



Operation and Installaion Costs  
and CO2 emissions comparison  
Direct Solar **Vs.** Grid Power **Vs.** Diesel power  
200 cfm SVE System

System installation and one year of operation		VariSun Solar SVE Skid	Grid Powered SVE skid	Diesel Generator SVE Skid
System installation	ea	\$ 1,200.00	\$ 12,000.00	\$ 2,400.00
SVE skid rental	mo.	\$ 2,400.00	\$ 1,800.00	\$ 1,800.00
Electrical permit	ea		\$ 2,500.00	\$ -
New Service application	ea	\$ -	\$ 2,500.00	\$ -
Service upgrade	ea	\$ -	\$ 20,000.00	\$ -
Generator Rental	mo.			\$ 2,400.00
Electric utility bill. 6 KW for 12 hours per day @ \$0.25 per KWh	mo.		\$ 540.00	
Fuel @ 12 gallon per day (1 gallon per hour)	mo.			\$ 1,980.00
<b>Total Installation:</b>		<b>\$ 1,200.00</b>	<b>\$ 37,000.00</b>	<b>\$ 2,400.00</b>
<b>Annual operation cost ( site visists and maintanace not included)</b>		<b>\$ 28,800.00</b>	<b>\$ 28,080.00</b>	<b>\$ 74,160.00</b>
<b>Total after one year operation:</b>		<b>\$ 30,000.00</b>	<b>\$ 65,080.00</b>	<b>\$ 76,560.00</b>
<b>CO2 emissions per year in pounds(lbs.):</b>		<b>0</b>	<b>4,320.00</b>	<b>322,272.00</b>

2 Lbs per KWh<sup>1</sup>

22.38Lbs. Per gallon of diesel<sup>2</sup>

5 day pilot test		Solar SVE Skid	Grid Powered SVE skid	Diesel Generator powered SVE Skid
System installation	ea			
SVE skid rental	week	\$ 1,800.00		\$ 1,200.00
Delivery	ea	\$ 400.00		\$ 300.00
New Service application	ea	\$ -		\$ -
Service upgrade	ea	\$ -		\$ -
Generator Rental plus delivery	week			\$ 1,650.00
Electric utility bill. 6 KW for 12 hours per day @ \$0.25 per KWh	mo.			\$ 330.00
Fuel @ 40 gallon per day				
<b>Total :</b>		<b>\$ 2,200.00</b>	<b>\$ -</b>	<b>\$ 3,480.00</b>
<b>CO2 emissions 22.38 Lbs. per gallon of diesel<sup>2</sup></b>		<b>0</b>		<b>1,342.80</b>

footnotes:

1- US EPA website

2- US iea 2010 CO2 emissions report