



Sustainable Technologies



for a sustainable future



Statement of Qualifications

- Environmental Remediation
- Solar Energy
- Solar Leachate Pumps
- Energy Efficiency
- Biogas



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Alameda, CA 94501
(510) 523-1122
www.sustech.cc

**Lic# 772329 A, C10, HAZ
LIABE, SBE, VSBE, MBE
Bay Area Green Business
8(a) Certified**



NAICS: 562910, 562212
541690, 238990, 238210
221310, 221122, 221119



Sustainable Technologies



for a sustainable future



Sustainable Technologies is an environmental construction company providing design and installation of remediation and solar electrical systems. We are comprised of environmental professionals sharing the common goal of improving the urban environment by creating alternatives for a sustainable future.

We are a minority-owned and minority staffed company with a M.B.E. certification by Supplier Clearinghouse & Northern California Supplier Development Council. The majority of our clients are consulting and engineering firms, as well as oil companies, system integrators, and individuals. We have built numerous systems for Shell, Chevron, Valero, BP and Conoco Phillips.



The success of our company is based on a team of qualified engineers and electricians with a demonstrated ability to design, manage, and build electrical and construction projects quickly and affordably.



Each associate has a multi-disciplinary background with the skills and expertise to provide high quality environmental services to all of our clients.

In our 10 years of operation we have built over 200 complete remediation systems and fabricated package treatment systems at our shop in Alameda. We have installed 450 kW of Solar Electrical Systems throughout Northern California. We design and build 10-12 control panels per year.



Sustainable Technologies



Environmental Remediation



Clients:

Blue Rock Environmental
Cameron-Cole Environmental
Chevron
Conestoga-Rovers & Associates
Delta Environmental
Horizon Environmental
Pangea Environmental
Petroleum Sales, Inc.
Shell Oil
Time Oil
Unocal 76
Valero / Ultramar

Sustainable Technologies has installed more than 200 complete vapor extraction, groundwater, dual phase and sparging systems. Our remediation systems are functional, economical, and result in a high degree of client satisfaction. Our crew is used to working in high traffic zones such as filling stations and other urban centers.

Our extensive field experience working with a wide range of systems, combined with our electrical, mechanical, and troubleshooting skills results in excellent field services at very competitive rates. When asked to design and install systems, ST combines environmental and technical expertise to create reliable and inexpensive systems. From a simple blower skid to sophisticated, fully automated systems, ST can provide the professional expertise to meet your needs without sacrificing quality.

OUR SERVICES

Service Provided:

Turnkey systems
Groundwater treatment systems
Vapor systems
Electrical service drops
Excavation
Control panel design
& fabrication
Green Remediation

Design, Fabrication and Installation of Electrical Control Panels

We specialize in the design and fabrication of electrical control panels. Our prices are more competitive than other industrial fabrication houses. Our capabilities include installation of remote telemetry systems for monitoring and controlling system operation, as well as solar-powered stand-alone systems.

Site Specific Feasibility Testing

We conduct vapor extraction tests, air sparging tests, dual extraction and groundwater pumping tests to determine which remedial approach suits the specific needs of your site. We provide the raw data to you or prepare a detailed summary complete with data interpretation, whichever you prefer.

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Remediation System Design and Fabrication

We design and fabricate remediation systems to extract hydrocarbons or other contaminants from an impacted site.

System Installation

Our personnel are experienced with the installation of remediation systems and interfacing electro-mechanical control systems to monitor and automatically control operation of installed equipment



Subsurface Excavations and General Engineering

Supervised tank excavations and line replacement, soil over-excavation and disposal. On-site soil aeration, and soil management including bio-remedial approaches.

Field Repairs

We excel at troubleshooting and repairing existing remediation systems that may be out of service due to neglect. We have the expertise to repair most electrical and mechanical problems for all types of systems to efficiently and quickly bring them on-line. We also provide major tune-ups and preventative maintenance for internal combustion engines,



including groundwater treatment systems. We provide complete documentation of all work performed and provide recommendations to increase system efficiency and run-time.

