

STRATEGIC SITING OF COMMUNITY-SCALE BIOENERGY PROJECTS IN CALIFORNIA



**Community-Scale Bioenergy
Conference**

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Key Siting/Location Attributes

- Feedstock Supply
- Community Support
- Existing Infrastructure
- Collocation Opportunities
- SB 1122 Considerations



Feedstock Supply

- Sustainably available long term (minimum 30 years)
- Sourced from 20-30 mile radius
- Must meet feedstock specifications (consistent with technology selected)
- SB 1122 – Feedstock sourced from FTTA



Fire Threat Treatment Area



Community Support

- Community must be supportive
- Early and often outreach is key
- Community stakeholders have a voice in the project development process
- Conduct forest biomass recovery demonstration projects
- Conduct field trips to forest operations + bioenergy facilities



Existing Infrastructure

- Near transmission or distribution system
- Industrial site that meets local land use zoning ordinance
- Transportation system
- Water
- Retired sawmill sites work well
- Room to collocate complimentary enterprises



Collocation Opportunities

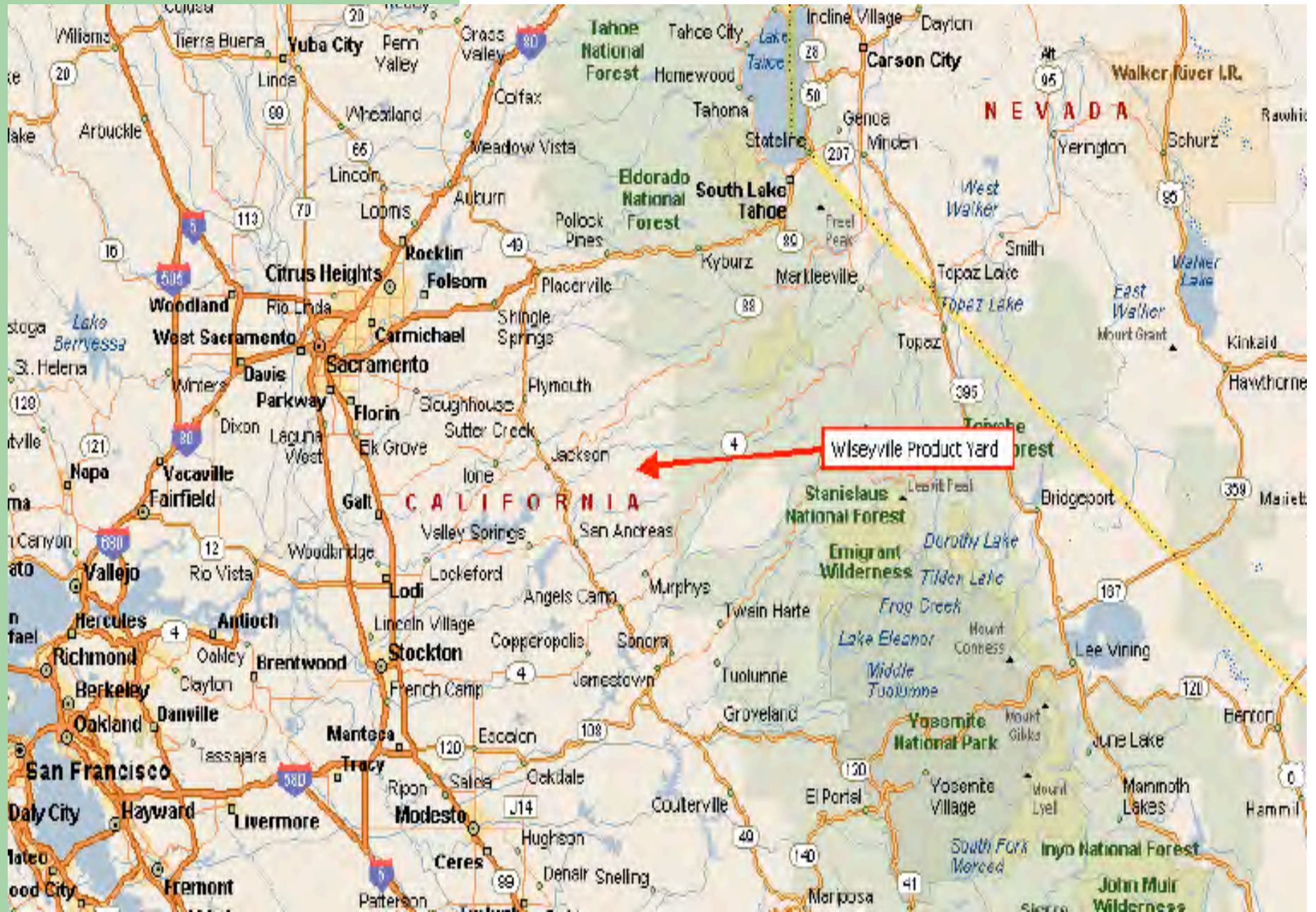
- Seek out existing sites as collocation opportunities with enterprises that can share resources:
 - Small scale sawmill
 - Firewood processing operation
 - Greenhouse operation
 - Compost or soil amendment operation
 - Post and poles operation
 - Community buildings
- Power and waste heat could be cost effectively utilized on site



Wilseyville Product Yard

- TSS completed a detailed Feasibility Study in March 2012
- Collocate enterprises that are complimentary and can share resources (labor/rolling stock) and products (waste heat, wood byproducts)
 - Small-scale sawmill
 - Firewood processing operation
 - Compost/soil amendment





SB 1122 Considerations

- Project must be strategically located:
 - Within Electric Corporation service territory
 - Optimize delivery of power to load centers
- Site control is key
- Must be eligible renewable energy resource
- Source forest biomass from sustainable forest management activities in FTTA



Product Yard – Observations Part I

- Site integrated enterprises that can share infrastructure, equipment, overhead, labor and resources
- Create a business model that will operate year round
- Utilize a full range of resources from small logs to biomass
- Incorporate secondary manufacturing whenever possible



Product Yard – Observations Part II

- Locate product yard in strategic location. Retired sawmill sites can work well
 - Adjacent to major highways.
 - Appropriate land use zoning is helpful. .
 - Infrastructure on site:
 - Water
 - Power



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QUESTIONS, HECKLING REMARKS?



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