

# Who Is CPower Energy

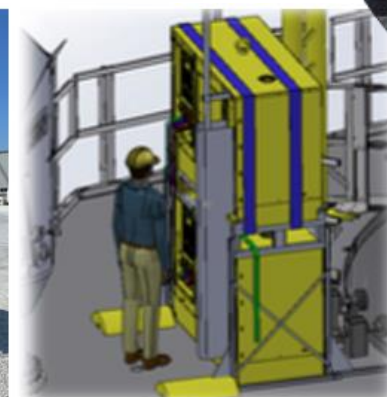
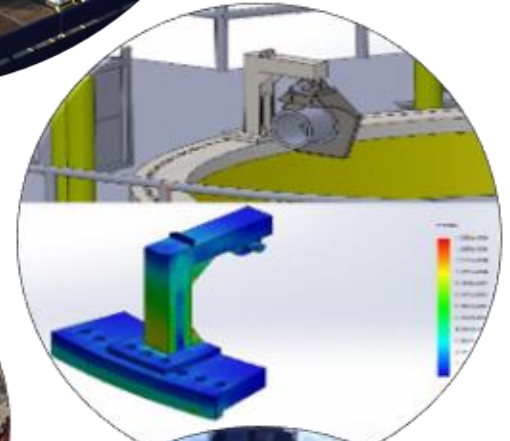
Based in UK with offices in Denmark & Taiwan

## We deliver:

- Manpower services as an agency and support both white and blue collar

## Turnkey Services & Project support

- Temp Power solutions
- Cable Pulling
- Major Component Repairs
- Construction & O&M services
- Paint Repairs



## Temporary Power Solutions

CPower have experience in delivering temporary power solutions to offshore wind marked since the first offshore wind farms was built the in Europe. We have developed several purpose build temp power solutions that deliver safe and consistent power during the installation and commissioning phase of the turbines or during power outages on the operational phase. The solutions can be delivered as Turnkey Solution or delivered in parts.



### Proven track record for Temporary Power projects on Offshore Windfarms...

- Gunfleet Sands
- London Array
- Walney 1 – 2 – 3
- Lincs
- Sharringham Shoal
- Gwynt y Mor
- Burbo Bank
- Horns Rev 3
- Nordsee Ost
- Borkum Riffgrund
- Aberdeen Bay
- Rampion 1 & 2
- Baltic 2
- Gode Wind
- Wikingen
- Borssele
- Formosa
- Moray East
- Triton Knoll
- Hollandse Kust Zuid
- Hollandse Kust Nord
- Moray West
- Gode Wind 3
- Borkum Riffgrund 3
- Sofia
- Thor
- EA3



**Experience from delivering Temp Power for 30 offshore wind farms**

### CPower Solution Overview

- ✓ Worldwide supply
- ✓ Bespoke turnkey solutions
- ✓ 30 to 220kVA Solutions
- ✓ Solution with, any parts under 1000kg
- ✓ Solution with, parallel coupling for redundancy
- ✓ Stacked solutions for space savings
- ✓ 1 x Lift solution
- ✓ Service, repair and refuelling setup
- ✓ Service and refuelling vessels
- ✓ Patented "Temp Deck" to avoid overload of structure

## CPower Temp Power Track Record



CPower has extensive experience in delivering offshore temporary power solutions for offshore windfarms since the first offshore wind farms were built in Europe. Our management and technicians have a long experience in building and delivering tailored solutions for our client's specific windfarm taking into account specific solutions that are most suitable for a safe, flexible and quality delivery.

We have designed and delivered several innovative temporary power solutions by manufacturing our own specific equipment and incorporating this into full turnkey solutions that include project management, logistics, manpower, equipment and temporary power units.

## 120kVA solution with all components under 1000Kg

In 2019 we started cooperating with Atlas Copco on new solutions with an aim to develop a TPS System that can be demobilised via the TP crane.