Other Services

We offer technical field support, which includes equipment installation, setup, and operation and maintenance (O&M). When necessary, we locate obscure hardware items in order to fix an existing system or to complete the installation of a groundwater treatment or vapor extraction system. We also provide technical support when installing pressure transducers, oxygen and combustible gas sensors, and data loggers.



**Stand Alone Solar
Leachate Pumping System**

Technician Training Services

While Sustech fixes your problems, we can also train your technicians and personnel, to bring them up to speed for troubleshooting and maintaining installed remediation systems. This is an in-the-field training program designed to increase the working knowledge of your technical staff by instructing them in the theory and application behind installed equipment.



COMPLETED PROJECTS REMEDIATION & GROUNDWATER TREATMENT SYSTEMS

GROUNDWATER TREATMENT SYSTEM

Location: Defense Distribution Depot San Joaquin, Tracy, CA
System Description: Construction of Groundwater Treatment System at an active military facility
Total Cost: \$127,000
Date: December 2011
Client: HDR
Project Engineer: Steven Herrera, PE

RECYCLING SYSTEM

Location: Alameda, CA
System Description: Construction of a self-contained recycling system
Total Cost: \$35,500
Date: August 2011
Client: Rare Earth Recovery
Project Engineer: Sonam Gyaltzen

CONTROL PANEL

Location: Tustin, CA
System Description: Control Panel for Ground Water Treatment System
Total Cost: \$8,000
Date: October 2011
Client: American Integrated Services / Shell
Project Engineer: Richard Ko

TWO PHASE EXTRACTION TREATMENT SYSTEM

Location: Concord, CA
System Description: Construction of Remediation
Total Cost: \$49,264
Date: September 2011
Client: Pangea Environmental
Project Engineer: Morgan Gillies

MULTIPHASE EXTRACTION TREATMENT SYSTEM

Location: San Jose, CA
System Description: Soil Vapor Extraction and Ground Water Treatment System
Total Cost: \$171,119
Date: July 2011
Client: Stantec / Chevron
Project Engineer: Adrian Perez

BIOREMEDIATION CONTROL SYSTEM

Location: Sunnyvale, CA
System Description: Construction of Groundwater Bioremediation Control System
Total Cost: \$345,766
Date: July 2009
Client: Cameron Cole Environmental / Lockheed
Project Engineer: Mike Stephenson

MULTIPHASE EXTRACTION SYSTEM

Location: Rohnert Park, CA
System Description: Design Electrical Controls & Construction of Groundwater Extraction System
Total Cost: \$102,000
Date: August 2008 - April 2009
Client: Cameron-Cole Environmental
Project Engineer: David Cochran, PE

POWER GENERATION

Location: Leviathan Mine, Alpine County, CA
System Description: Propane generators & deep cycle battery system for a remote off-grid remediation project at an EPA mine cleanup site
Total Cost: \$120,000
Date: October - December 2008
Client: AMEC Geomatrix
Project Engineer: Spencer Thomas Archer, PE

20 WELL TWO-POINT INJECTION AND TREATMENT REMEDIATION SYSTEM

Location: South Lake Tahoe, CA
System Description: Design Electrical Controls & Construction of Oxygen/Ozone Injection System
Total Cost: \$76,200
Date: September / October 2006
Client: Cambria Environmental Technologies / Chevron
Project Engineer: Ragnar Stefansson



Solar Power



Clients:

Blue Rock Environmental
Canadian American Oil
Cooperative Community Energy
Golder Associates
Powerlight
Town of Tiburon

Service Provided:

Grid-tie Solar PV Systems
Energy Analysis
Design
Engineering
Electrical
Construction

We also provide energy efficiency retrofits and design off-grid power generation systems for remote areas

Sustainable Technologies also specializes in the design, fabrication, and installation of grid-tied photovoltaic solar systems. Our designs maximize energy generation and aesthetics and help to reduce the carbon footprint through renewable energy output.

