



**REFERENCE LIST**  
**Shipbuilding & Offshore**

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Date	PLANT	SHIPYARD	ACTIVITIES
2010	<p><b>BP PSVM FPSO</b></p> <p>Control of ventilation and air-conditioning system on ship for deep water oil extraction in Angola</p> <p><b>Client: BP</b></p>	<p>Jurong shipyard JSL, Singapore</p>	<ul style="list-style-type: none"> <li>- Electrical documentation for 6 HVAC and 4 thyristor (heater) panels</li> <li>- Delivery of hardware and software development for 3 independent PLC systems (each with 160 DI/64 DO, 32 AI/8 AO, redundancy, NAMUR inputs, HART, Profibus, J-Bus, Modbus, TCP/IP)</li> <li>- Delivery of hardware and software development for 6 touch panels (15")</li> <li>- Start-up &amp; Commissioning in Singapore</li> </ul>
2010	<p><b>Platform supply vessel Kongsberg UT755LN</b></p> <p>Pump starter panels</p> <p><b>Client: Irving Shipyard</b></p>	<p>Irving Shipbuilding, Halifax Canada</p>	<ul style="list-style-type: none"> <li>- Electrical design</li> <li>- Delivery of pump starter panels (one speed and two speed drives)</li> </ul>
2012	<p><b>RAMADAN 6 offshore production complex</b></p> <p>HVAC rehabilitation project on an offshore production complex in Gulf of Suez Egypt</p> <p><b>Client: GUPCO / BP</b></p>	<p>ARGONAUT Cairo Egypt</p>	<ul style="list-style-type: none"> <li>- <i>Electrical documentation for 5 x HVAC panels and 9 x air handling unit UCP panels</i></li> <li>- <i>Fabrication of safe area control panels, Ex-e and Ex-d control and electrical panels</i></li> <li>- <i>Delivery of hardware and software development for 17 x PLC units (redundancy, HART, Profinet) and 5 pcs touch panels (15")</i></li> <li>- <i>Factory acceptance test in Canada</i></li> </ul>
2014	<p><b>HEBRON GBS</b></p> <p>Control of ventilation and air-conditioning systems (HVAC)</p> <p><b>Client: Exxon Mobil</b></p>	<p>Hyundai Heavy Industries Ulsan South Korea</p>	<ul style="list-style-type: none"> <li>- <i>Main and final design</i></li> <li>- <i>Fabrication of 4 x HVAC control panels</i></li> <li>- <i>Fabrication of 9 x humidifiers power &amp; control panels</i></li> <li>- <i>Delivery of hardware and software development for 4x Allen Bradley PLCs (650 DI/400 DO, 160 AI/40 AO, redundancy, Modbus, TCP/IP)</i></li> <li>- <i>Start-up &amp; commissioning in Canada</i></li> </ul>

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2015	<b>TEN DEVELOPMENT PROJECT</b>  Accommodation, 7P and E-house HVAC System  <b>Client: Tullow Oil</b>	Jurong shipyard JSL, Singapore  &  PT Wasco Batam, Inodnesia	<ul style="list-style-type: none"> <li>- <i>Electrical design</i></li> <li>- <i>Fabrication of 2 x HVAC control panels</i></li> <li>- <i>Fabrication of 3 x MCC (LOGSTRUP) panels Equipped with motor protection relays</i></li> <li>- <i>Fabrication of panels for electrical heaters</i></li> <li>- <i>Delivery of hardware and software development for 2 x PLCs (200 DI/100 DO, 32 AI/4 AO, redundancy, Modbus TCP/IP, EtherNet IP)</i></li> <li>- <i>Start-up &amp; commissioning in Singapore</i></li> </ul>
2015	<b>FPSO Cidade de Campos dos Goytacazes MV29</b>  Accommodation HVAC system  <b>Client: Petrobras</b>	COSCO Dalian Shipyard Dalian, China	<ul style="list-style-type: none"> <li>- <i>Electrical design</i></li> <li>- <i>Fabrication of HVAC MCC Panel (LOGSTRUP) with withdrawable buckets</i></li> <li>- <i>Fabrication of 2 x HVAC control panels in relay technology</i></li> <li>- <i>Fabrication of 5 x Heater distribution panels</i></li> <li>- <i>Fabrication of local control station</i></li> <li>- <i>Factory and functional testing</i></li> <li>- <i>Start-up &amp; Commissioning in China</i></li> </ul>
2015	<b>ODOPTU land rig Sakhalin</b>  HVAC Control Panels for DSM, DM and PBM modules  <b>Client: Parker Drilling / Exxon</b>	Keppel AmFELS, Singapore	<ul style="list-style-type: none"> <li>- <i>Electrical design</i></li> <li>- <i>Fabrication of 2 x power and control cabinets for safe area and 1 x cabinet for hazardous area (Exp protection)</i></li> <li>- <i>Cabinets are equipped with sockets for easy reconnection of cables when cabinets are moved to another location</i></li> <li>- <i>PLC and HMI programming</i></li> <li>- <i>Factory and functional testing</i></li> </ul>

