

Japan



NATURAL DISASTER CAUSES MASSIVE DAMAGE TO NUCLEAR POWER INFRASTRUCTURE

After of the largest earthquakes in Japan’s history, and subsequent tsunami, Tokyo Electric Power Company (TEPCO) had to take down several generators, and multiple nuclear reactors suffered explosions. Power needs for rebuilding and disaster recovery were immediate, with little time for construction or setup. APR Energy installed a 203MW customized emergency power solution for TEPCO across two sites, Hitachinaka and Yokosuka. The solution consisted of five gas turbines that were airfreighted for immediate availability and diesel power modules, as well as all necessary transformers, consumables, mobilization to the port of entry, and supervision over electrical installation and fuel storage construction. APR Energy’s turnkey approach included complete operational oversight, maintenance of the plant, and alignment with Japan’s environmental requirements. By July 1, 2011, only days after the last delivery of equipment arrived on site, both plants were fully operational, with the capacity to deliver up to 203MW of power to the TEPCO grid to alleviate load shedding and blackouts. Due to on-going concerns about nuclear energy and the potential for power shortages during the peak-demand winter season, TEPCO extended the contract at the Yokosuka site until 2013.



IMMEDIATE NEED

Japan needed immediate energy solutions for rebuilding and disaster recovery, with little time for construction or set up.



DANGEROUS ENVIRONMENT


Nuclear reactors suffered explosions as a result of hydrogen built-up, creating fear of radiation exposure during the project.




MULTIPLE SITES

APR installed a 203MW customized emergency power solution across two sites, Hitachinaka and Yokosuka.

203MW
Alleviating shedding & Blackouts



5 Gas turbines



9.0 A 9.0-magnitude earthquake, one of the largest in recorded history, hit the northeastern coast of Japan in 2011. The earthquake, and subsequent Tsunami, caused a loss of 21GW of Japan’s total capacity.