California Heritage Mills Project

Mark T. Lozano and Katie Martin
A-Z Rice Production Company

- Grow, process, and package rice products
  - Founded in 2011
  - Large scale processing and packaging facility
  - Process and package rice from other growers

- Located in Maxwell, CA

- One of 30 rice producing companies in CA
  - Many located in Northern California
Problem Statement

- Currently PG&E customers and leasing land
- Considering buying land and installing renewable energy
- Would like a cost-benefit analysis
Prior Literature

Marlbaro Mushroom Farms in Pennsylvania

- Ground installation solar panels on 7 acres
- Produce 1,783 MWh annually
- Powered 100,000 sq.ft. of growing rooms operating 24/7

CHM Considerations....

- Use approximately 3,100 MWh annually
Stakeholders

- Owners
- California Heritage Mills
- Milling Companies
- Competitors (29 in Cali)
- Pacific International Rice Mills
- Sun West Milling
- Land Owner
- Local Community
- Local Government
- Clients
- Families
- Consumers
- PG&E
- Energy Companies
- Renewable Energy Companies
- Wind
- Solar
Policy

- California Solar Initiative expired on December 31, 2016
- No additional solar incentives in 2017 for businesses
- No CA tax breaks for large company land purchase
Future Direction

- What’s the budget for the project?
- Where will the land be purchased?
- How much land can be dedicated to renewable energy production?
- Need more accurate value for annual energy consumption
Summary

- CHM: Rice milling company concerned about energy costs
- Solar energy has been used in agricultural systems and can cover 100% energy costs given enough land
- Main stakeholders: milling companies, energy companies, and the local community
- No current policy or incentive in place for solar energy
Questions?

- CHM: Rice milling company concerned about energy costs
- Solar energy has been used in agricultural systems and can cover 100% energy costs given enough land
- Main stakeholders: milling companies, energy companies, and the local community
- No current policy or incentive in place for solar energy