



To be constructed or purchased are: grain silos, grain grinder, seed oil press, ethanol production equipment, some needed tools. Estimated materials cost for plant establishment approximately \$40,000.

To boot-up the plant in its first month of operation will require an additional \$43,000 to cover seed (corn & sunflower) and other raw materials, electricity, office expenses and minimum salaries.

The requested funding is the barebones minimum to induce production and cashflow adequate for the fuel production operation to "bootstrap" itself, requiring no additional funding to maintain itself at current levels and even gradually increase of capacity.

### **Available Markets at Maximum Output Levels (900 gal/day)**

Being able to sell bio-diesel at prices \$.10 to \$.25 below current market value and already having established bio-diesel-providing relationships with local ranchers & truckers, there is virtually zero danger of not being able to sell all that can be produced.

### **Future Growth**

With the majority of the reservation's 30,000 occupants being scattered over 5,000 square miles, the abysmal poverty of the area, (90% unemployment) and the soaring fuel prices, fuel production is one of the most critical cottage industries that could be brought to the reservation at this time.

The establishment of this bio-fuels facility will provide the cashflow needed to fund much of the OLCERI General Plan – including 12 month greenhouse food production and other micro-industries (see <http://www.whisperingmoon.org/olceri.htm> )



Bryan Deans (right) with the existing 900 gal/day bio-diesel reactor (Summer 2005)



**Bio-Fuels Plant Establishment Financials  
Phase 1: 500,000 gal/year**

**SUMMARY**

<b>Category</b>	<b>Amount</b>	<b>Notes</b>
900 gal/day Bio-diesel reactor, existing	\$ 0	Donated by Bryan Deans, value = \$20,000
Bio-Fuels Plant Equip	\$36,597	See detailed (barebones) budget
Plant power & plumbing, materials	\$25,000	
Light-duty, general use vehicle, high MPG passenger, diesel	\$7,500	
High payload, 1 ton, dually truck	\$27,000	
Insurance, general umbrella; facility & vehicles	\$640	4 months
1 <sup>st</sup> Year Operational Capital	\$43,500	See projected cashflow statement
Labor & Direct Salaries during Construction Phase	\$80,000	Assumes labor typically equal to value of materials
Equipment Pickup & Hauling	\$9,000	6 trips picking up equipment from around the country
Office computer & printer station; software, peripherals	\$4,550	1 computer, 1 office printer, MS Office software, Quickbooks, other essential peripherals
General office operations expenses	\$4,000	4 months
Part-time bookkeeping & general office help	\$3,440	4 month
Contingencies	\$25,000	Repairs, unexpected costs
<b>TOTAL</b>	<b>\$266,227</b>	

## DETAILED STARTUP BUDGET

Max potential output	Bio-diesel	900	gal/day	
	Ethanol	900	gal/day	
<b>Grain Silos for 2 Grains</b>	<b>Cost</b>	<b>Quantity</b>		
Assume 2200 bu total silo space needed		2200	bu	
Estimate cost per bushel, silo space	\$ 2	per bushel (bu)		
Assume storage for sunflower		2700	bu	
Assume storage for corn		1700	bu	
Total Storage space needed		4400	bu	
Siouxsteel.com - # bushels per silo		977	bu	
# silos needed		3	units	
<b>Total estimated cost</b>	\$ 5,862			<b>\$ 5,862</b>
<b>Conical Bottom Press Funnel</b>	<b>Cost</b>			
Materials	(salvage)			
Labor	\$ -	3 days F/T, Bryan		
<b>Total</b>				<b>\$ -</b>
<b>Corn Grinder</b>	<b>Cost</b>			
<b>Total</b>	\$ 1,000			<b>\$ 1,000</b>
<b>Product Storage</b>	<b>Capacity</b>	<b>Cost</b>		
Diesel	6,000	\$225	(hauling cost only)	
Alcohol	6,000	\$0	(trade)	
Glycerine	4,000	\$0		
Mash (3 tanks)	6,000	\$ 4,800		
<b>Total</b>				<b>\$5,025</b>

<b>Seed Press</b>	<b>Cost</b>	<b>Quantity</b>		
Seed Press	\$ 3,995	3		
Seed Press motor	\$ 2,295	3		
<b>Total</b>				<b>\$ 6,290</b>
<b>Alcohol Still</b>	<b>Unit Cost</b>	<b>Quant</b>	<b>Ext</b>	
Ethanol still plans	\$ 100	1	\$ 100	
Materials for head	\$ 750	4	\$ 3,000	
Ethanol still head valve	\$ 300	4	\$ 1,200	
Ethanol Boiler	\$ 500	2	\$ 1,000	
Labor (8 days F/T, Bryan)	\$ 160	0	\$ -	
<b>Total</b>				<b>\$ 5,300</b>
<b>Other</b>	<b>Cost</b>			
Welder, Portable, Diesel Pwr	\$ 6,200			
welder	\$ 1,815			
4 tanks	\$ 680			
spool gun	\$ 1,000			
1 month worth of supplies	\$ 200			
Wire-feed Welder				
Misc hardware	\$ 3,000			
<b>Total</b>				<b>\$ 12,895</b>
<b>Grand Total</b>				<b>\$ 36,597</b>

## Detailed 12 Month Cashflow Projection

(See PDF file)