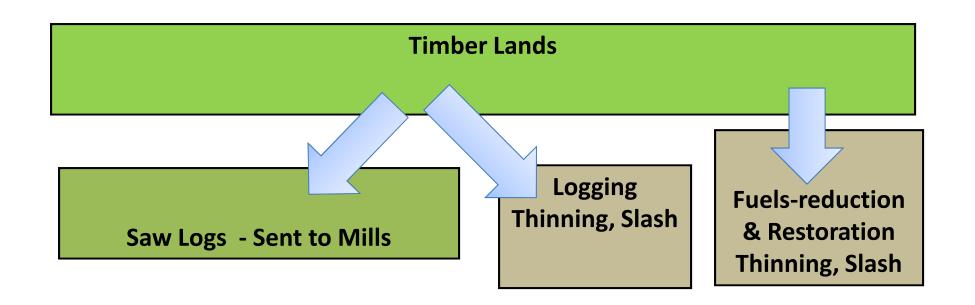
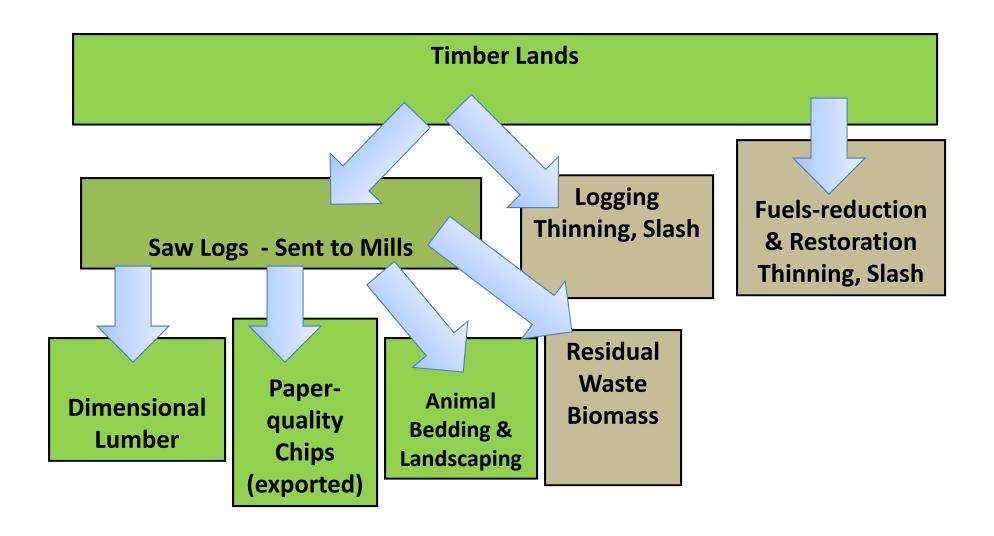
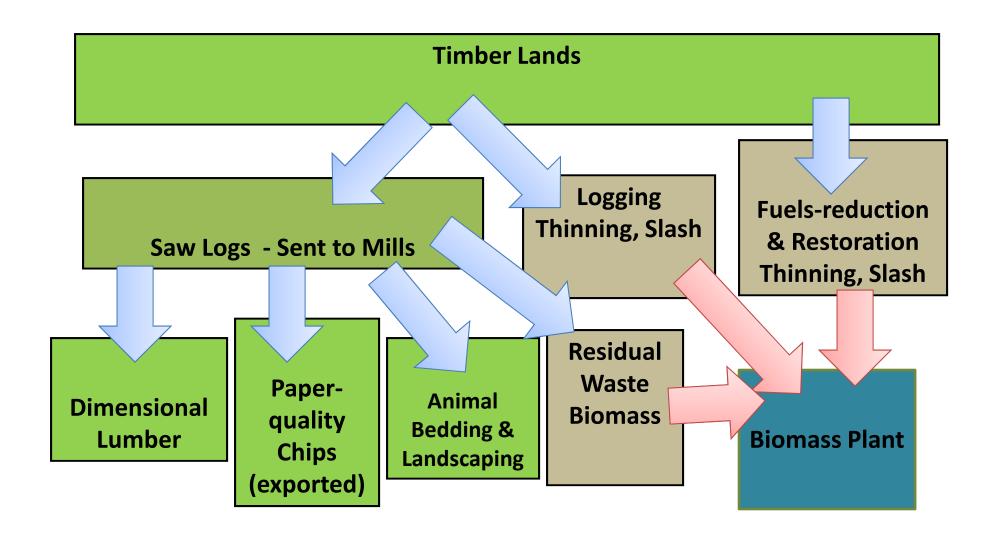


