

**Biodiesel Cost/Benefit Analysis 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 on your Biodiesel equipment*

**Change the values in yellow to your actual costs**

| Constant Costs                     |                             |               |                |                |  |
|------------------------------------|-----------------------------|---------------|----------------|----------------|--|
| Cost of Biodiesel Processor        | \$5,995.00                  |               |                |                | <= Enter how much your Biodiesel equipment is      |
| Batch Size of Biodiesel Processor  | 40                          |               |                |                | <= Enter how many gallons per batch you can make   |
| 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)              | \$192.50/55 gallon          | \$3.50        | 8              | \$28.00        | \$ 0.70  |
| Catalyst (KOH) (Per Gram)          | \$65/50# bag (22,727 grams) | \$0.00296     | 1890           | \$5.59         | \$ 0.14  |
| Electricity (Per Killawatt Hours)  | 25 kWh @ \$0.10/kWh         | \$0.10        | 25             | \$2.50         | \$ 0.06  |
| Sulfuric (Per Milliliters)         | \$33.18/ 2500 mL            | \$0.0130      | 150            | \$1.95         | \$ 0.05  |
| Water (Per Gallon)                 | \$0.01/gal                  | \$0.010       | 40             | \$0.40         | \$ 0.01  |
| Usage Fee (Per Batch)              | Pulls From Above            | \$0.00        | 1              | \$0.00         | \$ -   |
| Labor (Per Minute)                 | Pulls From Above            | \$0.00        | 45             | \$0.00         | \$ -   |
| Rent (Per Day-Assuming 30 Days/Mo) | Pulls From Above            | \$0.00        | 1.5            | \$0.00         | \$ -   |
| <b>Total</b>                       |                             |               |                | <b>\$38.44</b> | <b>\$ 0.96</b>                                     |

| Savings & ROI Analysis                 |          |
|--|----------|
| Cost To Produce (per gallon)           | \$ 0.96  |
| Cost Of Diesel Fuel (per gallon)       | \$ 3.27  |
| Cost Savings Per Gallon                | \$ 2.31  |
| Cost Savings Per Batch                 | \$ 92.36 |
| Batches Required For Equipment Payback | 65       |
| Gallons Required For Equipment Payback | 2,596    |

<= Enter current cost of diesel fuel in your area

|                        |          |
|------------------------|----------|
| Total Batches Made     | 1        |
| Total Gallons Produced | 40       |
| Total Savings Realized | \$ 92.36 |

<= Enter how many batches you have made