

BioPro 380 Cost Per Gallon & Return On Investment Worksheet

This handy worksheet can help you calculate how much your biodiesel will cost to make and how quickly you can expect to recover your initial investment in a BioPro 380 Automated Biodiesel Processor

Change the values in yellow to your actual costs

Constant Costs					
BioPro 380 Machine Cost		\$14,995.00			
BioPro 380 Batch Size (In Gallons)		100			
Usage Fee Per Batch	\$	-	<= Enter how much you'll charge to run a batch		
Labor Cost Per Hour	\$	-	<= Enter how much you'll charge for labor per hour		
Rent Per Month	\$	-	<= Enter how much building space is per month		
Variable Costs	Bulk Cost	Cost Per Unit	Used Per Batch	Per Batch	Per Gallon
Methanol (Per Gallon)	\$165/55 gallon	\$3.00	20	\$60.00	\$ 0.60
Catalyst (KOH) (Per Gram)	\$65/50# bag (22,727 grams)	\$0.00296	4700	\$13.91	\$ 0.14
Electricity (Per Killawatt Hours)	50 kWh @ \$0.10/kWh	\$0.10	50	\$5.00	\$ 0.05
Sulfuric (Per Milliliters)	\$33.18/ 2500 mL	\$0.0130	380	\$4.94	\$ 0.05
Water (Per Gallon)	\$0.01/gal	\$0.010	100	\$1.00	\$ 0.01
Usage Fee (Per Batch)	Pulls From Above	\$0.00	1	\$0.00	\$ -
Labor (Per Minute)	Pulls From Above	\$0.00	90	\$0.00	\$ -
Rent (Per Day-Assuming 30 Days/Mo)	Pulls From Above	\$0.00	1.5	\$0.00	\$ -
Total				\$84.85	\$ 0.85

Savings & ROI Analysis			
Cost To Produce (per gallon)	\$	0.85	
Cost Of Diesel Fuel (per gallon)	\$	3.00	<= Enter current cost of diesel fuel in your area
Cost Savings Per Gallon	\$	2.15	
Cost Savings Per Batch	\$	215.15	
Total Batches Required For Payback		70	
Total Gallons Required For PayBack		6,970	

Total Batches Made		1	<= Enter how many batches you have made
Total Gallons Produced		100	
Total Savings Realized	\$	215.15	