



Planning for Energy Development

Strategic Energy Planning

Renewable Energy Demonstration Center Concept

Mecca, CA

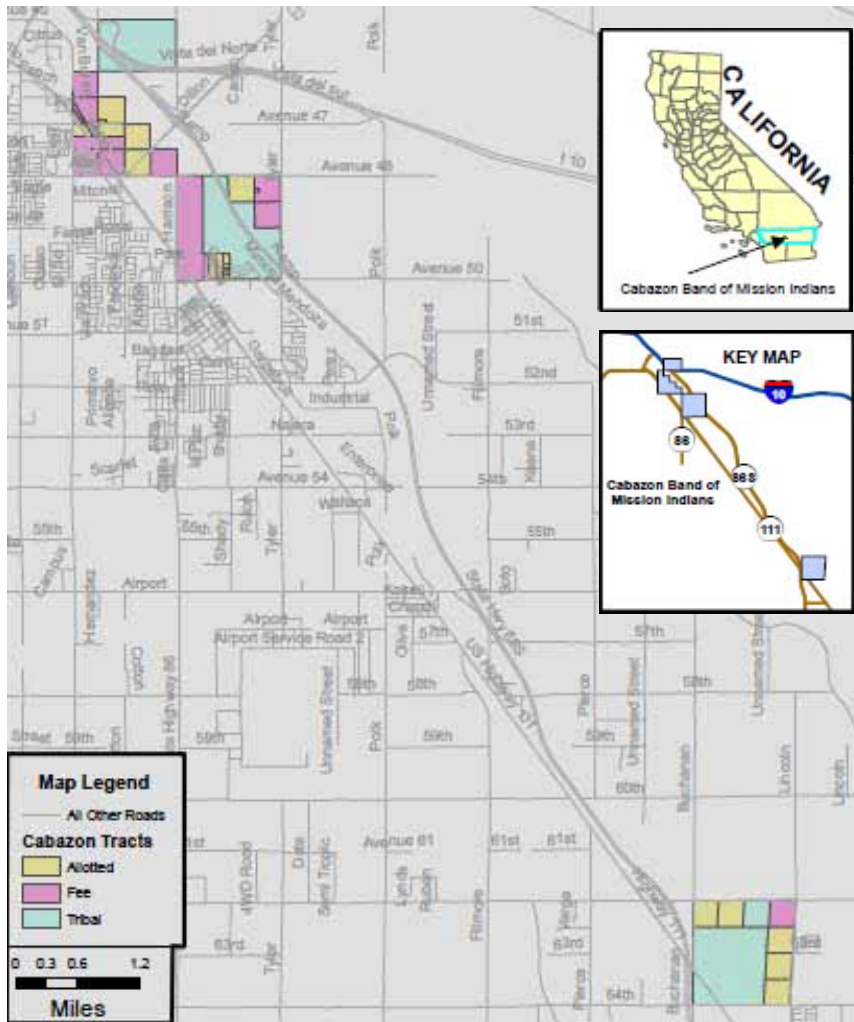
Awardee:

Cabazon Band of Mission Indians

Chairman David Roosevelt

November 18, 2011

CBMI Reservation



- **Eastern Coachella Valley (CA)**

- § 1,610 Acres

- Trust
- Allotted
- Fee: 272 Acres

- **Four Main Sections of Land**

- § Casino Resort

- § Housing

- § Cabazon Resource Recovery Park (CRRP)

