DOCKETED	
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President of RREDCO

Jeremy Hayward

Redding Rancheria's Biomass to Hydrogen

Redding Rancheria's Story



What are we trying to do?

Reduce fuels on the forest floor

Reduce chances of wildfires

Reduce CO₂ emissions

Provide clean energy



Why are we trying to do this?

Fires are more prevalent

Communities are being destroyed

Looking forward to the next seven generations

Energy availability



Tribe's culture of being stewards of the land Seventh Generation Mindset

Why Biomass to Hydrogen



Large Wildfires Destroying Communities

Carr Fire, August Fire, Dixi Fire, Park Fire, Camp Fire, Palisades Fire and many more

Utilize dead, downed, and diseased trees



Fuel Building up on the Forest Floors

Tribes have not been involved for a long time



Energy Sovereignty

Taking control of our energy production



Job Creation

Creates permanent jobs in rural communities

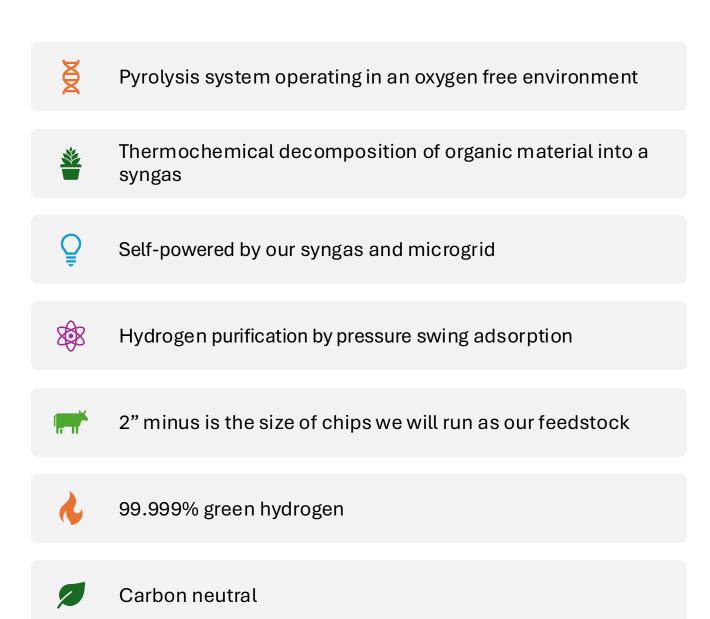


Limited Power Available

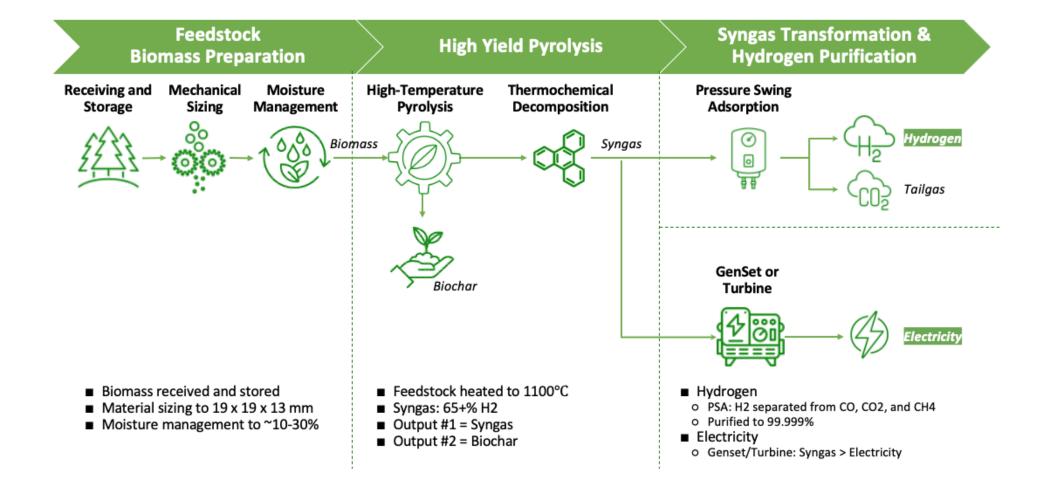
Electric vehicles, data centers, etc.

