Opto 22 Sustainability Statement

As a company, Opto 22 is profoundly aware of and concerned with the need to preserve, restore, and improve both our local and global environment. This concern is reflected in our manufacturing operations and, more broadly, in our day-to-day business practices, which consistently promote sustainability, conservation, and pollution prevention.

OptoGreen—Our Work Towards Sustainability

Opto 22 has taken significant measures towards adopting and implementing environmentally-conscious policies and initiatives.

- Opto 22 outlined and implemented a full-scale, company-wide energy conservation and reduction plan. Started in June 2006, this plan has reduced overall water usage, established more energy efficient HVAC systems, maximized use of natural sunlight over electric lighting, and resulted in a 29% reduction in Opto 22's overall power consumption over the previous 12 months. (Read the details about Opto 22's Carbon Footprint Reduction Initiative in Opto 22 form number 1727.)

- Opto 22 developed a corporate-sponsored program, OptoGreen Grants, to encourage, support, and help fund research organizations, educational institutions, and government agencies dedicated to researching, developing, sourcing, and producing alternative energy, renewable energy, the conservation of natural resources, and environmental responsibility through the application of automation technology.

- Opto 22 has begun an environmental education program to educate its employees on the importance of environmental awareness and responsibility both in the workplace and at home. Key individuals in senior management (including our CEO) and members of the engineering team have made personal, more environmentally-friendly decisions and now drive hybrid vehicles or bike to work.

- Opto 22 actively recycles: employees recycle lunchroom cans and plastics, and the manufacturing facilities recycle all light bulbs, glass, and aluminum, as well as wires, lead trimming, solder dross and other production waste.

Customers Committed to Sustainability

Opto 22 actively seeks out, supports, and provides automation products for customers that are committed to conservation, decreasing power consumption, and other eco-friendly initiatives. These companies include:

- Verizon Communications, New York, NY

- PepsiAmericas, Minneapolis, MN

- New Belgium Brewery, Fort Collins, CO

- Clear Edge Power, Hillsboro, OR

- Sotavento Power Plant, Galicia, Spain (See case study, Opto 22 form 1797.)

- Alsum Produce, Randolph, Wisconsin (See case study, Opto 22 form 1539.)

Opto 22 Sustainability Statement

Partners Working Towards Sustainability

Similarly, Opto 22 provides systems and components for many original equipment manufacturers (OEMs) and systems integrators that use our products to promote or provide energy efficiency, environmental protection and remediation, and alternative energy solutions. These companies include:

- Advanced Energy Control (AEC), Randolph, WI
  (See Opto 22 form 1539 for a case study on Alsum Produce, one of AEC's many energy management projects.)
- Marine Interface, Deer Park, NY
  (See Opto 22 form 1653 for a case study on Marine Interface's energy management project for Verizon Communications)
- Kundinger Controls, Auburn Hills, MI
- Current Environmental Solutions, Pasco, WA

OptoGreen Grants

OptoGreen Grants provide Opto 22 automation hardware and software to customers who are working on products, research, or services related to renewable or alternative energy. To apply for an OptoGreen Grant or for more information, see Opto 22 form 1732.

Some recipients of OptoGreen Grants include:

- State University of New York (SUNY) New Paltz Department of Electrical and Computer Engineering—renewable energy for farms
  (case study in form 1782)
- University of California (UC) Irvine Henry Samueli School of Engineering—research on coal and biomass combustion
  (case study: form 1806)

More About Opto 22

Products

Opto 22 develops and manufactures reliable, flexible, easy-to-use hardware and software products for industrial automation, remote monitoring, and data acquisition applications.

SNAP PAC System

Designed to simplify the typically complex process of understanding, selecting, buying, and applying an automation system, the SNAP PAC System consists of four integrated components:

- SNAP PAC controllers
- PAC Project™ Software Suite
- SNAP PAC brains
- SNAP I/O™

SNAP PAC Controllers

Programmable automation controllers (PACs) are multifunctional, multidomain, modular controllers based on open standards and providing an integrated development environment.

Opto 22 has been manufacturing PACs for many years. The latest models include the standalone SNAP PAC S-series and the rack-mounted SNAP PAC R-series. Both handle a wide range of digital, analog, and serial functions and are equally suited to data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

SNAP PACs are based on open Ethernet and Internet Protocol (IP) standards, so you can build or extend a system without the expense and limitations of proprietary networks and protocols.

PAC Project Software Suite

Opto 22's PAC Project Software Suite provides full-featured and cost-effective control programming, HMI (human machine interface) development and runtime, OPC server, and database connectivity software to power your SNAP PAC System.

These fully integrated software applications share a single tagname database, so the data points you configure in PAC Control™ are immediately available for use in PAC Display™, OptoOPCServer™, and OptoDataLink™. Commands are in plain English; variables and I/O point names are fully descriptive.

PAC Project Basic offers control and HMI tools and is free for download on our website, www.opto22.com. PAC Project Professional, available for separate purchase, adds OptoOPCServer, OptoDataLink, options for Ethernet link redundancy or segmented networking, and support for legacy Opto 22 serial *mistic*™ I/O units.

SNAP PAC Brains

While SNAP PAC controllers provide central control and data distribution, SNAP PAC brains provide distributed intelligence for I/O processing and communications. Brains offer analog, digital, and serial functions, including thermocouple linearization; PID loop control; and optional high-speed digital counting (up to 20 kHz), quadrature counting, TPO, and pulse generation and measurement.

SNAP I/O

I/O provides the local connection to sensors and equipment. Opto 22 SNAP I/O offers 1 to 32 points of reliable I/O per module, depending on the type of module and your needs. Analog, digital, serial, and special-purpose modules are all mixed on the same mounting rack and controlled by the same processor (SNAP PAC brain or rack-mounted controller).

Quality

Founded in 1974 and with over 85 million devices sold, Opto 22 has established a worldwide reputation for high-quality products. All are made in the U.S.A. at our manufacturing facility in Temecula, California. Because we do no statistical testing and each part is tested twice before leaving our factory, we can guarantee most solid-state relays and optically isolated I/O modules for life.

Free Product Support

Opto 22's Product Support Group offers free, comprehensive technical support for Opto 22 products. Our staff of support engineers represents decades of training and experience. Product support is available in English and Spanish, by phone or email, Monday through Friday, 7 a.m. to 5 p.m. PST.

Free Customer Training

Hands-on training classes for the SNAP PAC System are offered at our headquarters in Temecula, California. Each student has his or her own learning station; classes are limited to nine students. Registration for the free training class is on a first-come, first-served basis. See our website, www.opto22.com, for more information or email training@opto22.com.

Purchasing Opto 22 Products

Opto 22 products are sold directly and through a worldwide network of distributors, partners, and system integrators. For more information, contact Opto 22 headquarters at 800-321-6786 or 951-695-3000, or visit our website at www.opto22.com.

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