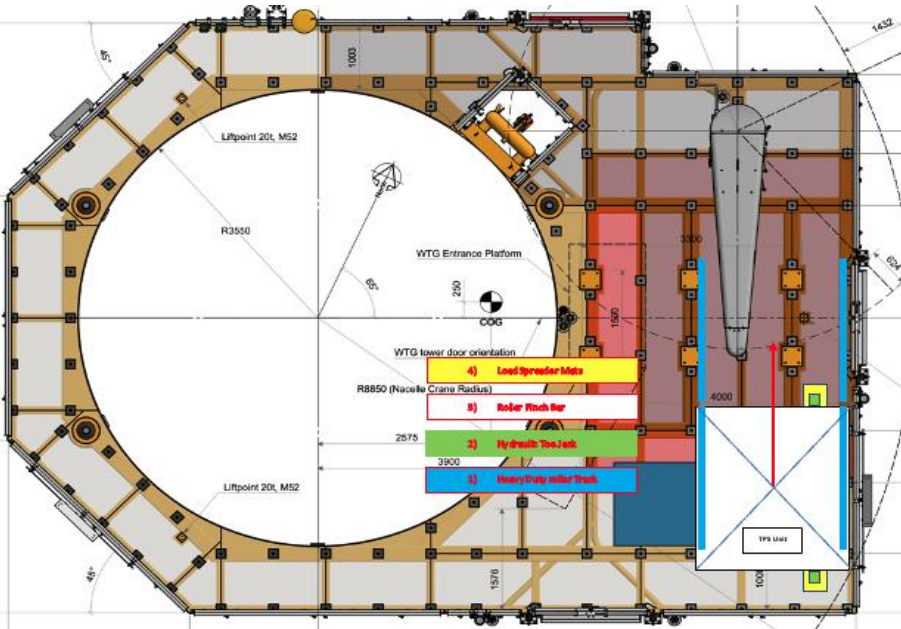
To do this we had to be innovative and develop a system with lightweight generators.

For this project we also developed and patented the TempDeck solution that make it possible to place heavy weights outside the Laydown Area.

