

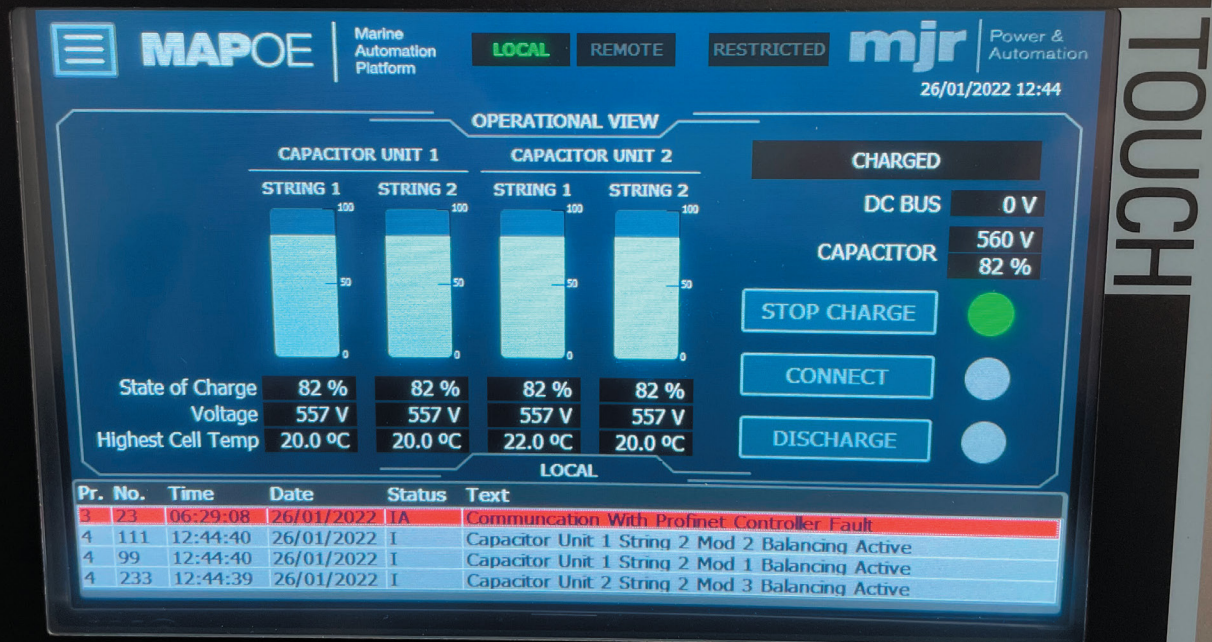
CASE STUDY

Client: TechnipFMC

Project: Pipelay Energy Storage System



Power &
Automation



Project Summary

MJR was appointed to improve capabilities on the TechnipFMC Deep Energy vessel.

This included the integration of a pipelay extended supply failure ride-through system, the first of its kind in the world. One of the largest pipelay vessels ever constructed, Deep Energy has the capability to install rigid and flexible pipe, and umbilicals in water depths of up to 3,000 metres.

Challenge

- A vessel pipelay tower with both tandem upper and lower tensioners
- The need for complete synchronicity between both tensioners
- The necessity to eliminate the possibility of any blackouts during operations that cause a sudden and uncontrolled stop



The Solution

- The integration of the pipelay extended supply failure ride-through system, the first in the world
- The first supercapacitor system globally to comply and be certified by to the new DNV-GL regulations
- The provision of an energy storage solution, delivering instantaneous back-up power for a controlled safe stop and bridging any power gap until the main backup system could respond
- A system fully tested at the MJR plant prior to vessel install
- An improvement to the operation safety of the vessel
- An increase in equipment availability and product protection
- A complete, not intrusive integration and installation with minimal risk to the existing system
- An optimised solution for CAPEX compared with other storage alternatives
- The integration of a proven technology, delivering lifetime operation and minimal maintenance requirements.



Why MJR Power & Automation

- A full turnkey engineering solution from simple repair to complex end to end design, build, installation and commission
- A track record in delivering complex offshore equipment systems
- A team of highly experienced, in-house practitioners delivering all aspects of electrical power, automation and electronic engineering
- A pool of industry talent meaning zero subcontracting
- A pedigree of knowledge and expertise in implementing deck equipment and marine classification society rules
- A history of customer confidence delivering complex offshore projects, unrivaled standards of management, industry leading quality and safety standards and a reputation for consistently delivering on time and in budget.



Design



Engineering



Construction



Installation



Service

MJR Power & Automation



Head Office +44 (0) 1642 762 151



Aberdeen +44 (0) 1224 507 082



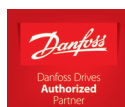
sales@mjrpower.com

www.mjrpower.com

Delivering Marine, Offshore &
Energy Solutions in
Partnership with:



Drives & Controls
System Integrator
Marine & Offshore



SKELETON
TECHNOLOGIES

SHIFT
+ 2 CLEAN ENERGY