

Project GHG Benefits—loss or gain of C stocks

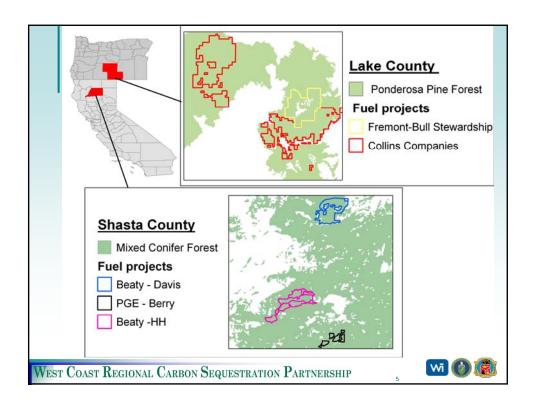
- + Gain from decreased intensity or spread of fire due to fuel treatment
- + Gain from growth differences between with and without project and with and without fire
- + Loss from removal of fuel to biomass energy plant
- + Gain from displaced fossil fuel
- + Loss from removals of fuel to wood products
- + Gain from sequestration in long-lived wood products
- + Loss from decomposition of additional dead wood stocks created through fuels treatment
- + Loss from fires occurring in with-project case

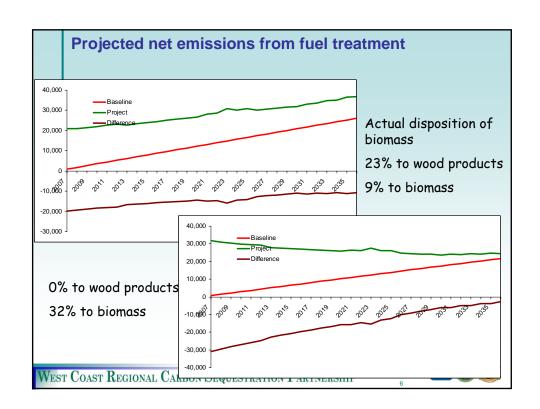
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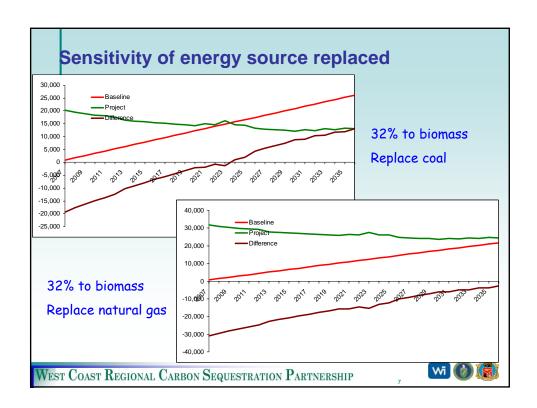