### TPS120 Solution in DNV rack

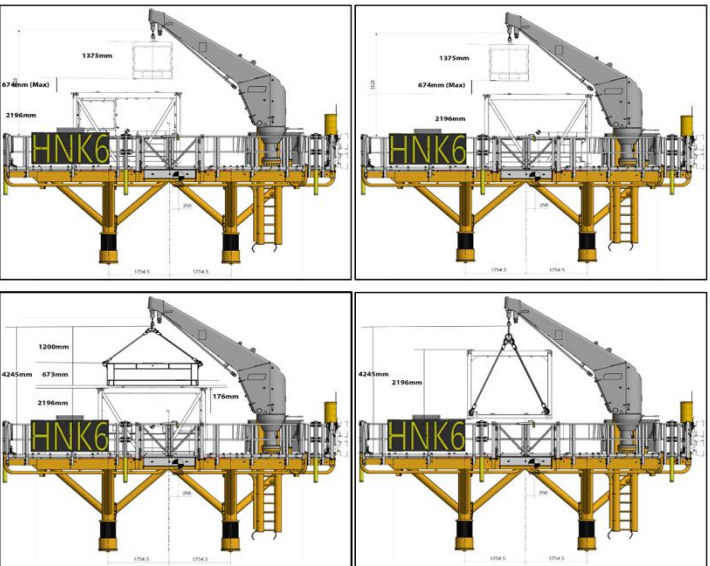


All Items under 1000Kg  
100% Back Up  
Service interval 900 hours VS 500 Hours

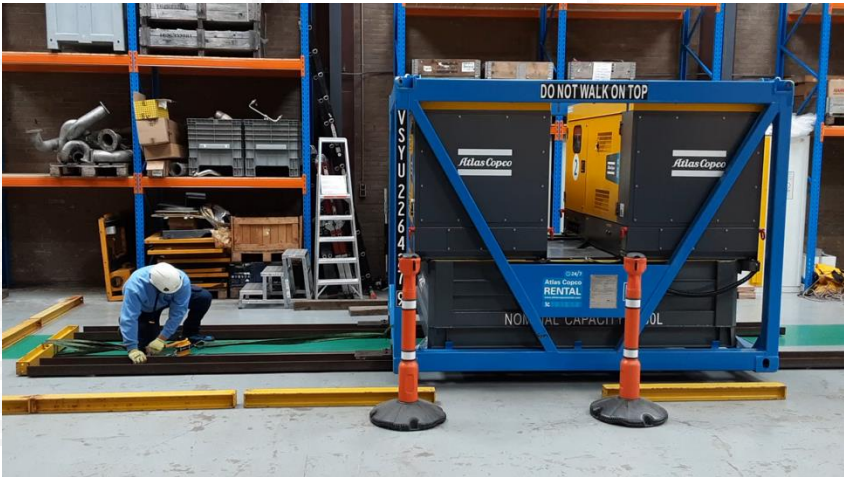


36 Units deployed during the project

Temp Deck  
Distribution of weight to main structure

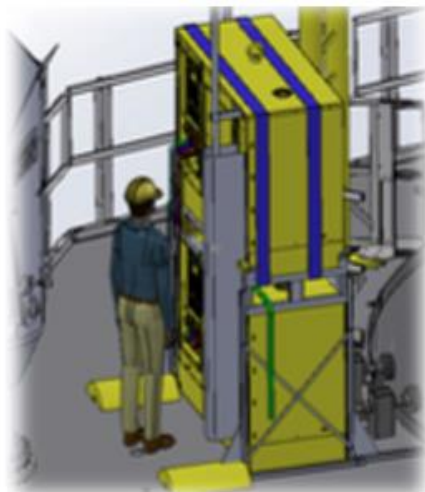


### Test of new designed jacking system and sliding rails

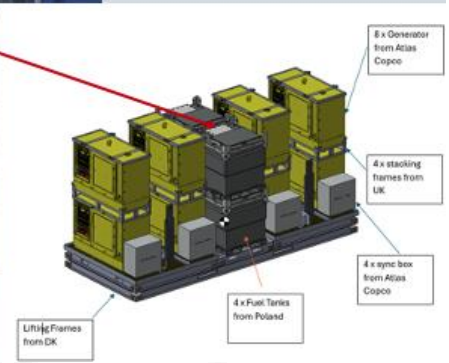


## 60 kVA Stacked solution

*This solution is designed for turbines up to 15MW turbines with an SST System (Self Sustainable Turbine)  
All units in this system is under 1000Kg so it can be demobilised via TP crane to CTV and the generators is stacked via a designed and tested stacking frame. It have an exhaust system that direct the exhaust fumes away from the turbine access door.*



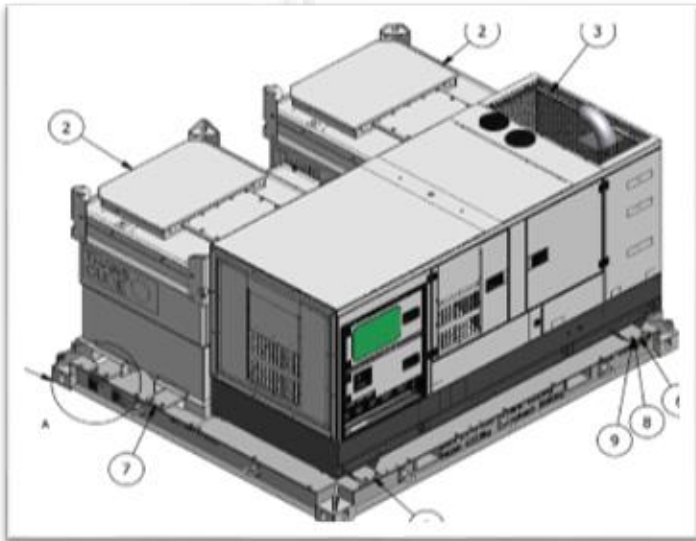
CPOWER Design  
Semco Production drawings  
& Production



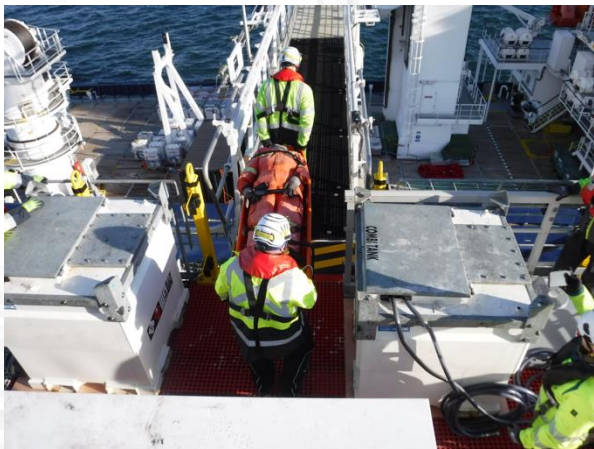
150kVA solution

*This solution is designed for turbines up to 15MW turbines without an SST System (Self Sustainable Turbine)  
This system have delivered power to the new Siemens 14MW turbines on a UK project with no capacity problems*