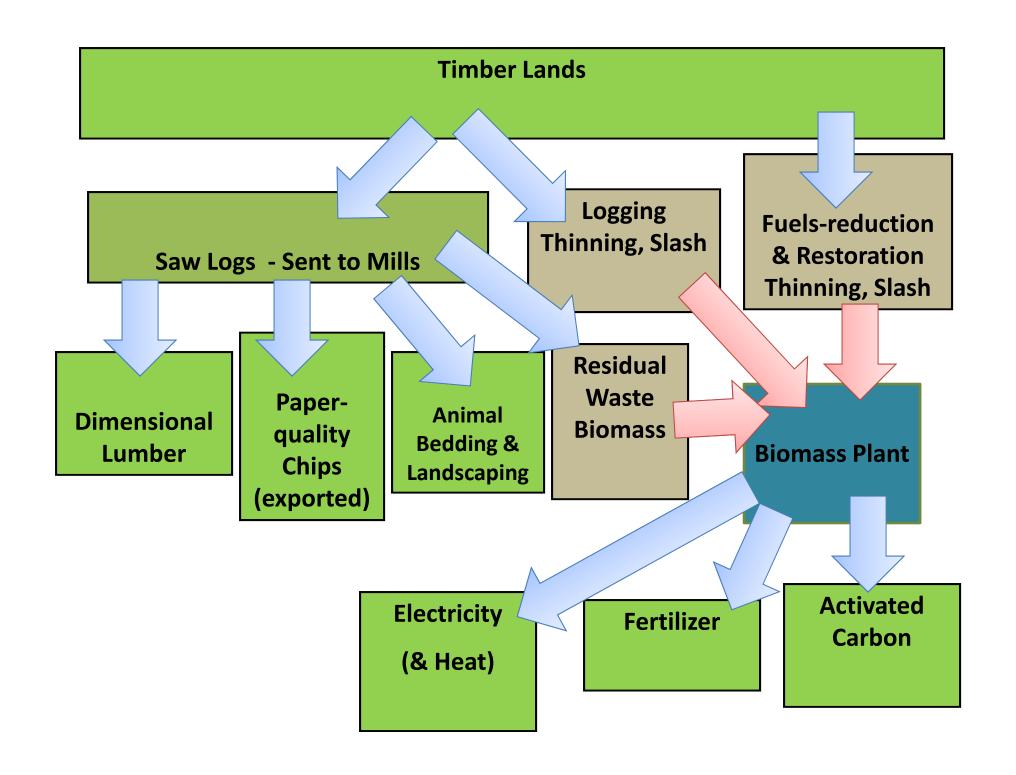
Board-adopted Guidelines for Biomass Procurement

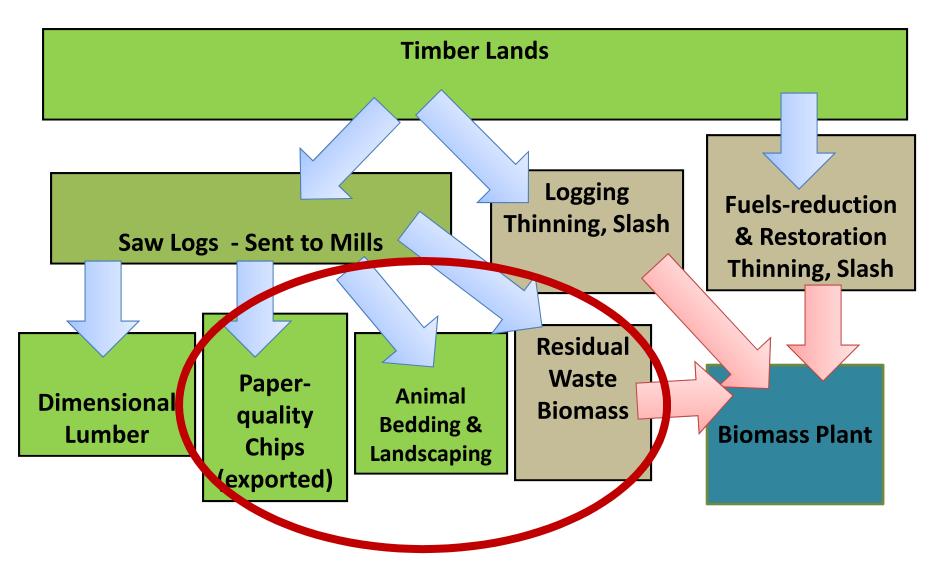
- 1. Issue a Request for Offers targeting power purchase agreements with **1-2 existing facilities.**
- 2. Structure overall biomass procurement strategy around **local waste-management** and forest restoration priorities and needs.
- 3. Include **environmental**, **community**, **and economic considerations** in selection process.
- Contingent on price and market conditions, contract for a target of around 20MW of local biomass energy.