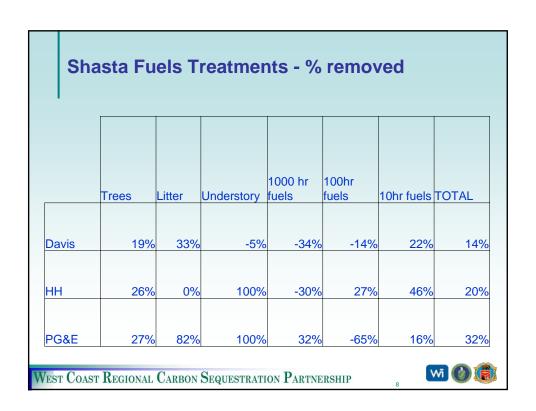


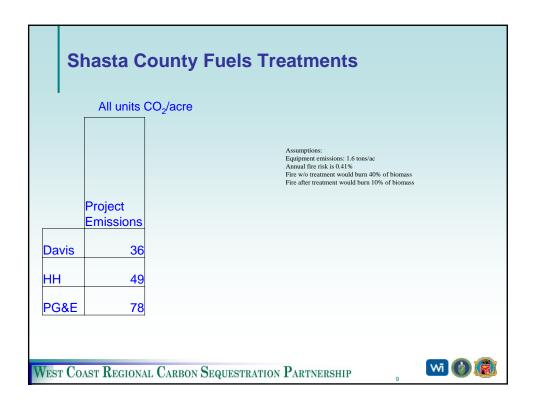


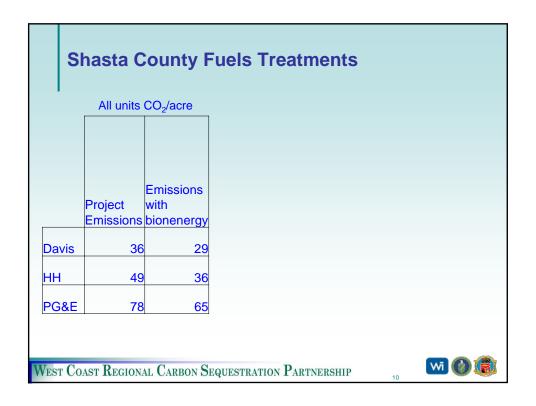


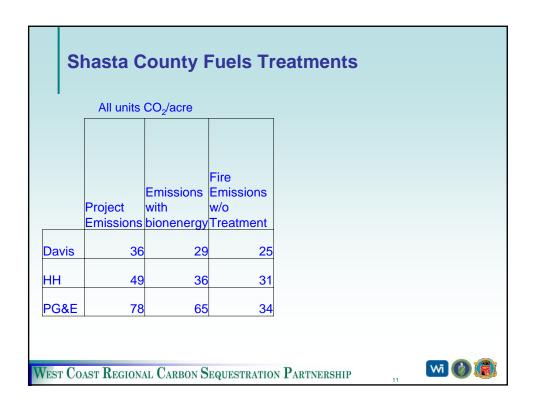


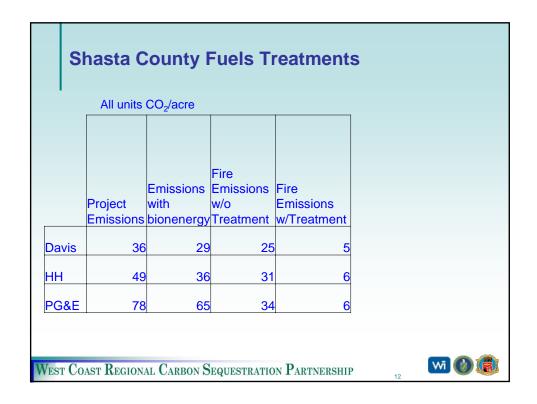


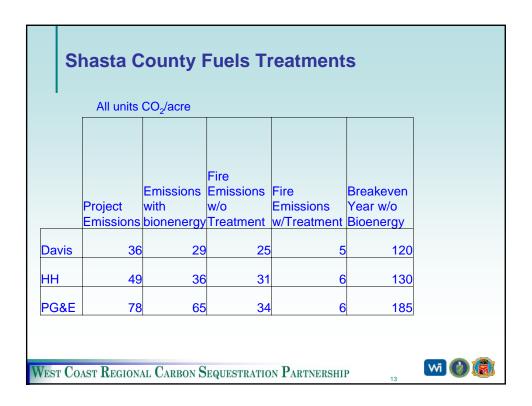


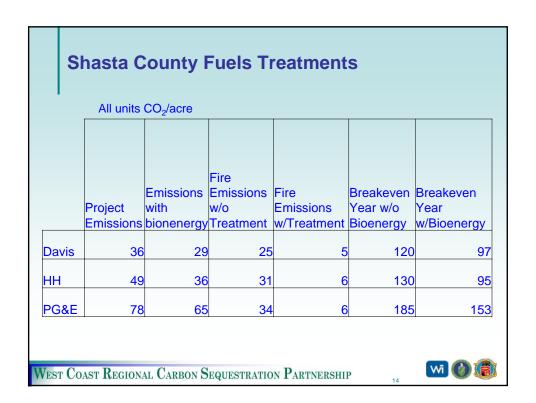












Conclusions:

- Project: treatments leads to large emissions
 - Emissions across entire project area as opposed to 0.8% (maximum) of area burned per year in baseline
 - Shadow or multiplier effect higher value makes project case more favorable
 - Growth advantage varies
- Baseline emissions outweighed by project emissions under most reasonable and conservative assumptions
- Analysis suggests that project scale for HFR does not make sense for carbon projects

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Next steps

- Project growth
- Model fire risk with and without project
- Model multiple treatment scenarios
- Treatments must:
 - Be appropriately placed
 - Reduce fire risk or intensity on the landscape
 - Minimally decrease carbon stocks
 - Utilize harvested products if possible
 - Increase residual growth

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Additional work

- Work at a larger scale:
 - Strategically placed treatments to maximize risk of burning and shadow effect—how large can this effect be and under what conditions?
 - Treatments across counties or even state
 - Greatly increase probability that one or more treated areas will burn
- Incorporate treatment emissions into landscape scale projects

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