- **Two Major Highways**

- § Interstate 10

- § State Hwy 86



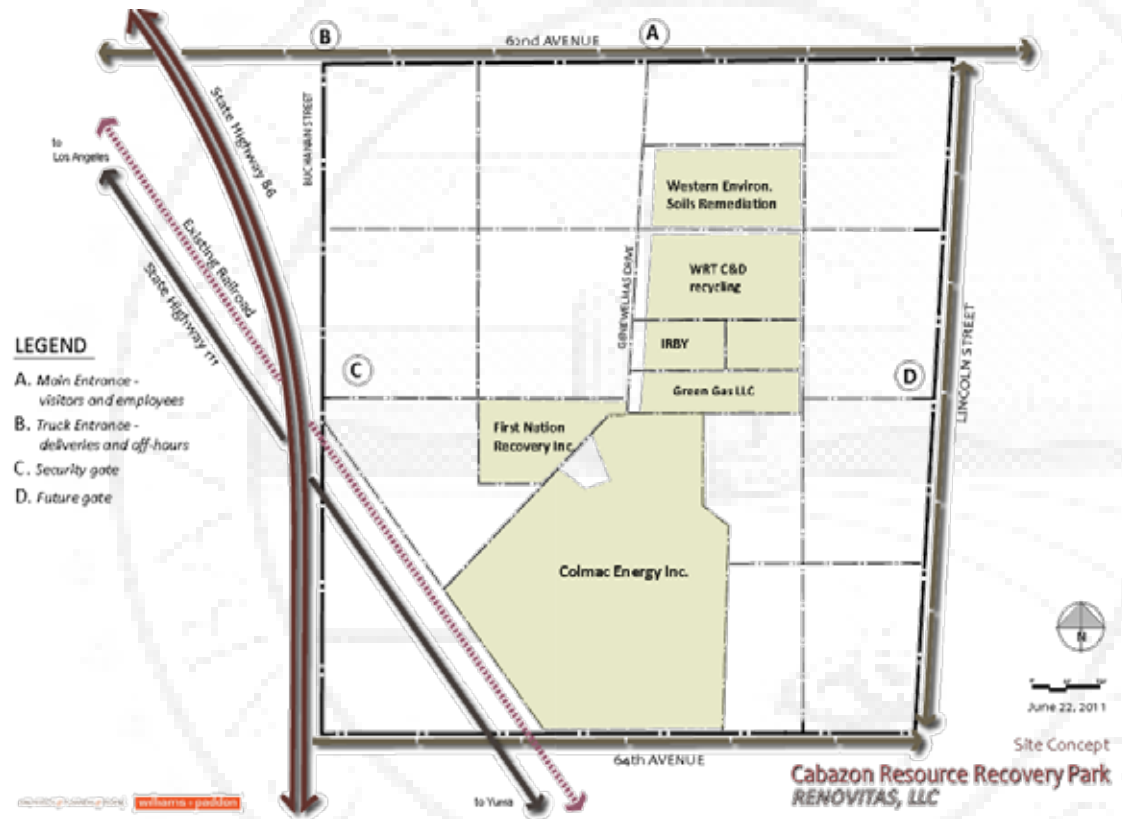
Background

- Long-range goals of the CBMI;
 - § Create local jobs, job advancement, career opportunities, introducing a new sector of jobs,
 - § Supply educational opportunities for both the community and tribal members,
 - § Improve the well being of both the community and tribal members,
 - § Foster economic diversity
- CBMI will not sacrifice their commitment to the careful stewardship of the environment.
- CBMI believes that renewable energy based on conversion technology offers a path to achieving its goals. The foundation was set 20 years ago with the creation of the Cabazon Resource Recovery Park (CRRP).
- CBMI was one of many tribes to enter the gaming industry and now aspires to be one of the many tribes to develop a renewable energy model that other Native American Indian tribes throughout the U.S. may use.



Existing CRRP

- 590 Acre Site
- 20-year history as a resource recovery & energy park
- Existing 47 MW biomass energy plant
- Tire Derived Fuel plant, Construction & Demolition, and Soil Recycling operations



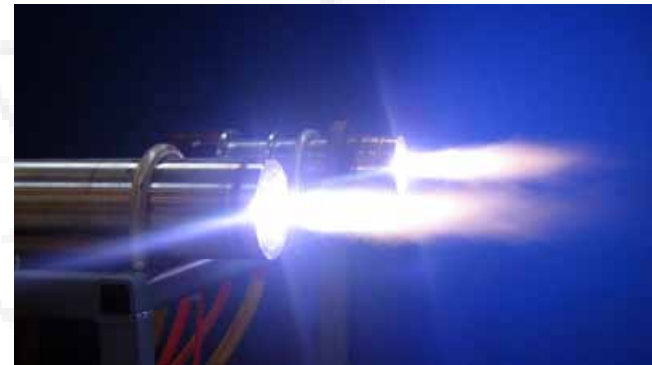
CRRP Approved Programmatic Environmental Impact Statement (EIS)

