



### Direct Solar Powered Vapor Extraction and Air Injection System The Future of Remediation

#### The Sustainable Technologies' VariSun Solar Pumping System provides the power for 3 phase extraction and injection blower systems.

Sustainable Technologies is proud to present the 3rd generation of VariSun Direct Solar Remediation System. The VariSun systems work with direct solar energy. These Solar systems are self-contained; they are ready to pump upon delivery. The total set-up is just 2 to 3 hours. Our line of Vapor extraction and Air Sparge systems is modular; they come in 3 HP, 5 HP, 7.5 HP and 10 HP. The 10 HP, 3 phase blower will require 4 pods to run. These systems are ideal for sites when power is unavailable or where it's too costly or takes too long to get service. Since the systems are mobile and self-contained; a building permit is not required in most cases; further reducing the deployment time and cost. VariSun systems can be skid or trailer mounted.

Additionally, Sustainable Technologies has a rental fleet that is great for tests since it can be deployed as soon as the client is ready. Our Control system senses the energy available and the work that the blower is doing. The VariSun controls adjust the blower accordingly. The VariSun Remediation systems operate 10 to 12 hours per day in the summer months. About 6 hours the system will run at full speed; the rest of the time at partial flow and vacuum or pressure. For systems that need to operate 24 hrs per day, battery systems are available.

VariSun Solar  
Vapor Extraction Systems





**Sustainable Technologies**



**Solar Remediation**



**SPECIFICATIONS**

<b>VARISUN Solar Vapor Extraction Systems</b>	<b>VS-VE03</b>	<b>VS06-SVE05</b>	<b>VS09-SVE07.5</b>	<b>VS12-SVE10</b>
Rated Power, KW	3.6	6.3	9.5	12
MAX Pump HP rating	3	5	7.5	10
Voltage , 3 Phase VAC	240	240	240	230/480
Max Flow	70 cfm,	200cfm,	300cfm,	350 cfm,
Max Vacuum	90" H2O	100" H2O	135" H2O	150" H2O
Total Footprint, FT	14' x 12'	23' x 12'	33' x 12	44' x 12'
Number of pods	1	2	3	4
Trailer	16' - 4kW	20' - 6.5kW	20' - 9.5kW	(2) 20' - 13kW
<b>VARISUN Direct Solar Air Sparge Systems</b>	<b>VS-AS03</b>	<b>VS-AS05</b>	<b>VS-AS7.5</b>	<b>VS-AS10</b>
Rated Power, KW	3.6	6.3	9.5	12
MAX Pump HP rating	4	6	7.5	10
Voltage , 3 Phase VAC	230	230	230	230-480
Max Flow	30 cfm	44 cfm	79 cfm	150 cfm
Max Pressure	12 psi	22 psi	31 psi	30 psi
Footprint, FT	14' x 12'	28' x 12'	44' x 12	60' x 12'
Number of Pods	1	2	3	4



# Sustainable Technologies



## Solar Remediation

The vapor extraction or air sparge systems are mounted inside the Self standing solar pod or trailer. One 3 KW pod can run a 3 HP, 240 VAC, 3Phase blower. The pod wings of the trailer fold down for transportation allowing the systems to be shipped or to be transported and deploy on flatbed trailer.

A 20 foot flatbed trailer can transport two pods at a time. The Vapor Extraction systems come with regenerative or rotary claw blowers; a steel 50 gallon water knockout tank with high level switch, 4 - 10 well manifold. An Air flow meter and vacuum transmitter are standard on the units. A telemetry package connects the system to the internet.

The Air Sparge Systems use a Busch rotary claw blower for efficiency and reliability. The custom manifold includes rotor meters and pressure indicators. The system can be trailer mounted for added mobility.

*We design and build systems customized to fit your project site.*

*VariSun Remediation Systems are fast to deploy, cost effective, clean, simple and very reliable.*

*The future of remediation*



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*Sustainable Technologies has been building and installing remediation systems since 1999*