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2016	<b>Offshore fisheries science vessels OFSV190 1 &amp; 2 &amp; 3</b>  HVAC Distribution & control panels  <i>Client: Canadian Coast Guard</i>	Seaspan shipyards Vancouver Canada	<ul style="list-style-type: none"> <li>- <i>Electrical design of HVAC control system</i></li> <li>- <i>Fabrication of power and control cabinets SB-02 and SB-02 2nd</i></li> <li>- <i>Compact Logix PLC system with Panel View Plus 1500 HMI</i></li> <li>- <i>400 DI, 112 DO, 48 AI, 48 AO for SB-02</i></li> <li>- <i>240 DI, 112 DO, 32 AI, 28 AO for SB-02 2nd</i></li> <li>- <i>RS485 Modbus communication</i></li> <li>- <i>PLC and HMI programming</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Start-up &amp; Commissioning in Canada</i></li> </ul>
2016	<b>TBSC Ferries Hull 723 &amp; 724</b>  HVAC Distribution & control panels for 2 vessels  <i>Client: Société des traversiers du Québec (STQ)</i>	Chantier DAVIE Lévis, Québec Canada	<ul style="list-style-type: none"> <li>- <i>Electrical design of HVAC control system for two ferries</i></li> <li>- <i>Fabrication of 6 independent HVAC power and control cabinets for each vessel</i></li> <li>- <i>Fabrication of central monitoring cabinet and two speed starter panels</i></li> <li>- <i>Programming of 12 independent PLC systems</i></li> <li>- <i>Visualization on Siemens operator panels (14 pcs.) in both English and French language</i></li> <li>- <i>Redundant Profinet interface</i></li> <li>- <i>Ethernet IP Modbus interface</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Start-up &amp; Commissioning in Canada</i></li> </ul>
2016	<b>MS Asterix (Project Resolve)</b>  24VDC System for auxiliary naval replenishment ship  <i>Client: BASETTEK</i>	Chantier DAVIE Lévis, Québec Canada	<ul style="list-style-type: none"> <li>- <i>Electrical design</i></li> <li>- <i>Fabrication of power and control cabinets for autonomous stations</i></li> <li>- <i>Delivery of batteries, battery chargers</i></li> <li>- <i>Factory and functional testing</i></li> </ul>

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2017	<p><b>Offshore fisheries science vessels OFSV 190-2 &amp; 3</b></p> <p>HVAC Distribution &amp; control panels for 2 vessels</p> <p><i>Client: Canadian Coast Guard</i></p>	<p>Seaspan shipyards Vancouver Canada</p>	<ul style="list-style-type: none"> <li>- <i>Electrical design of HVAC control system</i></li> <li>- <i>Fabrication of power and control cabinets SB-02 and SB-02 2nd</i></li> <li>- <i>Compact Logix PLC system with Panel View Plus 1500 HMI</i></li> <li>- <i>400 DI, 112 DO, 48 AI, 48 AO for SB-02</i></li> <li>- <i>240 DI, 112 DO, 32 AI, 28 AO for SB-02 2nd</i></li> <li>- <i>RS485 Modbus communication</i></li> <li>- <i>PLC and HMI programming</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Start-up &amp; Commissioning in Canada</i></li> </ul>
2017	<p><b>STX-J34 Celebrity Edge Cruise ship</b></p> <p>HVAC system control panels</p> <p><i>Client: Celebrity Cruises</i></p>	<p>Chantiers de l'Atlantique (CDA) Saint-Nazaire, France</p>	<ul style="list-style-type: none"> <li>- <i>Electrical design and Production of 69 x RPU starter panels for HVAC system</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Startup &amp; Commissioning in France</i></li> </ul>
2018	<p><b>MVW124 – CRYSTAL ENDEAVOR</b></p> <p>HVAC system for mega yacht</p> <p><i>Client: Crystal Cruises</i></p>	<p>MV WERFTEN Stralsund Germany</p>	<ul style="list-style-type: none"> <li>- <i>Electrical design and Production of 16 x RPU control panels, 2 x control panels for machinery rooms, 31 x FCU starters, 4 x control panels for pumps and 1 x control panel for watertight damper</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Start-up &amp; Commissioning in Germany</i></li> </ul>

