

Application Brief: New Enterprise Stone & Lime Co., Inc.



The Challenge

At a Stone quarry in Roaring Spring, PA, two powerful 6 in. (15 cm) pumps remove millions of gallons of water each year that builds up from rainfall and runoff. The quarry is one of many mined throughout central Pennsylvania by New Enterprise Stone & Lime Co., Inc. (NES&L), a supplier of aggregate, crushed stone, hot mixed asphalt (HMA), ready-mixed concrete, and other construction materials to customers throughout the northeastern United States.

The stone quarry is not the kind of place you want to walk into to check a pump. So NES&L Automation Manager Ashley Fleck needed a remote management system for the quarry's unattended pump control system. He wanted electricians and mining technicians to be able to monitor and control the pumps from PCs at company headquarters, and from smartphones and other wireless devices on site.

Since the pump control system uses an Opto 22 SNAP PAC R-series controller and SNAP I/O hardware, Opto 22 products were already on Fleck's radar.

The Solution

Fleck had heard about *groov* from his regional Opto 22 sales engineer and ordered the *groov* Box hardware appliance.

"*groov* turned out to be the perfect tool for the project," he explains. "We quickly built a web-based interface for the pump control system."

The *groov* interface, running in a browser on a PC, smartphone, or other device, shows key information like operational status, current draw, flow rate, and the water level in the quarry. If additional information is needed later, it can be easily added to the interface.

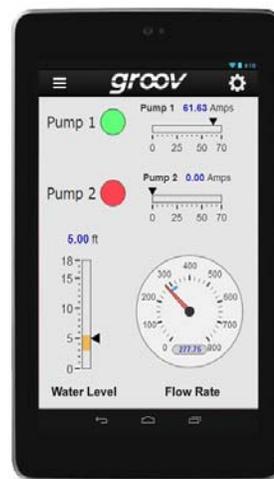
The process of developing and deploying an HMI with *groov*, says Fleck, was "super easy."

The Customer

New Enterprise Stone & Lime Co., Inc.

About Opto 22

Opto 22 develops and manufactures hardware and software for applications involving industrial automation and control, energy management, remote monitoring, and data acquisition. Designed and made in the U.S.A., Opto 22 products have an established reputation worldwide for ease of use, innovation, quality, and reliability. Opto 22 products, which use standard, commercially available networking and computer technologies, are used by automation end-users, OEMs, and information technology and operations personnel in over 10,000 installations worldwide. The company was founded in 1974 and is privately held in Temecula, California, U.S.A. Opto 22 products are available through a global network of distributors and system integrators. For more information, contact Opto 22 headquarters at +1-951-695-3000 or visit www.opto22.com.



Pump operational status and current draw is available on a compact tablet.