Each successful installation is accomplished through seven major tasks:

Safety on the job site: We comply with OSHA regulations for hazardous materials, environmental controls, occupational health, electrical, stairways and ladders, etc.

Site assessment: Evaluation of roof, solar access, electrical service equipment.

System design: Perform energy audit to evaluate potential savings and conservation gains. Perform energy analysis to determine energy needs. Size system to those needs. After site visit and customer approval, design roof and electrical equipment layout. Check with appropriate municipal planning department and assemble building package.

Adapting the mechanical design: An engineer will decide how best to install all the parts so the system will be safe, perform as advertised, and look aesthetically pleasing.

System installation: Our personnel follow proper and safe installation procedures. Systems are installed by solar engineers and journey level electricians that have worked together for years.

System checkout: Our Project Manager checks the entire system to ensure that the labor has been done according to the system schematic diagram, manufacturers' specifications, and in a "workmanlike manner" (NEC 110.12).

Maintaining & Troubleshooting: As a post sale service and part of our warranty, we are always ready to troubleshoot any of our installations.



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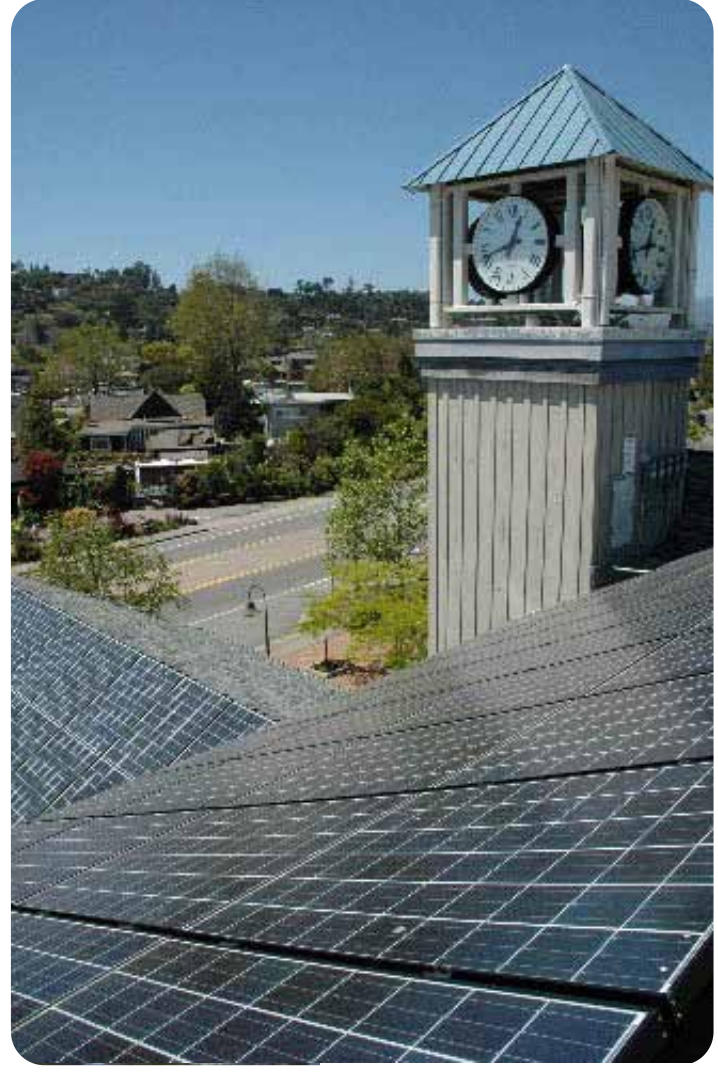
Solar Power

Clockwise, from R:

Town of Tiburon Town Hall - 21kW

Shell Service Station, San Francisco - 30kW

Hayward Public Works Building - 45kW





COMPLETED PROJECTS

SOLAR ELECTRICAL PV

SOLAR WEATHER STATION

Location: Leviathan Mine, Alpine County, CA
System Description: 960 Watt Solar-powered weather station for a remote off-grid remediation project at an EPA mine cleanup site
Total Cost: \$26,000
Date: September 2011
Client: AMEC Geomatrix
Project Engineer: Josh Howard, PE