150kVA “Flat rack” Solution (1 x Lift solution)

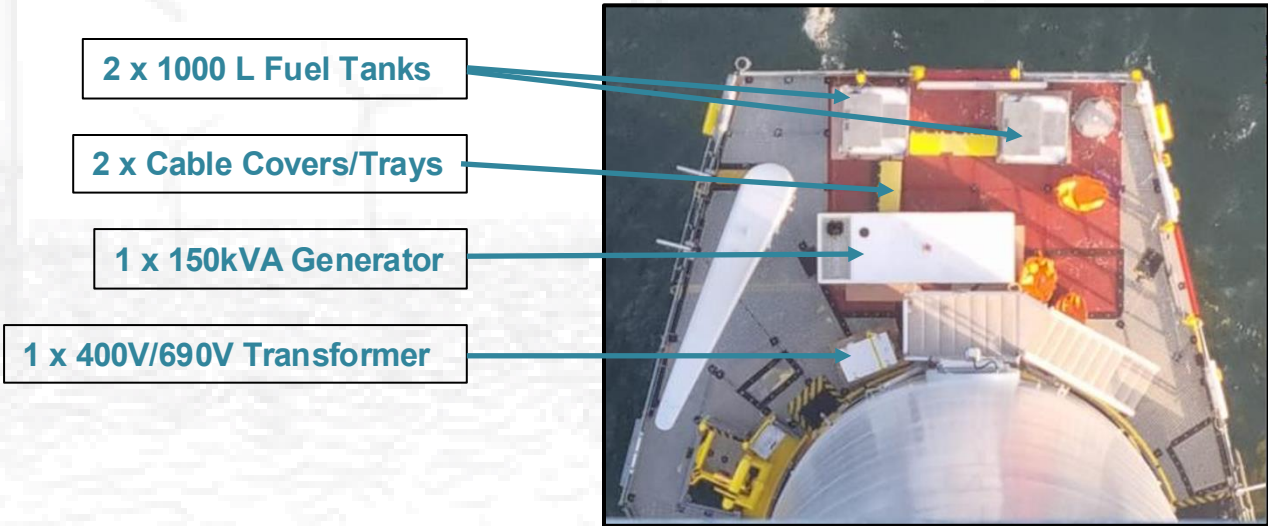


150kVA solution placed on foundation with small size Laydown area



Safety Drill use of stretcher to verify sufficient space around the Temp Power solution

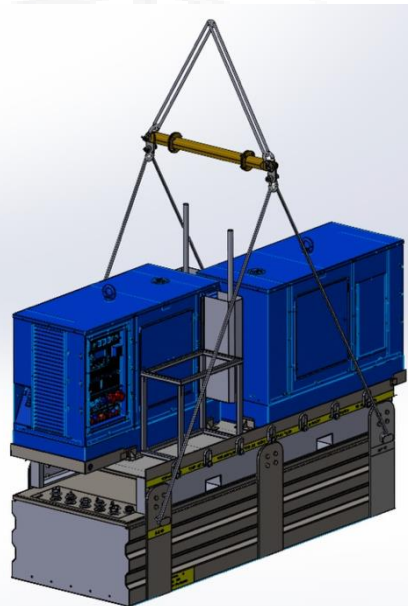
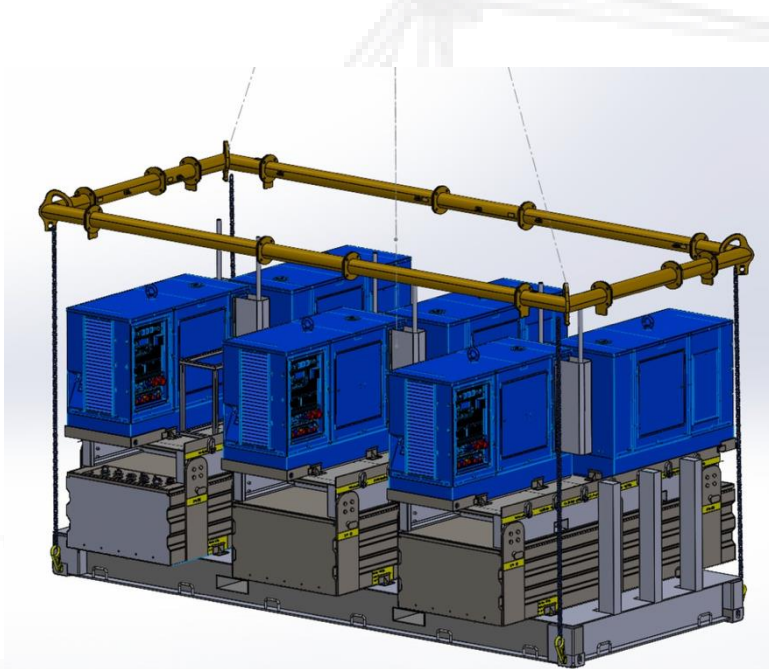
150kVA Single Component Solution (4 x Lift solution)