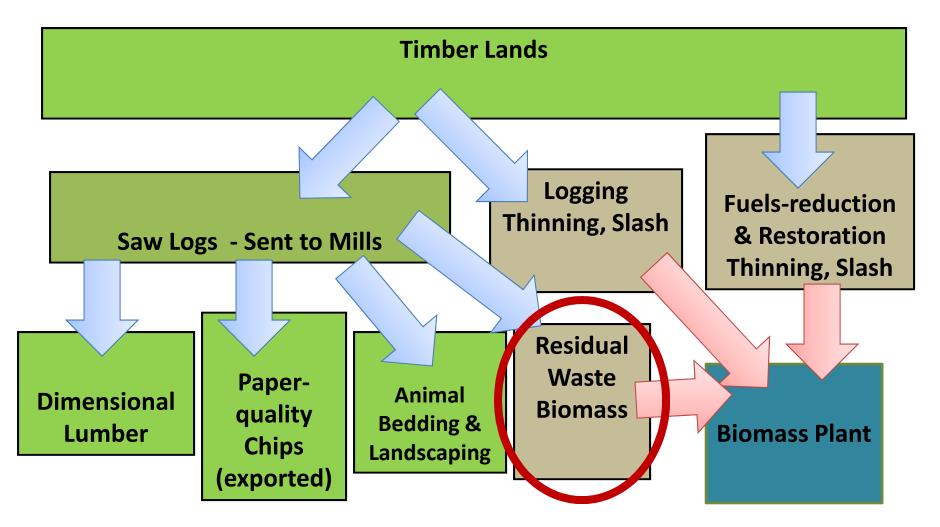




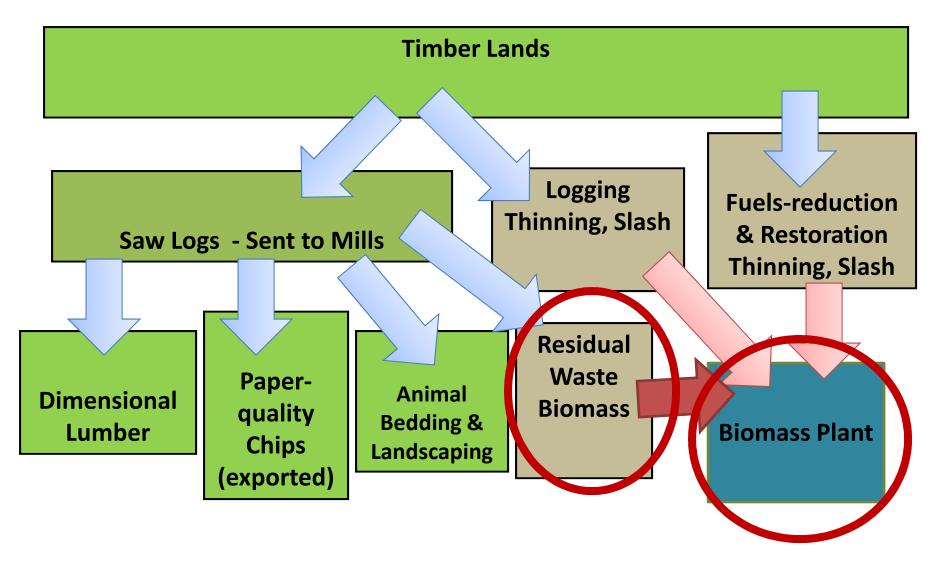




Total Humboldt County mill residuals = ~400,000 Bone dry tons

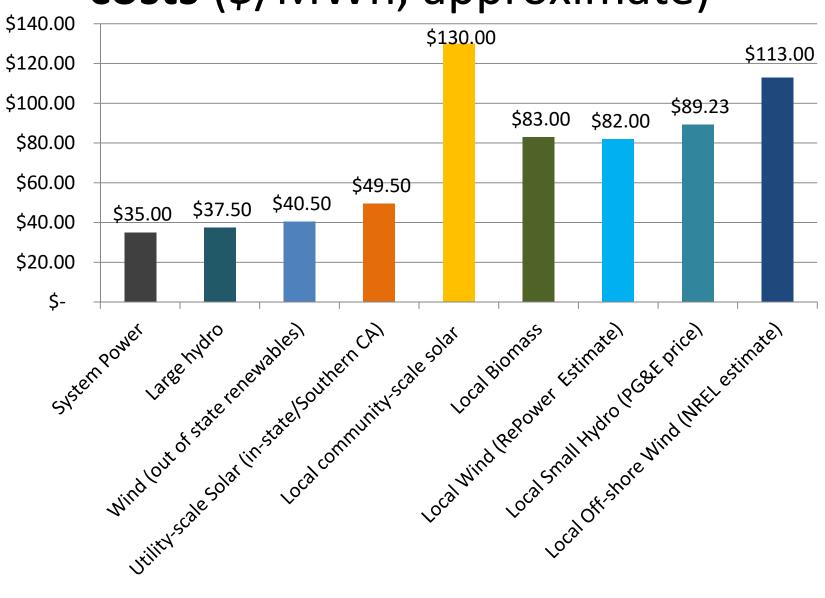


~50% of residuals typically sold for other uses, leaving ~200,000+ BDT



Processing 200,000 BDT requires about 25MW of operating power plant capacity