Produce our own electricity for the plant

Our Project



The Process



Biochar Benefits

Water Retention Enhanced Nutrient Availability

Improved Soil Structure

Increased Crop Yields

Carbon Sequestration Reduces Soil Acidity

Absorbs Pollutants

Additive for Livestock Feed

Renewable and Sustainable



Renewable – 54 million dry tons of biomass available annually

Biomass from multiple sources:

Agg waist

MSW

Tires



Sustainable – Economically viable and operationally predictable

Competitively priced with other energy sources

Green hydrogen production without high energy costs

Uses less water and energy than other methods

Benefits of our Project



Carbon Capture



Permanent Job Creation in Rural California



Reduction in Fuels for Forest Fires



Less Smoke from Fires



Green Energy or Gas

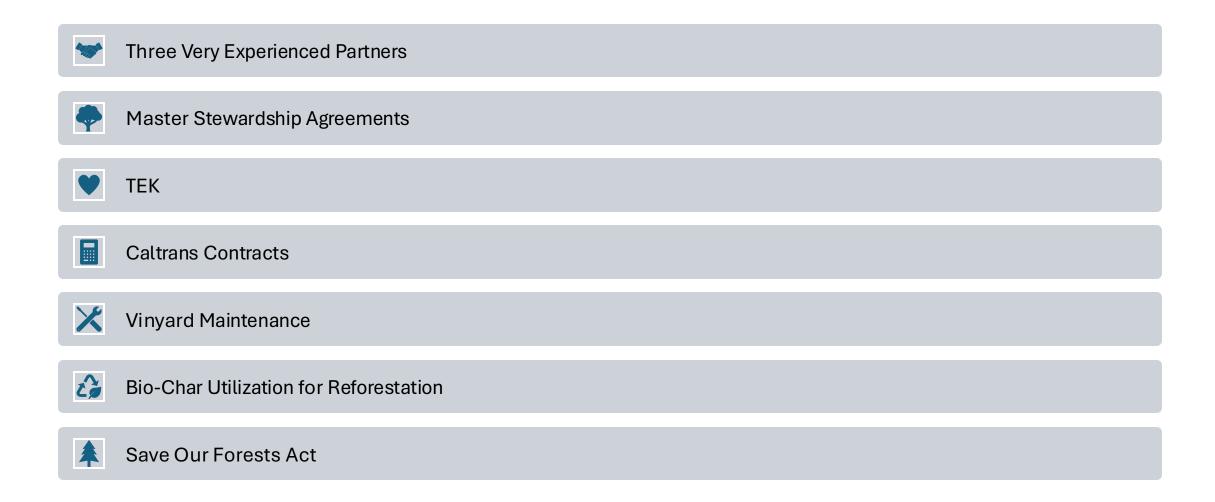


Safer Communities



Seventh Generation Mindset

EVM- Forest Management





Rate Increases Related to Fires

Challenges with this Project



Restrictions on Funding for use of Biomass Sourced from Federal Lands

57% of California's forested land is owned by The Federal Government

MSA's do not help



Infrastructure is Not Ready Yet

Fewer hydrogen pumps available now than when we started this project



Cost of Transportation of Biomass to the facility

Hazardous Fuels Transportation Assistance Program.



Funding Uncertainty

New administration with different goals



Interconnection
Agreement Challenges

Capital Stack

Department of Conservation \$500,000 predevelopment

CEC \$300,000 predevelopment

Tribe has spent over 1.5 million

DOE direct loan program specific to Tribes

Leveraging the ITC if still available

Looking for additional grant funding



Questions