



OPS Success Cases & Lessons learnt

Valencia (SPAIN), November 29th, 2023

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They are connected:

Who's next :




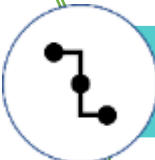



More to come....

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EOPSA' position



-  **FASTER IMPLEMENTATION**
-  **RECIPROCITY**
-  **INCENTIVES AND CLARITY**
-  **COOPERATION**
-  **STANDARDISATION & INNOVATION**



Success Cases executed by our members as a Pioneer

Application Case : Container on board (ship side) & shore side

Cavotec : First solution in US



Ports :

Port of Gothenburg



Application Case: Production of Energy (Wind) & OPS

Herrema (NL)



Application Case : LV solution (EPC) for OSV

Schneider Electric (Norway)



Application Case: HV Solution for Ferrys RoRo (on same port) ABB & Cavotec (France)



Application Case : HV Voltage Cruise CMS

Stemmann-Technik (Wabtec group),(Germany)



Refer to our & Data Base & List => on Request



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Lessons Learnt

General & specific

- a) *Location of XYZ hatch door location (potential range of connection points (CP) = >Stationary or Mobile solution*
- b) *Current / Forecast requirements in : Frequency , voltage and power = > major impact on Civil Works per quay = > impact on Electrical substation*
- c) *Clearance with Standard moorings lines , Shore tension system, local traffic*

- d) *Plugs & Sockets (IEC 80005) : Which version to comply with ?*
- e) *Wiring of the sockets & plugs)*
- f) *Short Current (ICC) = > Each vessel got a specific one = > Need an electrical bespoke software & Local & closed Human Machine Interface from the Connection Pont*

- g) *Synchronization & coordination of the interfaces during execution : **Electrical, Civil works**, safety, Automation*
- h) *Climate change (overflowing) = > elevation of the plugs from ground (Junction Boxes)*
- i) *Climate change (temperature elevation) = > Mandatory HVAC on Electrical Substation & cabinets*
- j) *Who & How to operate the solution ? Ship screw, port authority, Third party*
- k) *Think Total Cost of Ownership : Capex Decision without Opex consideration*



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Thank you

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LET'S GET CONNECTED

