

## CELLULAR FACILITY

POWER SOLUTIONS  
CASE STUDY of  
**VERIZON  
COMMUNICATIONS, INC.**



## TWENTY YEARS ON THE JOB — AND STILL GOING STRONG

### UNITS

45 kW Diesel Gensets

### LOCATION

Castro Valley, California

A long, long time ago on a hilltop far, far way, a new standby generator was installed to support a recently constructed communications facility. More than twenty years, four presidents, and many earthquakes later, the “little generator that could” is still on duty at the Verizon communications center that keeps Castro Valley, California connected. The generator that has so faithfully served for the past two decades — and is still going strong — is a 45 kilowatt Generac genset featuring a 6.4 Liter Hino diesel engine.

Hino, the industrial component of Toyota, develops, manufactures, and markets diesel trucks and buses. For more than a quarter century, Hino has been the foremost builder of medium and heavy-duty diesel trucks in the Japanese market, acclaimed for manufacturing quality and technological excellence. Its engines are renowned for power, durability, and long life, as this example proves.

Verizon Communications, Inc. is one of the world's leading providers of communication services, with nearly 248,000 employees and more than \$67

billion in annual revenues. Verizon companies are the largest providers of wireline and wireless communications in the United States, with over 33 million access line equivalents and almost 30 million wireless customers.

In addition to a strong domestic market, Verizon has a global presence as well. The company operates within 20 countries, and covers another 25, reaching more than 9 million customers worldwide in the Americas, Europe, Asia, and the Pacific. Installed in June of 1981 by Energy Systems of Stockton, California, the hilltop generator supports an unmanned Verizon communications facility just off Interstate 580 near Dublin, California. This site, along with three others in the immediate area, is critical to the Verizon cellular network in this region. The standby genset is equipped with a 30 gallon day tank and a 500 gallon underground reservoir to allow it to continue operating during extended outages.

“

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The unit installation coincided with the construction of the Verizon tower, which was built to meet the demands of the burgeoning cellular phone industry in the early 80's. At the time, it was Verizon's primary facility in that locale, supporting the entire area. Since then, the company has added other facilities in the region, many of them with Generac generators providing standby power.

The Castro Valley communications facility is protected by a double-redundancy system with

a battery backup to function during momentary outages, or in the event of generator failure. Fortunately, in over 21 years of service at this site, that's a situation Verizon has never had to deal with. "The generator has always started when it was needed," says Richard Day, who was in charge of overseeing the operation of many Verizon sites in the 80's and 90's. "Generac makes a good product."

## **GENERAC®**

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