## Flexible Turnkey Solution

*CPower are constantly working on and developing new Temp Power solutions tailored to the specific offshore wind farms we are working on.*

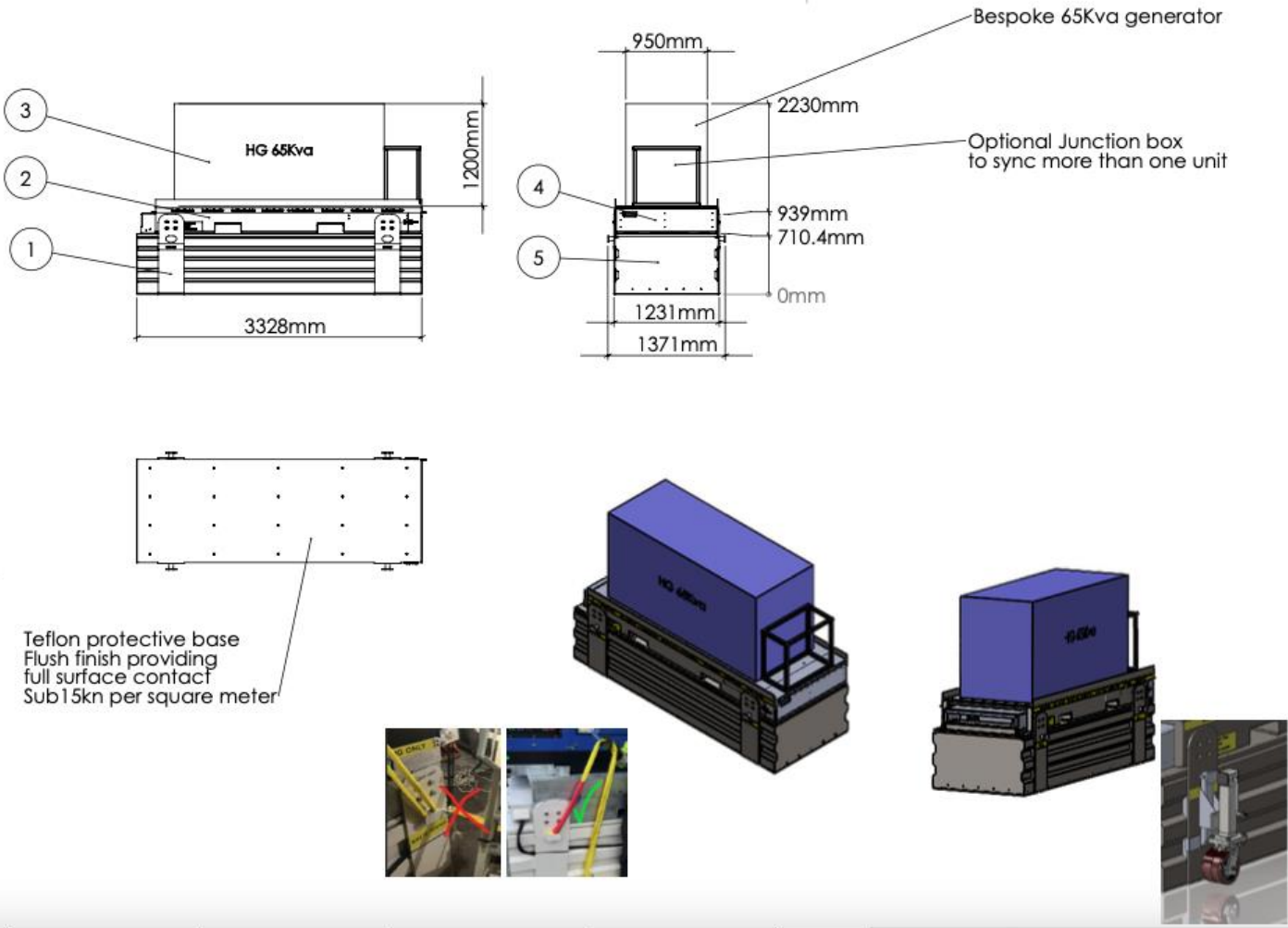
*We have developed a new Fuel tank (SLB2000) that make it possible to lift 4 x TPS Units to the installation vessel in 1 x lift and from IV to TP also in 1 x lift. The system comes with 2 x 33kVA generators that can run in parallel and deliver 60kVA. This system have 100% backup and can be remotely monitored via our satellite system and started or stopped remotely. The system can be demobilised via 1000kg TP crane. The system can be delivered with 30kVA generator – 60kVA generator – 100kVA Generator – 150- 200kVA Generator*



