & costs low
- And we are no longer just an energy company...



Who we are

PHOENIX ENERGY[™] Calistoga Electric Company



Biomass Trifecta



Investment project

1 MW Biomass Gasification Facility at Clover Flat

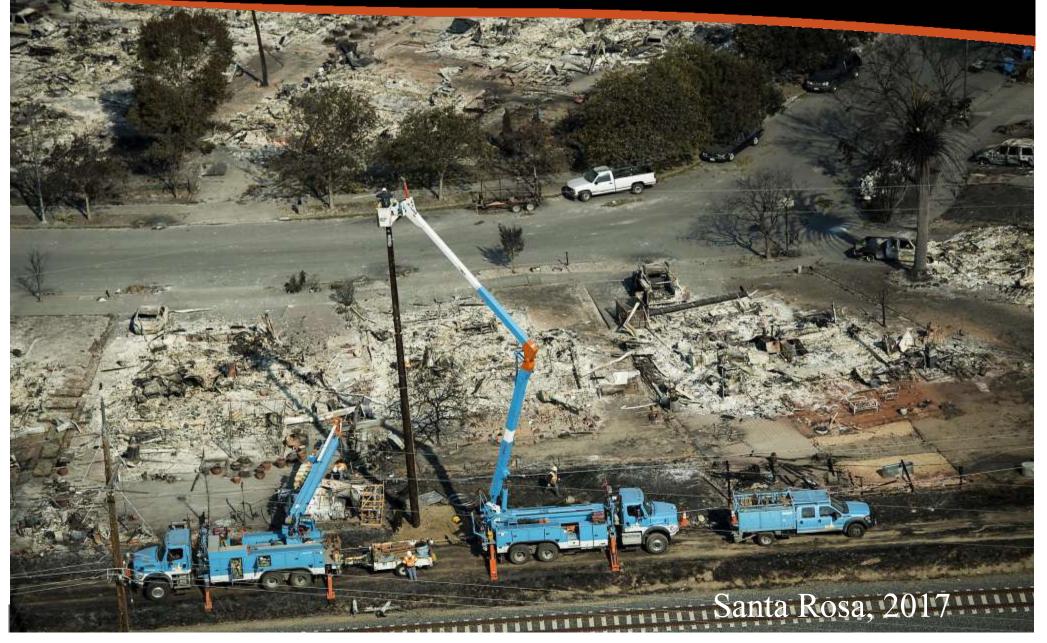
- UVDS will own and operate a 1 MW biomass plant at Clover Flat Landfill
- UVDS will sell electricity to PGE under a 20yr. BioMAT contractat 12.772¢/kWh and biochar, a co-product.
- The plant will consume approximately 8,600 tons of wood per year (@10%mc) and produce 867 tons of biochar
- The project is entitled to receive an "Investment Tax Credit" currently worth 30% of eligible CAPEX, if it spends 5% of the budget in 2021
- Embedded options of carbon off-set credits for biochar, and on-site heat sales offer future growth potential plus MACRS 5 depreciation.



Why now?



Why now?



Phoenix Energy[™]

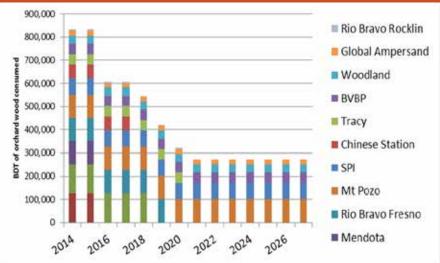
Why now?

Perfect policy storm

- 250MW mandate <3MW
- Diminishing alternatives:
 - Organics diversion law but CA creates massive amounts
 - No ag burning law
 - large biomass plants shuttered & dying off
 - Tree mortality/forest fire emergency
 - National Sword
 - Urgent need to reduce fire danger
- High retail elec 20-30¢/kWh
- Potential of carbon
 - Biochar
 - Carbon sequestration



The twilight of large biomass means no alternative



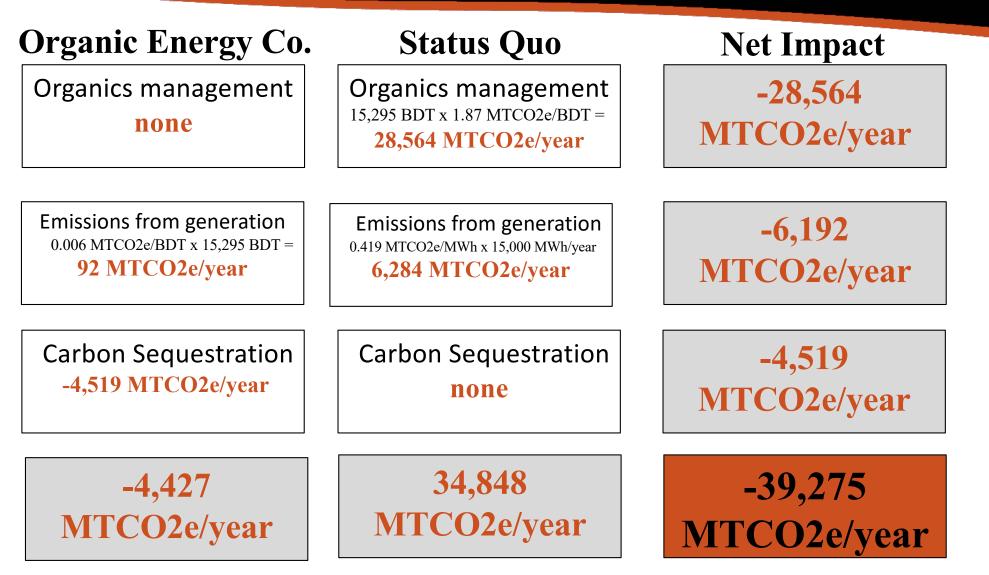
Phoenix Energy[™]

Gasification simplified

- Tech from late 1800s (Gasworks Park, Sac, Gas lamp district in SD)
- Rural electrification 2 moving parts
- Bake it don't burn it!
- Leaves the carbon behind, solid not in the air
- Sell the carbon to save water, grow more fruit, filter water
 © Phoenix Energy



PHOENIX ENERGY[™] Carbon Negative Now - NFCP



PHOENIX ENERGY[™] The biochar opportunity

- By product of gasification is biochar, a product that is about 90% Carbon with about 12,000 BTUs per pound.
- Current prices at Phoenix plant is 79¢/lb (\$1,580/ton) for sale as specialty ag mineral useful in minimizing water/fertilizer usage.
- Additional processing with steam turns biochar into activated carbon. Activated carbon sells at \$1.49/lb (\$2,980/ton).
- While the market for biochar is new it has the potential to eclipse electricity as a main revenue driver.
- Current customers are Napa Valley wine growers, Central Valley citrus & avocados CalTrans, LA County





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