

Suggestions for Future Match Funding Solicitations

1. Support Equipment for a Turbine Powered CHP Plant – \$2.5mm

- Waste Heat Recovery Module - transferring waste heat to a closed loop thermal oil heating system
- Thermal Oil Heater – most efficient method for transfer of waste heat to the bio-fuel processes
- Sound proof CHP building
- Heat-traced thermal oil transmission lines to the process
- Switch panels, meters and transmission lines to carry surplus power to the grid
- Fuel/gas compressor for biofuel and/or NG

2. Low Emission Intermodal Bio-fuel and Feedstock Transport System – \$4.0mm

- Stack-able, Intermodal rail transport tanks –
- Specialized trailers to move tanks from intermodal rail yard 2 miles away to plant
- Bio-fuel powered Intermodal tank lifting equipment for product load-in/out
- Bio-fueled trucks for local bio-fuel deliveries to end users

3. LEED Certified New Construction - \$3.0MM

- Green fencing and solar powered security gates
- Solar panels to reduce energy use in the Admin building
- Use of LEED certified building materials and construction techniques for all new buildings
- Re-use of recycled asphalt and concrete for roads, parking areas and pads
- Storm water capture and holding systems
- Water purification system
- Bio-fuel powered chipper for landscape waste
- Solid waste compactor
- LED lighting for all interiors and parking areas
- Skylights and automated windows with variable tint
- Automated ventilation, heating and air conditioning systems
- LEED certified cooling tower
- Construction plan that minimizes construction waste and pollutants

4. On-site Alt Fuel Powered Equipment – \$750K

- Electric, biodiesel or NG powered forklifts for dry consumables
- Bio-fueled air compressors and nitrogen generators
- Alt fuel personal transport vehicles
- Bicycles and bike racks
- Walkways and bike paths with LED lighting and low water use landscape

5. WVO Collection Systems - \$1.5mm

- Pump trucks
- Dispatch communications
- Support equipment; bio-fueled steam cleaning devices for restaurant holding tanks and grease traps
- Water separation and initial filtration at the plant receiving point
- Service promotion

6. Demonstration Level Algal Oil Production Facility – \$12mm

- Match funds for a turnkey project with proven technologies
- Production, harvest and oil extraction technology demonstrations
- Land available adjacent to biofuel production plant

7. Bio-remediation of Selenium Contaminated Lands Using Purpose Grown Oil Seed Crops – \$8mm

- Match Funds for continued research in West Lands Irrigation District
- Farm Equipment
- Mobile crush mills and oil extraction equipment
- Holding tanks
- Oil and meal transport equipment

8. Producer/CEC Sponsored Biofuel Dispensing Pumps at Local Truck Stops - \$1mm

- Dedicated bio-fuel pumps to be added to existing infrastructure at local gas stations
- Installation costs
- Promotion

9. By-product Purification Systems – \$2.5mm

- Energy efficient, thermal oil heated distillation column for glycerin by-product

10. Tank Farm Automation and Emissions Monitoring – \$1mm

- Electronic monitoring devices, controls, cable trays and alarm systems
- Heat traced pipe racks
- Sonar level sensing
- Tank heaters for specific products, agitation and insulation
- Pads and spill containment structures

11. Off-site Bio-fuel and Feedstock Transfer Station for an Existing Rail Spur - \$ 3mm

- Top and bottom loading equipment with spill containment and safety features
- Rail car steam heating capacity (no tank farm needed)
- Heat traced pipeline from rail spur to plant
- Track mobile

12. Automated On-site Bio-fuel Truck Loading and Blending Rack - \$2mm

- Automated biofuel injection loading systems
- Tank farm modifications for various blends
- Insulated and heat traced pipe rack (for in-coming feeds)
- Spill containment
- Employee safety features
- Overhead canopy
- Manifolds, valves and high speed pumps
- Emissions control and monitoring devices
- Electronic remote monitoring

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