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2018	<b>STX-K34 Celebrity Apex Cruise ship HVAC system</b>  HVAC system control panels  <i>Client: Celebrity Cruises</i>	Chantiers de l'Atlantique (CDA) Saint-Nazaire, France	<ul style="list-style-type: none"> <li>- <i>Electrical design and Production of 69 x RPU starter panels for HVAC system, 173 x FCU starters</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Startup &amp; Commissioning in France</i></li> </ul>
2018	<b>White Rose extension project</b>  Constant volume unit heaters  <i>Client: Husky Energy</i>	Kiewit offshore fabrication facilities Ingleside TX USA	<ul style="list-style-type: none"> <li>- <i>Electrical design and Production of 79 x CVU heater panels for Living quarters.</i></li> <li>- <i>Installation on CVUs in Canada</i></li> <li>- <i>Factory acceptance testing in Canada</i></li> </ul>
2019	<b>MAD DOG Phase 2 Project BP ARGOS oil platform</b>  HVAC system control panels for Topsides, Hull and LQ  <i>Client: BP</i>	Samsung Heavy Industries Geoje South Korea  &  Kiewit offshore fabrication facilities Ingleside TX USA	<ul style="list-style-type: none"> <li>- <i>Electrical design and Production of 32 x HVAC control panels, 78 x Heater starter panels , 17 x Interposing Relay panels, 106 x disconnect switches for safe area, 260 x disconnect switches for Ex Zone, 70 x JOR control stations for safe area, 114x JOR control stations for Ex Zone, 756 x local control station, 40 x junction boxes for axial fan motors, 17 x UV light control panels</i></li> <li>- <i>PLC and HMI programming</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Startup &amp; Commissioning in Korea and USA</i></li> </ul>

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2019	<b>Eni Coral South Floating LNG terminal</b>  HVAC control system for Turret Instrument room  <i>Client: ENI / SOFEC</i>	Dyna-Mac Singapore  & Samsung Heavy Industries Geoje South Korea	<ul style="list-style-type: none"> <li>- <i>Electrical design and Production of MCC HVAC Panel, HVAC control panel</i></li> <li>- <i>Electrical design and Production of 2 x VENTILATION Ex d PANELS</i></li> <li>- <i>PLC and HMI programming</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Site acceptance test in Singapore</i></li> </ul>
2020	<b>CDA-L34 Celebrity Beyond Cruise ship</b>  HVAC system  <i>Client: Celebrity Cruises</i>	Chantiers de l'Atlantique (CDA) Saint-Nazaire, France	<ul style="list-style-type: none"> <li>- <i>Electrical design and Production of 74 x RPU starter panels for HVAC system, 180 x FCU starters</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>Startup &amp; Commissioning in France</i></li> </ul>
2020	<b>GOLDEN PASS LNG (LER)</b>  HVAC for LER substations  <i>Client: QatarEnergy</i>	Powell Fabrication yard Houston USA  & Golden Pass LNG site, Sabine Pass USA	<ul style="list-style-type: none"> <li>- <i>Electrical design and Production of 24 x HVAC Distribution Panels and 24 x HVAC control panels</i></li> <li>- <i>Factory acceptance testing</i></li> <li>- <i>PLC and HMI programming</i></li> <li>- <i>Startup &amp; Commissioning in USA (Houston and Sabine Pass)</i></li> </ul>
2020	<b>PETROBRAS FPSO ALMIRANTE BARROSSO MV32</b>  E-HOUSE HVAC system  <i>Client: ABB / Petrobras</i>	DSIC Marine Yard Dalian China	<ul style="list-style-type: none"> <li>- <i>Electrical design of MCC HVAC Panel, HVAC control panel</i></li> <li>- <i>Production of HVAC MCC Panel (LOGSTRUP), HVAC control panel</i></li> <li>- <i>PLC and HMI programming</i></li> <li>- <i>Factory acceptance testing</i></li> </ul>



