aggreko

Providing optimized, engineered power solutions for USS Hartford, nuclear submarine overhaul

CUSTOMER

Defense Contractor – General Dynamics Electric Boat

LOCATION

GDEB Graving Dock - Groton, CT

SECTOR

Government, Military and Shipbuilding

KEY FACTS

$50,349

Project revenue per month

2,500 V

Speciality transformers used to help power the project

EXECUTIVE SUMMARY

A US NUCLEAR SUBMARINE NEEDED OVERHAUL AND REQUIRED SUITABLE POWER TO COMPLETE THE 3+ YEAR-LONG PROJECT.

WE PARTNERED WITH GENERAL DYNAMICS ELECTRIC BOAT AND ENGINEERED A SOLUTION THAT OFFERED AN ALTERNATIVE TO USING THEIR HIGH-VOLTAGE ON-SITE POWER, CUTTING THEIR COST BASED ON THEIR INITIAL REQUEST

MULTIMILLION $$ TCO SAVINGS FOR THE CUSTOMER FROM AN ESTIMATED USD 13+ MM SUBMARINE OVERHAUL.

OUR TECHNICAL TEAMS RECEIVED COMMENDATION FOR DELIVERING UNIQUE TECHNICAL PROFICIENCY AND CUSTOMER SERVICE.

THE CHALLENGE

Cost and limited space

Aggreko was contacted by General Dynamics Electric Boat to help power the overhaul of a US nuclear submarine, the USS Hartford.

After an initial consultation, we knew that their request to use traditional diesel generators would be an inefficient and expensive solution.

The high demand on the existing infrastructure in the US shipyard was putting pressure on their facilities. There was simply no room to fit the number of generators needed for the job.

THE SOLUTION

Aggreko technical expertise

Rather than choosing a diesel solution that would've cost them millions in fuel costs, we proposed and engineered a solution that involved stepping-down their high-voltage on-site power, whilst reducing emissions and noise at the same time.

We installed specialty 2,500 V power transformers to help them get the power they needed to a usable voltage and distributed it around the site.

CUSTOMER TESTIMONIAL

...I wanted to let you both of you know what an amazing job **Aggreko** did supporting the **HARTFORD Load House project.** All of the Aggreko guys that worked on the project worked hard every day and were willing to do whatever the job required. I look forward to the opportunity to work with **Aggreko** again soon. If it were possible to give this team some sort of recognition for a job well done, they certainly deserve it.

- Customer Project Manager

THE IMPACT

Millions of dollars saved at a General Dynamics Electric Boat shipyard

Due to Aggreko Sales and Engineering's, quick and out-of-the-box thinking, we saved our customer millions on rental and fuel costs. We helped our customers see the full picture and keep their environmental footprint down to a minimum.

BEFORE

- Expensive rental and fuel costs
- Inefficient diesel generators
- Lack of space and pressure on existing infrastructure
- Large diesel generators used to power the project

AFTER

- Inexpensive rental and fuel costs
- Viable solutions for lack of space
- 2,500 V specialty transformers used to help power the project
- Project revenue: $50,349.00 per month
- Leveraged a number of other jobs (5) for this ship with this savings and offerings
- Approx $142,786.00 per month plus labor, approx 2693.25 man hours @ $180hr = $484,785