

# Van Ommering Dairy

Lakeside, California

Robert Van Ommering

















**BAUER**  
FOR A GREEN WORLD  
**Separator**





**DANGER**  
CAR PROTECTION  
REQUIRED









# Keys to success

- 1. Design team
- 2. Uncontaminated organic matter
- 3. Electrician and mechanic
- 4. Using heat or biogas directly

# Pro's of Anaerobic Digester

- 1. Environmental stewardship
- 2. Joint venture opportunities
- 3. GHG credits
- 4. Ag tourism

# Con's of Anaerobic Digester

- 1. Capital cost
- 2. Management commitment
- 3. Maintenance costs
- 4. Engine emissions

# Utility Pricing

- 1. Net Metering
- 2. Power Purchase Agreements
- 3. “Cow Power”

<b>CONCRETE DIGESTER &amp; COVER</b>	<b>\$300,000</b>
<b>GEN-SET &amp; SWITCH GEAR</b>	<b>\$150,000</b>
<b>PIPING &amp; INSTALLATION</b>	<b>\$100,000</b>
<b>PUMPS &amp; SEPARATORS</b>	<b>\$ 80,000</b>
<b>UTILITY HOOK-UP</b>	<b>\$ 50,000</b>
<b>DESIGN TEAM</b>	<b>\$ 50,000</b>
<b>GENERATOR BUILDING</b>	<b>\$ 50,000</b>
<b>ELECTRICAL INSTALLATION</b>	<b>\$ 50,000</b>
<b>PERMITS &amp; SITE PREP</b>	<b>\$ 25,000</b>
<b>TESTING &amp; CERTIFICATION</b>	<b>\$ 25,000</b>
<b>HEATING DIGESTER</b>	<b>\$ 15,000</b>
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<b>TOTAL COSTS</b>	<b>\$895,000</b>

# Potential Funding Sources

- Grants
  - 1. Federal - EQIP via NRCS
  - 2. State – SB5X via CEC
  - 3. CPUC – Regional Energy Authorities
  - 4. Water Control Board - ??
- Low Interest Loans
  - 1. State
  - 2. Environmental groups ??