- **In 1999 the CBMI submitted and received approval to develop the CRRP for a variety of waste-to-energy conversion technologies and other recycling industries**
- **Incoming Waste Streams such as;**
 - § Wood, Municipal Solid Waste (MSW), Bio-solids, Rubber, Metals – Nonferrous/Precious/Ferrous, Metals, Plastics, Paper, Cardboard, Green Waste, Organic, Soils, C&D Debris, and Waste Oil
- **Projects & Facilities such as;**
 - § Biomass Power, Organic Recycling, Metals Recovery/Processing, Waste-to-Energy, Biomass Gasification, Material Recovery, Rubber Recycling, Used Oil Refining, and Soil Remediation



CRRP Grant Objectives

- Expand renewable energy technologies at the CRRP
- Building alliances with public and private companies and other government programs to increase commercialization of renewable energy technologies with national relevance at the CRRP
- Strengthen alliances with community by creating renewable energy jobs for local families and complementing existing educational opportunities by working with local colleges



DOE-FY2011-422 Grant Strategic Energy Planning

- Task 1 “where we are and where we want to go”

- § Baseline Assessment of CRRP Activities

- Present renewable energy activities

- § 47 MW biomass power plant

- Present energy usage of existing CRRP operations

- § Vision Statement for the expansion of CRRP with renewable energy focus

- To support long-term tribal goals;

- § Create local jobs, job advancement, career opportunities, introducing a new sector of jobs,

- § Supply educational opportunities for both the community and tribal members,

- § Improve the well being of both the community and tribal members,

- § Foster economic diversity



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- Task 2 “Action Plan”

- § Supply and Demand Analysis - what are the renewable energy opportunities and resources in the Coachella Valley area of Riverside County (CA)?

- § Develop Action Plan to attract;

- new renewable energy technologies
- new tenant companies
- renewable feedstock
- funding sources

Could a Renewable Energy Demonstration Center (REDC) attract renewable energy technology companies to CRRP?



Renewable Energy Testing Center (RETC) Model for the CRRP and REDC

- RETC has one of the largest number of pilot-scale renewable energy technologies under one roof for test and validation in the country
 - § Operated by Technikon, Inc. (non-profit) in Sacramento, CA for the U.S. Army
- CRRP/REDC could be graduation site for viable technologies
 - 3 Gasifier companies
 - Fischer Tropsch Diesel Fuel System
 - Algae Bioreactor
 - 3 Gas-Cleaning Systems
 - Solar Reformer
 - Anaerobic Digestion Technology