Current or projected wholesale power costs (\$/MWh, approximate)

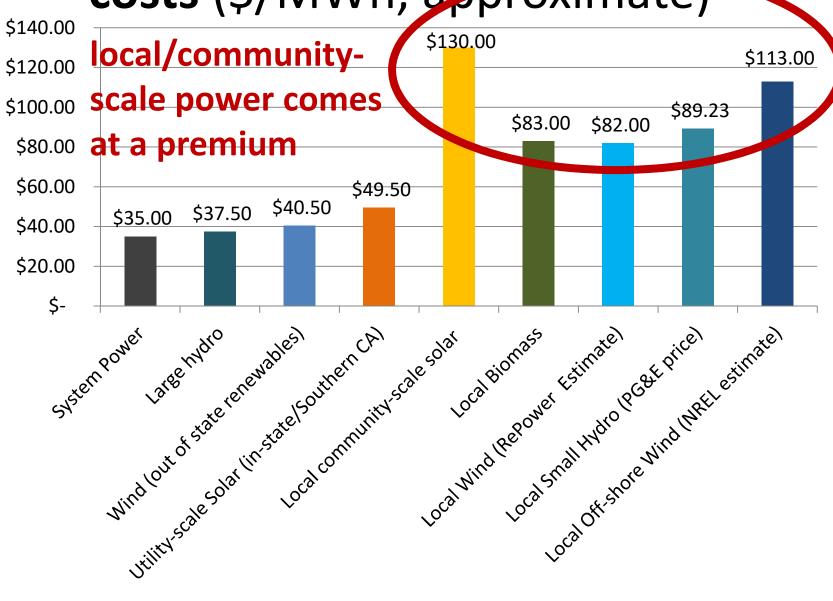


Current or projected wholesale power costs (\$/MWh, approximate)





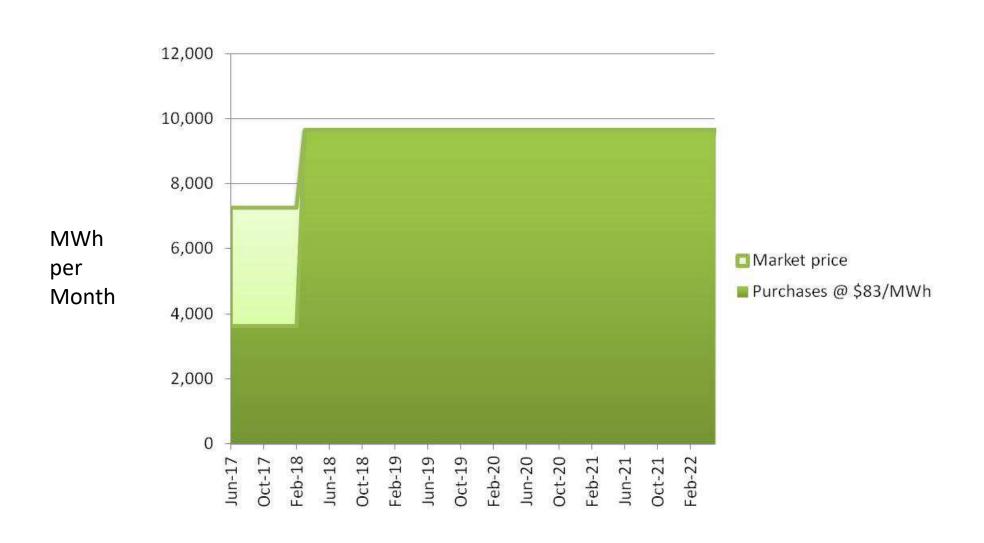
Current or projected wholesale power costs (\$/MWh, approximate)