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2020	<b>PETROBRAS FPSO ANITA GARIBALDI MV33</b>  E-HOUSE HVAC system  <i>Client: ABB / Petrobras</i>	DSIC Marine Yard Dalian China	<ul style="list-style-type: none"> <li>- Electrical design of MCC HVAC Panel, HVAC control panel</li> <li>- Production of HVAC MCC Panel (LOGSTRUP), HVAC control panel</li> <li>- PLC and HMI programming</li> <li>- Factory acceptance testing</li> </ul>
2021	<b>Bacalhau FPSO LQ HVAC SYSTEM</b>  <i>Client: Equinor</i>	BOMESC Offshore Tianjin China  & Keppel Shipyard Singapore	<ul style="list-style-type: none"> <li>- Electrical design of HVAC MCC Panel HVAC control panel, Heater distribution panels, Fire damper panels</li> <li>- Production of HVAC MCC Panel (LOGSTRUP), HVAC control panel, Heater distribution panels, Fire damper panels</li> <li>- PLC and HMI programming</li> <li>- Factory acceptance testing</li> </ul>
2021	<b>Bacalhau FPSO Module 11P HVAC system</b>  <i>Client: Equinor</i>	BOMESC Offshore Tianjin China & Keppel Shipyard Singapore	<ul style="list-style-type: none"> <li>- Electrical design of HVAC control and starter panel</li> <li>- Production of HVAC control and starter panel</li> <li>- PLC and HMI programming</li> <li>- Factory acceptance testing</li> </ul>
2021	<b>Sangomar Project E-House HVAC system</b>  <i>Client: ABB / Woodside Energy</i>	COSCO shipyard Dalian China	<ul style="list-style-type: none"> <li>- Electrical design and Production of HVAC control panel</li> <li>- Electrical design and Production of 19 x Fan Starter panels</li> <li>- PLC and HMI programming</li> <li>- Factory acceptance testing</li> </ul>
2022	<b>CDA – M34 Celebrity Ascent</b>  HVAC system <i>Client: Celebrity Cruises</i>	Chantiers de l'Atlantique (CDA) Saint-Nazaire, France	<ul style="list-style-type: none"> <li>- Electrical design of 74 x RPU starter panels for HVAC system, 180 x FCU starters</li> <li>- Production of 74 x RPU starter panels for HVAC system, 180 x FCU starters</li> <li>- Factory acceptance testing</li> </ul>



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2022	<b>GOLDEN PASS LNG (CER)</b>  HVAC for CER buildings  <i>Client: QatarEnergy</i>	Emerson Integration Center St. Louis USA	<ul style="list-style-type: none"> <li>- Electrical design of 24 Fan Starter panels, 8 HVAC control panels and 8 EX Local control stations</li> <li>- Production of 24 Fan Starter panels, 8 HVAC control panels and 8 EX Local control stations</li> <li>- <i>PLC and HMI programming</i></li> <li>- Factory acceptance testing</li> <li>- Start-up &amp; Commissioning in Emerson i-Center St. Louis USA</li> </ul>
2022	<b>Equinor Bacalhau FPSO</b> E-HOUSE HVAC SYSTEM  <i>Client: Equinor</i>	BOMESC Offshore Tianjin China & Keppel Shipyard Singapore	<ul style="list-style-type: none"> <li>- Electrical design of HVAC control panel</li> <li>- Production of HVAC control panel</li> <li>- <i>PLC and HMI programming</i></li> <li>- Factory acceptance testing</li> </ul>
2022	<b>HEBRON GBS DCR HVAC</b>  Drilling room ventilation and air-conditioning system  <i>Client: Exxon Mobil</i>	Bronswerk Marine Halifax Canada	<ul style="list-style-type: none"> <li>- Electrical design of outdoor EX power panel and HVAC control panel</li> <li>- Fabrication of control panel</li> <li>- Software transition from Siemens S7-300 to Allen Bradley Compact Logix</li> <li>- Factory acceptance testing</li> </ul>
2023	<b>CDA – J35 Ilma</b>  HVAC system for ultra-luxury expedition superyacht  <i>Client: Ritz Carlton Yacht Collection</i>	Chantiers de l'Atlantique (CDA) Saint-Nazaire, France	<ul style="list-style-type: none"> <li>- Electrical design of 36 x RPU starter panels for HVAC system, 54 x FCU starters, 4 x distribution boards MRPU</li> <li>- Production of 36 x RPU starter panels for HVAC system, 54 x FCU starters, 4 x distribution boards MRPU</li> <li>- Factory acceptance testing</li> </ul>

