

# U.S. Navy



## Meeting Energy Demands for the Naval Surface Warfare Center

After serving as an important shipyard for nearly 200 years, The Navy Yard in Philadelphia was transformed into a large industrial park. While many of the U.S. Navy's activities at the shipyard ended in 1990s, the department maintains an inactive ship maintenance facility and conducts some engineering activities at the site. In 2016, construction and installation delays on a permanent 20MW plant at NSWC prompted the Navy to solicit bids for an auxiliary power unit that could meet the demands of its energy intensive testing activities.

In February of 2017, APR Energy was awarded a contract by the U.S. Navy to supply 20MW of continuous power to support research, development, and testing activities at the Naval Surface Warfare Center. In mid-March, APR Energy's aeroderivative mobile gas turbine arrived by ship at the Port of Philadelphia – along with a winter storm that dumped more than a foot of snow on the region. Despite the severe weather, the turbine was on site at NSWC the following day and installation began immediately. Over the next three weeks, the APR Energy team prepared to commission the plant, installed a demineralized water system to reduce emissions, and connected the turbine to The Navy Yard's natural gas system. The 20MW auxiliary power unit became operational, meeting the U.S. Navy's aggressive delivery schedule. Running on clean natural gas and equipped with a 31-foottall exhaust stack, the plant meets strict U.S. emissions requirement, while delivering continuous power to support important and secure military equipment testing.



### IMMEDIATE POWER

Only one month after on-site arrival of turbines, the plant was operational, immediately assisting the need for power while bridging to a permanent plant.

APR Energy's low-emission generation met strict environmental requirements.



### SUPPORTING MILITARY POWER

APR Energy delivered 20 MW of continuous power to support important and secure military equipment testing, research and development.

### 1 TM2500 GEN8 gas turbine



### LOOKING TOWARD THE FUTURE

After successfully fulfilling its original temporary power project, APR Energy was awarded an Operations and Maintenance Contract to continue ongoing power generation services.