Humboldt Redwood Company PPAs

- \$83/MWh bid price, 5-year contract period
- 9 month-term initial PPA at reduce volume for \$83, additional generation at market price
- 51-month term at \$83 for full volume
 - Includes "Material Change" clause to reduce RCEA risk exposure for multi-year commitment to above-market pricing.
- Environmental & regulatory compliance provisions

Humboldt Redwood Company PPAs



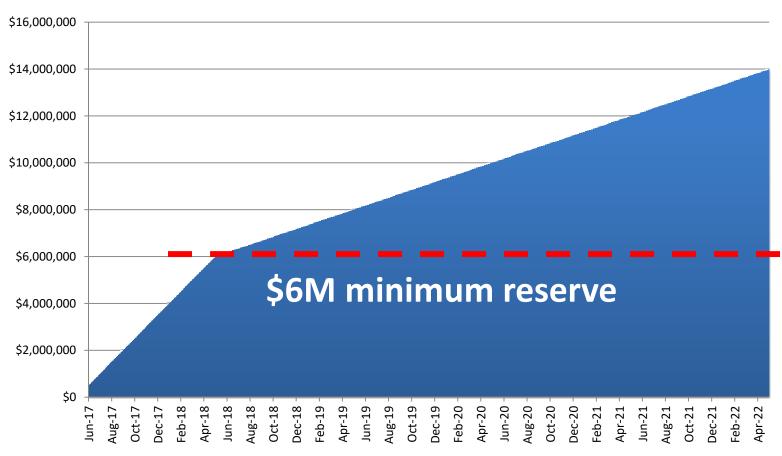
Material Change Policy Elements

Creates opportunity to renegotiate if:

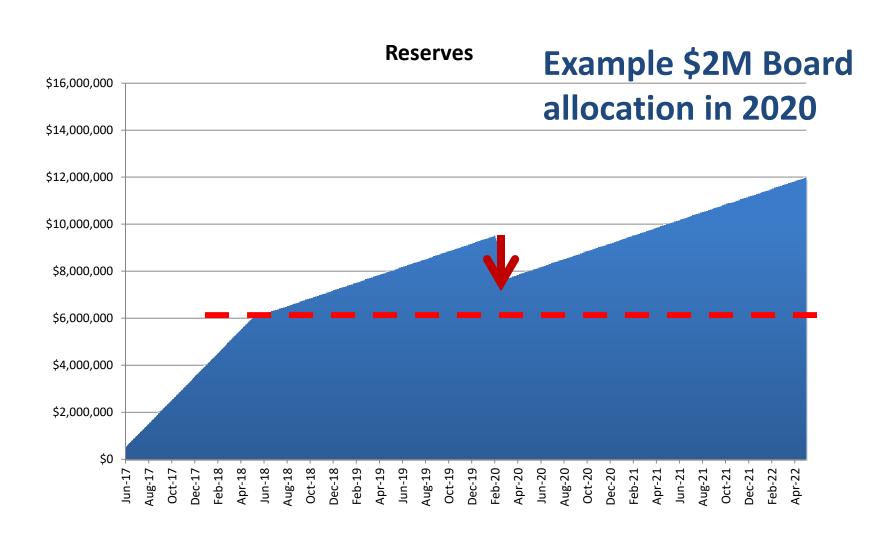
- 1. RCEA forecasts for the coming year show that we won't be able
 - Maintain 3% customer rate savings (~\$2M/yr)
 - Meet minimum power portfolio requirements and operating costs
 - Reserve accumulation of \$2M/yr
- 2. Customer participation levels are not met