2023	<b>UARU FPSO</b> LQ HVAC SYSTEM  <i>Client: Exxon Mobil</i>	BOMESC Offshore Tianjin China  & Keppel Shipyard Singapore	<ul style="list-style-type: none"> <li>- Electrical design of HVAC MCC Panel HVAC control panel, Heater distribution panels, Fire damper panels</li> <li>- Production of HVAC MCC Panel (CUBIC), HVAC control panel, Heater distribution panels, Fire damper panels</li> <li>- PLC and HMI programming</li> </ul>
2024	<b>CDA – K35</b> <b>Luminara</b>  HVAC system for ultra-luxury expedition superyacht  <i>Client: Ritz Carlton Yacht Collection</i>	Chantiers de l'Atlantique (CDA) Saint-Nazaire, France	<ul style="list-style-type: none"> <li>- Electrical design of 36 x RPU starter panels for HVAC system, 54 x FCU starters, 4 x distribution boards MRPU</li> <li>- Production of 36 x RPU starter panels for HVAC system, 54 x FCU starters, 4 x distribution boards MRPU</li> <li>- Factory acceptance testing</li> </ul>
2024	<b>MBV707</b> <b>Tank Ship</b>  HVAC system for Oil tanker  <i>Client: German Navy</i>	NEPTUN WERFT  Rostock, Germany	<ul style="list-style-type: none"> <li>- Electrical design of 17 starter panels for HVAC system, 28 x FCU starters, 3 x distribution boards</li> <li>- Production of 17 starter panels for HVAC system, 28 x FCU starters, 3 x distribution boards</li> <li>- Factory acceptance testing</li> </ul>
2024	<b>CDA – N34</b> <b>Celebrity Xcel</b>  HVAC system  <i>Client: Celebrity Cruises</i>	Chantiers de l'Atlantique (CDA) Saint-Nazaire, France	<ul style="list-style-type: none"> <li>- Electrical design of 74 x RPU starter panels for HVAC system, 180 x FCU starters</li> <li>- Production of 74 x RPU starter panels for HVAC system, 180 x FCU starters</li> </ul>
2024	<b>FPSO RAIA PROJECT</b>  LQ HVAC SYSTEM	BOMESC Offshore Tianjin China & Keppel	<ul style="list-style-type: none"> <li>- Electrical design of HVAC control panel, Heater distribution panels, Fire damper panels</li> <li>- Production of HVAC control panel, Heater distribution panels, Fire damper panels</li> </ul>

	<i>Client: Equinor</i>	Shipyard Singapore	<ul style="list-style-type: none"> <li>- PLC and HMI programming</li> <li>- Factory acceptance testing</li> </ul>
2024	<b>FPSO RAIA PROJECT</b>  MV HVAC SYSTEM  <i>Client: Equinor</i>	BOMESC Offshore Tianjin China & Keppel Shipyard Singapore	<ul style="list-style-type: none"> <li>- Electrical design of Fire damper panels</li> <li>- Production of Fire damper panels</li> <li>- Factory acceptance testing</li> </ul>
2024	<b>FPSO RAIA PROJECT</b>  LAB and Workshop HVAC SYSTEM  <i>Client: Equinor</i>	BOMESC Offshore Tianjin China & Keppel Shipyard Singapore	<ul style="list-style-type: none"> <li>- Electrical design of HVAC power and control panel</li> <li>- Production of HVAC power and control panel</li> <li>- PLC and HMI programming</li> <li>- Factory acceptance testing</li> </ul>