SOLAR LEACHATE PUMP SYSTEMS

Location: Apex Landfill, Nevada
System Description: 1600 Watt System with Submersible pumps
Total Cost: \$36,000
Date: December 2010
Client: Republic Dumpco
Project Manager: Todd Whittle

TOWN OF TIBURON TOWN HALL

ELECTRICAL PV INSTALLATION
Location: Tiburon, CA
System Capacity: 21kW
Total Electrical Installation Cost: \$57,000.00
140 Modules (KC190), 5 SMA Inverters, 110 Amp, 208 volts, 3 Phase disconnect
Electrical Design & Construction
Date: May 2006

DIVISADERO SHELL SERVICE STATION

ENGINEERING AND CONSTRUCTION
Location: San Francisco, CA
System Capacity: 30 KW
Total electrical Installation Cost: \$78,700.00
216 modules, 12 SMA Inverters, 200Amp disconnects
Electrical design, Engineering, and Construction
Date: August 2004
Client: Roy Shimek -Canadian-American Oil Corp.

ALAMEDA COUNTY WINTON BUILDING

ELECTRICAL PV SYSTEM INSTALLATION
Location: Hayward, CA
System Capacity: 225 KW
Total electrical Installation Cost: \$95,100.00
1550 modules, 4 combiner boxes, 800Amp disconnects
electrical design
Date: Summer 2004
Client: Powerlight Corp.

ALAMEDA COUNTY OFFICE OF EMERGENCY SERVICES

ELECTRICAL PV SYSTEM INSTALLATION
Location: Dublin, CA
System Capacity: 100 KW
Total electrical Installation Cost: \$65,200.00
450 modules, 2 combiner boxes, 400Amp disconnects
electrical Installation
Date: Fall 2004
Client: Powerlight Corp.



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Our Team

Our team member's background and qualifications in the Remediation & PV industry can be summarized as follows:

The Principal - Ernesto Montenero

- ◆ More than 14 years operating a remediation & solar company
- ◆ More than 25 Years Experience Electrical Design & Installation, Environmental Restoration and Construction
- ◆ Over 15 years Experience Building Groundwater Treatment Systems
- ◆ Solid Waste Program Designer, City of Guayana, Venezuela
- ◆ Electrical Controls Design
- ◆ Certified Permaculture Designer
- ◆ 29 CFR OSHA Certified
- ◆ B.S. Environmental Science, Technology, and Management
- ◆ Certified Electrician
- ◆ Licensed Contractor General Engineering A and Electrical C-10, HazMat, HIC. Lic. # 772329
- ◆ Energy Efficiency Auditor
- ◆ NABCEP Certified



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The Associates



James Bauer

- ◆ More than 10 Years Experience in Environmental System Installation & Construction Management
- ◆ 29 CFR OSHA Certified
- ◆ Competent Person
- ◆ Heavy Equipment Operator
- ◆ PLC programmer
- ◆ Microsoft Certified Systems Engineer

David Hammond: M.S. PhD

- ◆ Strategist for integrated systems development
- ◆ Sustainable resources management

Maurice Montenero

- ◆ More than 21 years architectural experience
- ◆ 6 years experience as Senior Designer in San Francisco, which included but not limited to meet with zoning, planning and building commissions in the City.
- ◆ 3 years experience working in San Jose area

Our Crew

- ◆ Experienced and safe construction specialists in underground excavation, plumbing, electrical, digging, logistics, equipment operation, procurement, mechanical repairs and concrete finishing.
HAZWOPER, LPS, API Worksafe™





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Customer References

Daniel Lescure

Senior Project Engineer
Conestoga-Rovers & Associates
(510) 420-3306

Brian Busch

Senior Project Geologist
Pangea Environmental
(510) 836-3701

Scott Ferriman

Principal Scientist
Blue Rock Environmental
(707) 441-1934

Contact Information

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