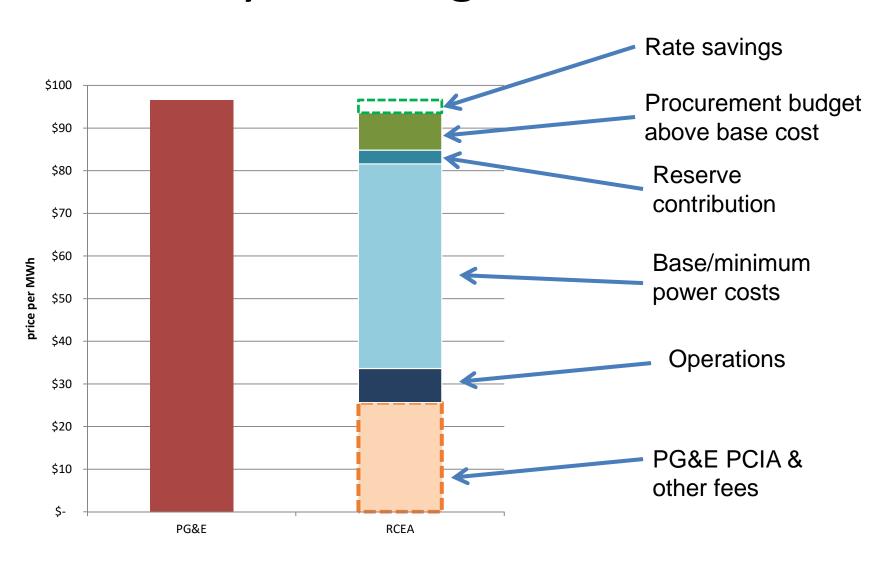
Reserve accumulation

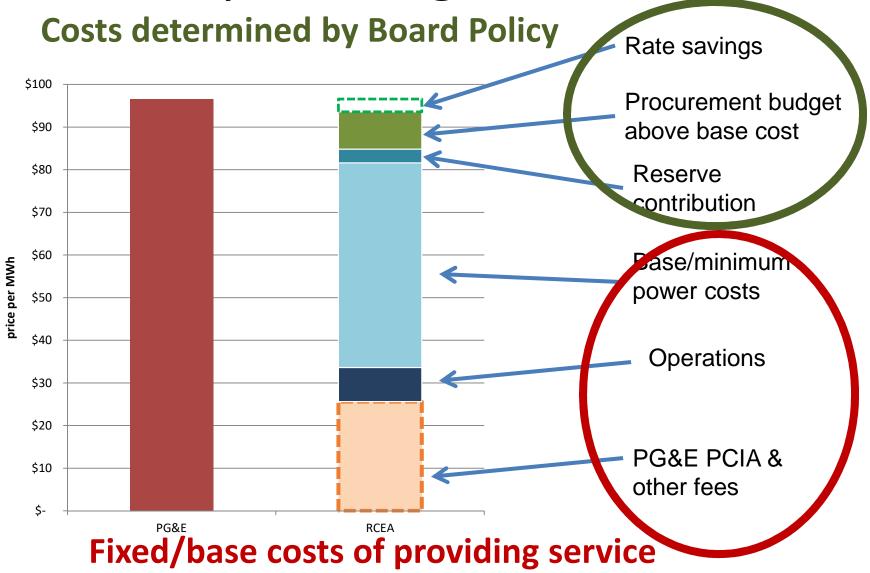
Reserves

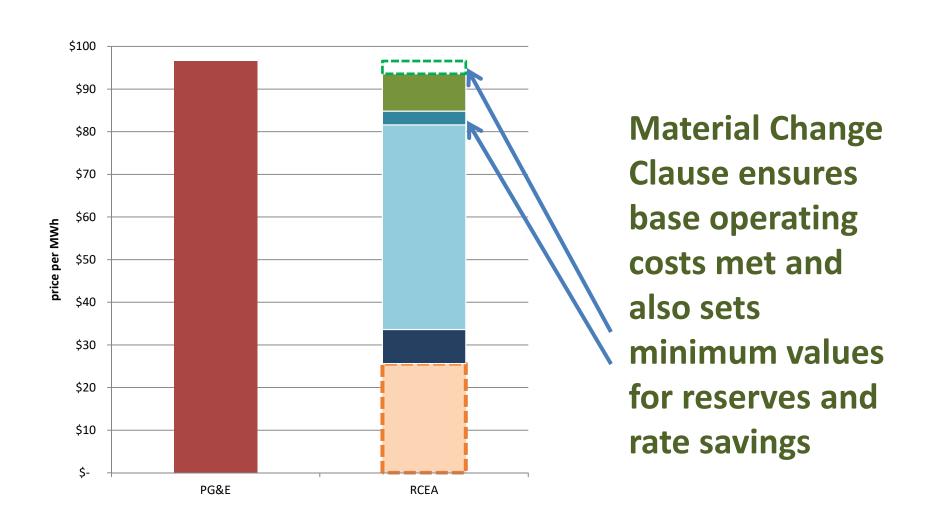


Reserve accumulation

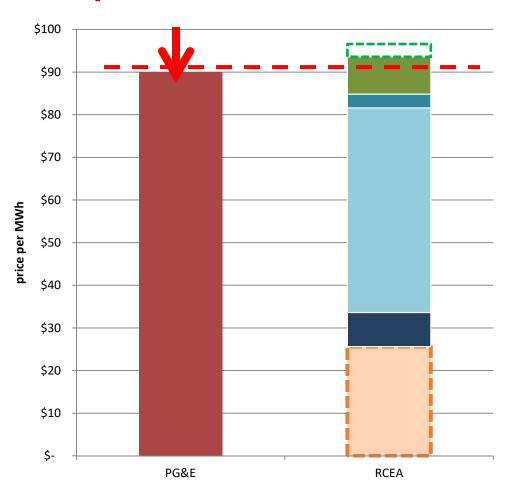


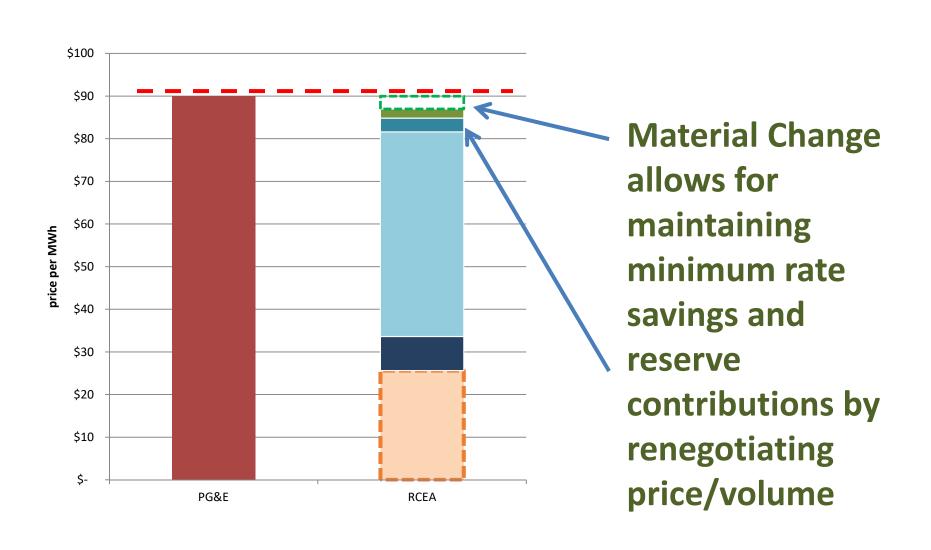




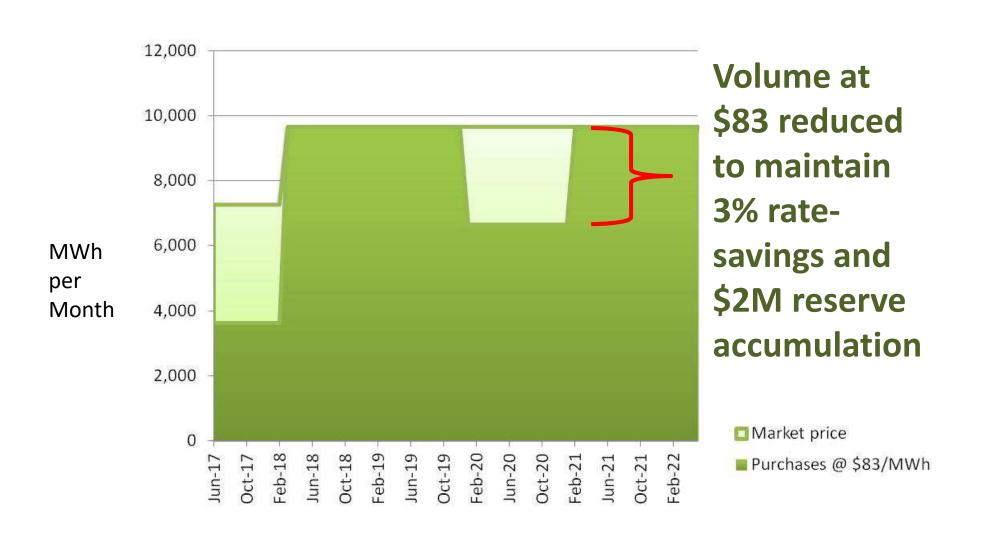


Example: PG&E Rate decrease





Humboldt Redwood Company PPAs





Biomass Procurement Phase 2



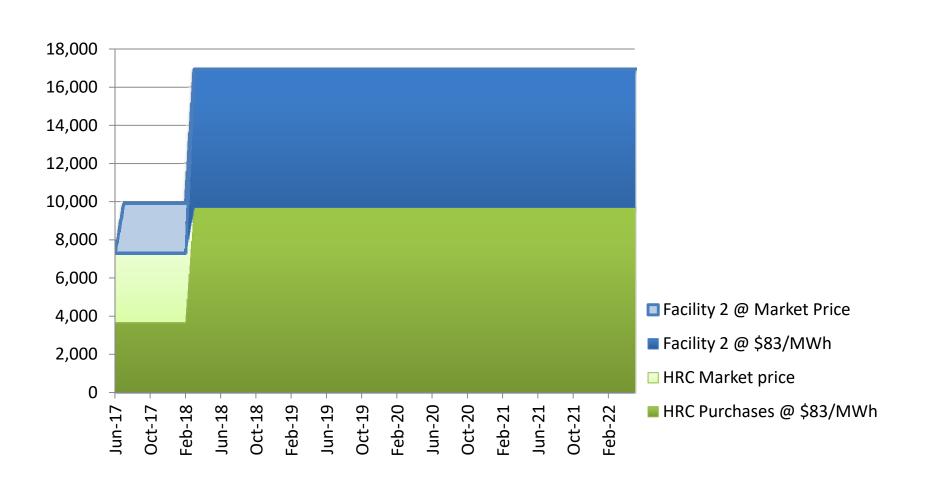
Proposed terms for additional biomass procurement

- Additional contract(s) layered on after HRC for available budget