Lightweight Setup Solutions

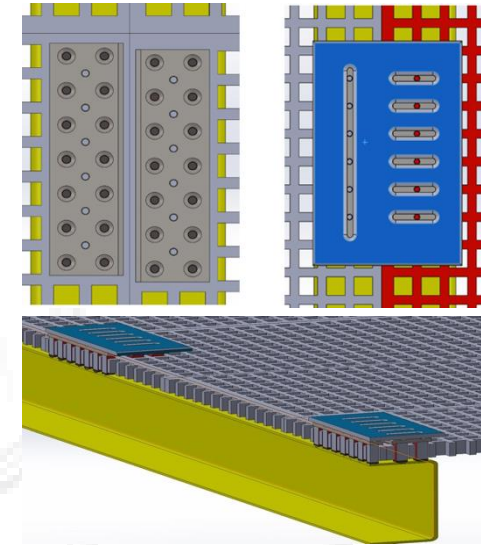
Generator: 60kVA with total weight with fluids 935kg  
Can be build in both 50Hz and 60Hz configuration.

Ensure all components are under 1000kg and can be lifted via TP crane if needed.  
Specific designed for offshore turbines by CPower for APAC and EU marked



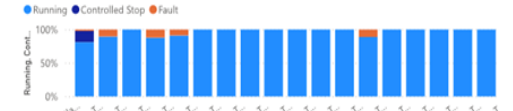
## TempDeck Solution

*TempDeck Pads protect against overload and crush factor of structure and grating from heavy loads like Temp Power Units placed on or outside the laydown area. The solution make it possible to place a Temp Power unit outside the Laydown Area. The system transfer the load direct to the underlying structure*



*Sliding Rails can be deployed to move TPS Systems from one side to the TP to be placed under the foundation crane for demob operations via TP crane.*