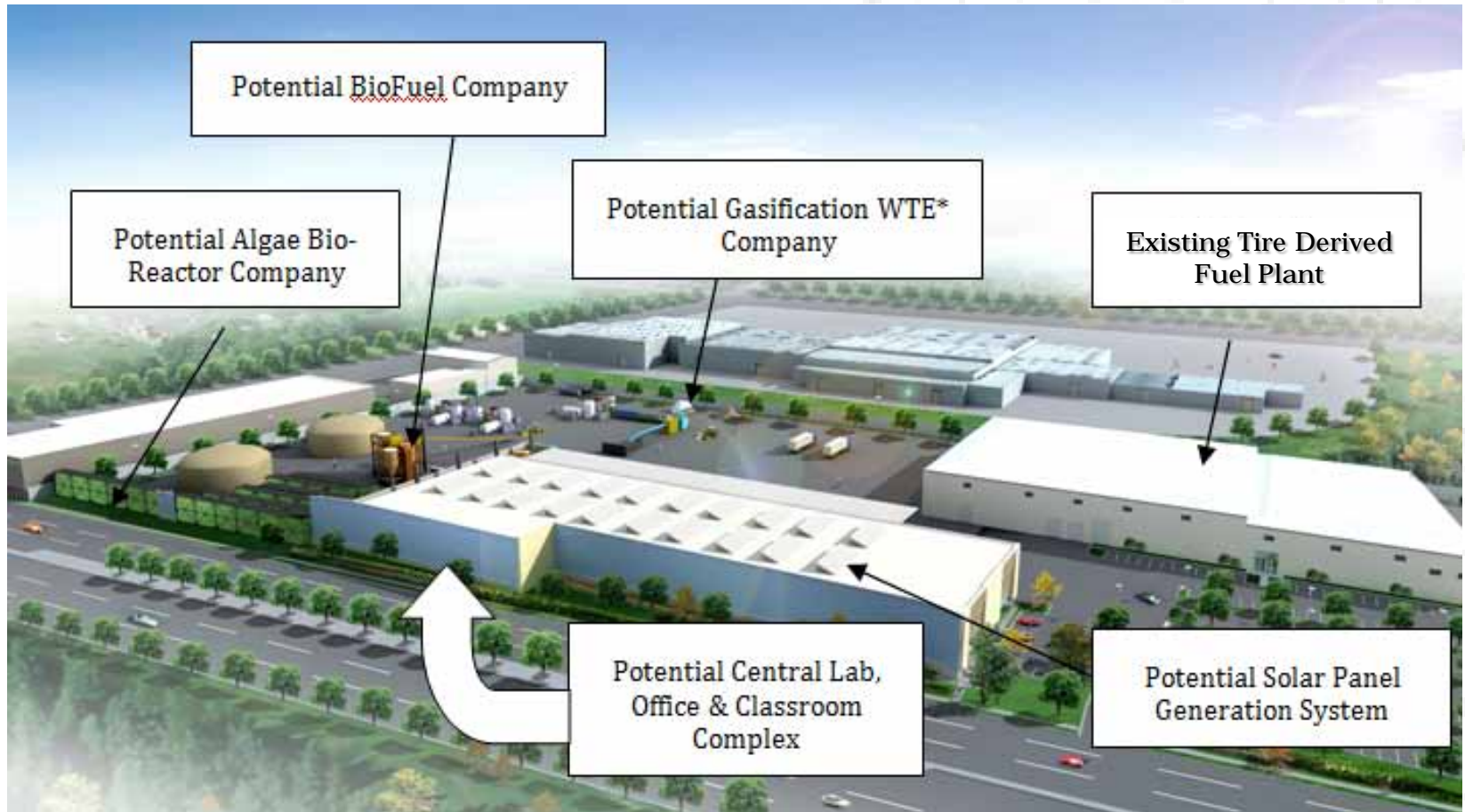


REDC Concept

- There is a need for industrial proving grounds for commercial demonstration of emerging renewable energy technologies that REDC could fulfill
- REDC reduces costs to companies by providing;
 - § Close proximity to major highways & rail service
 - § Multiple sources of renewable energy feedstocks are available and covered in the CRRP Environmental Impact Statement (EIS)
 - § Technical support – scientific, experienced technical staff and partnering with local colleges and universities that have renewable energy programs
 - § Support in state & federal air permitting for operations and new processes
 - § A comprehensive Environmental Health and Safety Management Program for entire park based on ISO14001



REDC Concept Layout with Support Buildings



DOE-FY2011-422 Grant

The Plan for the 422 grant (in the next 12 months);

- Refine our knowledge of the renewable energy technologies that would be a match for the existing CRRP
- Determine the availability of renewable energy resources in the surrounding area of the CRRP (Baseline Assessment)
- Develop Vision Statement for the expansion of renewable energy technologies at the CRRP
- Determine the economic opportunity for renewable energy production (Supply and Demand Analysis)
- Complete an Action Plan for the Cabazon Resource Recovery Park that would be implemented to add renewable energy companies to site



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