- Base price would be \$83/MWh
- PPA terms would be modified version of HRC PPAs Including adjusted version of Material Change clause

Options

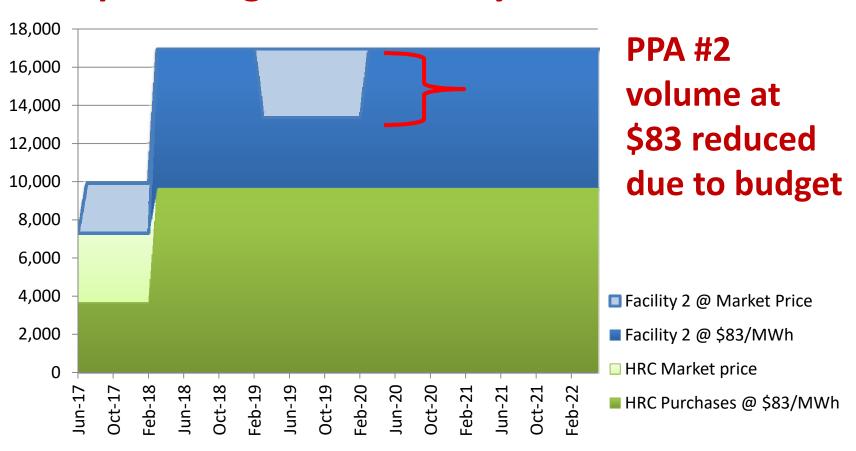
- 1. Pursue negotiations with one additional facility
- 2. Pursue negotiations with both, with one ranked ahead of the other for allocations of available headroom
- 3. Pursue negotiations with both, split any headroom equally

Additional PPA(s) layered onto HRC



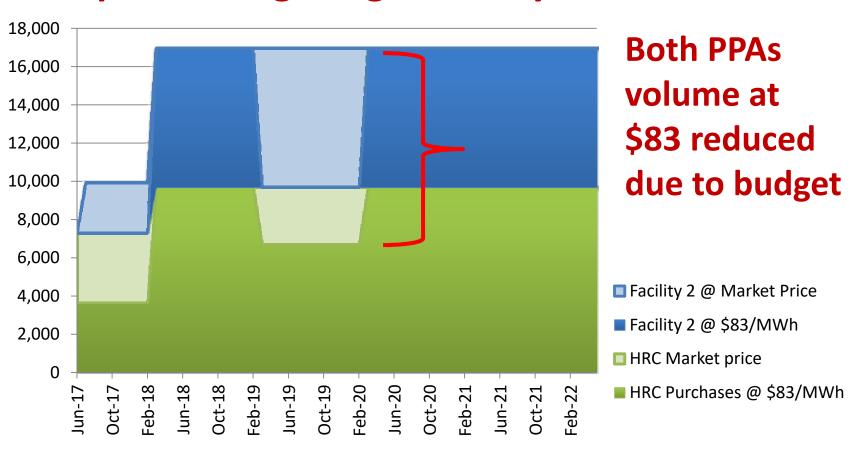
Additional PPA(s) layered onto HRC

Example: budget moderately constrained



Additional PPA(s) layered onto HRC

Example 2: budget significantly constrained



Considerations

- Technical analysis/forecasts do not project being able to afford 3 biomass PPAs at \$83/MWh
- Preliminary analysis suggests the capacity provided by two operational facilities would be sufficient to process currently-available biomass waste stream.
- The more budget committed to biomass = less available for other priorities (customer programs, new local generation, lowering power mix GHG emissions)

