

**CASE STUDY**



# OmniMetrix™ Remote Generator Monitors Provide Proactive Approach for Historic University

George Mason University is one of the more historic universities in the United States. George Mason, for whom the university is named, was one of the founding fathers of the United States. Mason also drafted the Virginia Declaration of Rights, which became a model for the first 10 U.S. Constitutional Amendments. With more than 34,000 students, 10 schools and colleges spread across 670 acres, George Mason University is Virginia's largest public research university.

Partnering with Bay Diesel & Generator, George Mason University wanted to ensure campus buildings remain operational during power outages, reduce the time utility power was lost and create efficiencies across the University. With such a large campus and Facilities Management employees living over 30 miles away, the University realized it was no longer practical to manage its buildings and to know a generator is still running without remote monitoring.

*"OmniMetrix provides us the awareness of what's happening when we're not here. It gives us the ability to manage our generators from afar, reduce fuel consumption and minimize the amount of time we are without power."*

- Tad Drenenberger, Director of Facilities Management, George Mason University

*"It doesn't take long to burn a lot of unnecessary fuel when a generator is running under full load after power has been restored. Typically per 100kW of a generator's size it will use 7.5 gallons of fuel every hour."*

- David Bratton, VP Western Region, Bay Diesel

Currently the University has 35 generator monitors in place with plans to install more. The OmniMetrix TrueGuard PRO™, in conjunction with its cloud-based monitoring platform, OmniView™, has enabled George Mason University to be proactive regarding its facilities. With instant alarm notifications via email and text message, Facilities Management can quickly contact its energy provider when utility power is lost, thus reducing the length of the outage. OmniView allows Facilities Management to login remotely to ensure the generator has shutdown after power has been restored. This proactive approach reduces fuel costs and provides peace of mind to Facilities Management.

Generator Size	¼ Load (gal/hr)	½ Load (gal/hr)	¾ Load (gal/hr)	Full Load (gal/hr)
75kW	2.4	3.4	4.6	6.1
100kW	2.6	4.1	5.8	7.5
125kW	3.1	5.0	7.1	9.1

**Customer:**

George Mason University

**Location:**

Fairfax, VA

**Equipment:**

35 TrueGuard Pro™



**Key Value Drivers:**

- Manage System Remotely
- Confirm Generator Shutdown
- Faster Response Time

**Fuel Savings (1 hr):**

Fuel Used (gal)	7.50
Fuel cost (\$/gal)	\$2.50
Generators	35
<b>Total Fuel Savings</b>	<b>\$655</b>