



Item 15: Twelve Benefit Corporation

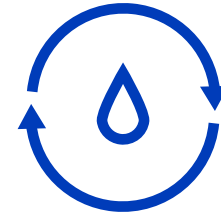
October 18, 2023 Business Meeting

Michael Lozano, Sr. Mechanical Engineer
Energy Research and Development Division
Energy Efficiency Research Branch



Benefits to Californians

- Energy efficiency
- Electrification
- Reduce GHGs, fossil fuels usage
- Reduce energy costs
- Contribute to meeting state decarbonization goals while maintaining competitiveness of California's industrial sector



Source: carollo Website



Source: EnergyMonitor.ai website

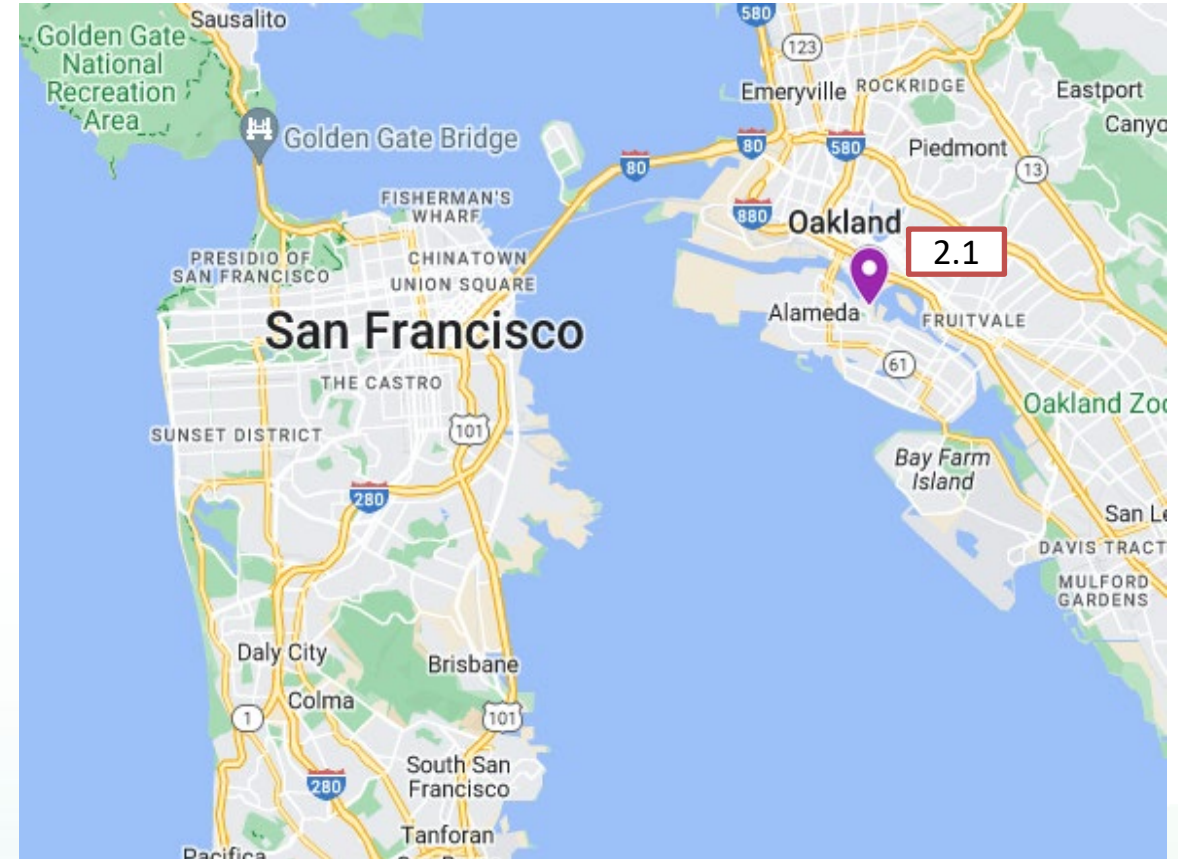


Source: Northmore Gordon website



Project Map

2.1	Twelve Benefit Corporation	Twelve R&D Facility 1135 Atlantic Ave, Alameda, CA 94501	PGE
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Source: Google Maps



Twelve Benefit Corp

Project Goals:

- Point source capture of CO₂ from industrial emission
- Conversion of captured CO₂ into high-value chemicals
- Move technology from lab prototype to commercial scale

Benefits to California Industry:

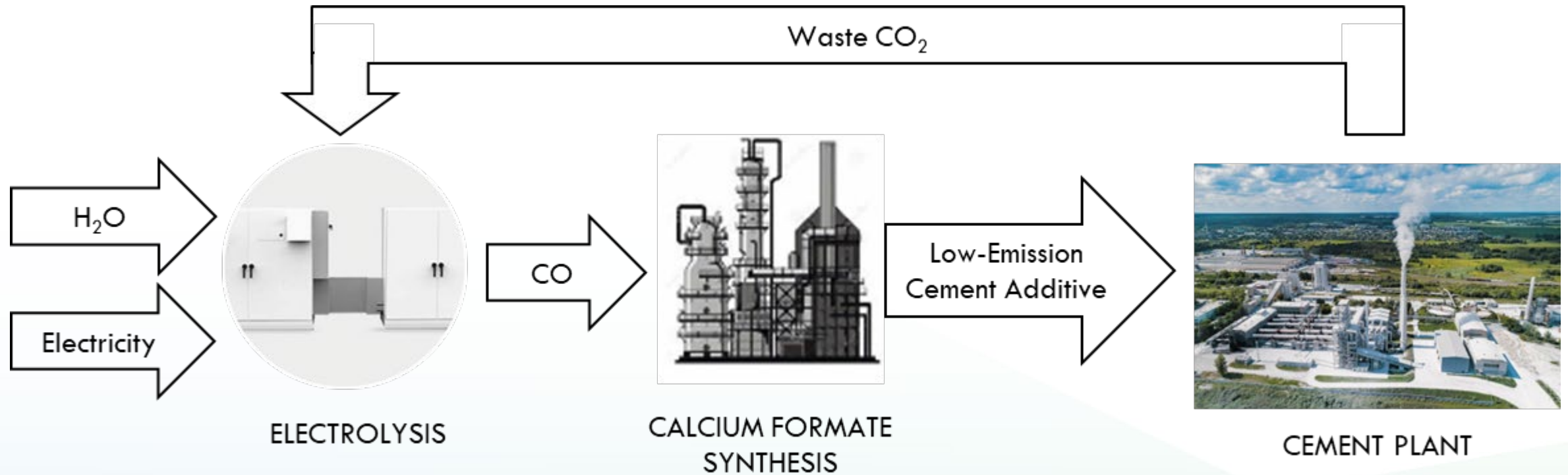
- Capture CO₂ from cement industry flue gas
- Improve energy efficiency and provide potential revenue streams from CO₂-based products



Source: Twelve Benefit Corp.



Twelve Benefit Corp



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Staff Recommendation

- Adopt staff's determination that this action is exempt from CEQA
- Approve Item 15 for this grant agreement