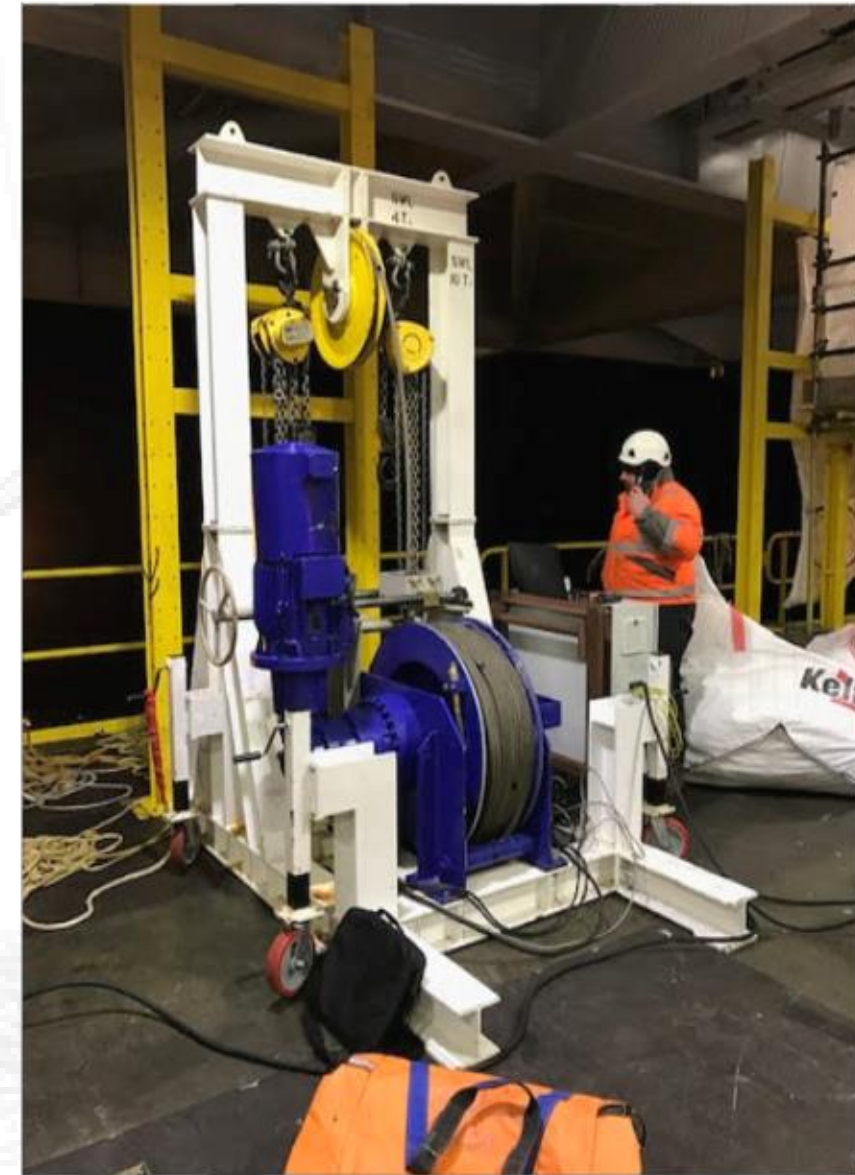
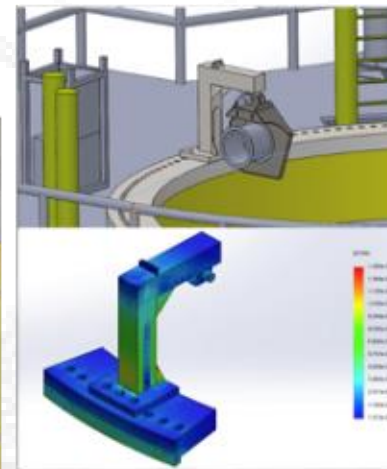


# Cable pulling turnkey solution

- Specialist cable pulling support
  - During the cable installation scope
  - During a cable repair scope
- CPower has the equipment.....



..... teams and expertise for array cable support



# CPower Agency - delivering From start to finish



CPower was born in the Offshore wind sector and while this remains its main focus it is now developing the consultancy to include other sectors in the energy sector.

| Energy Sectors                                                                                                                                  | Work Packages                                                                                                                                                              |                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>Offshore Wind</li><li>Onshore Wind</li><li>Tidal &amp; Wave</li><li>Solar</li><li>Oil &amp; Gas</li></ul> | <b>Contract Management</b><br>Contract Managers<br>Contract Assistants & Team<br>Category Managers<br>Procurement Managers<br>Procurement Team<br>Supply Change Management | <b>Engineering</b><br>Project Managers<br>Project Engineers<br>Structural Engineers<br>Mechanical Engineers<br>Electrical Engineers<br>Planning<br>Quality Control<br>Health & Safety<br>Surveyors | <b>Project Supply Personnel</b><br>Health & Safety<br>Quality<br>Project & Site Management<br>Project & Site Engineers<br>Commissioning Managers & Team<br>HV Engineers<br>SAP,s & AP's<br>HV & LV Electricians<br>Clients Reps (All main packages)<br>Installation Coordinators<br>Marine Coordinators<br>Riggers and Rope Access Techs<br>Test and Termination Techs<br>Turbine Techs etc. |



Thanks for your time...

Peter Jorgensen, CEO

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*Experience And Knowledge*

*...Are the basis of our performance and the foundation of our future!*

