



Benefits of Polyethylene Buoys

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Benefits of Polyethylene Buoys

	POLYETHYLENE	STEEL
SIZE AND BUOYANCY	They are smaller than the steel ones with the same net buoyancy, due to the lower specific weight of the material	They have lower net buoyancy than polyethylene ones with the same size, due to the higher specific weight of the material
FILLING	<u>Unsinkable</u> (also in case of crash) due to the closed-cell polyurethane foam filling	<u>Sinkable</u> (they must be empty to allow internal inspection)
ASSEMBLY	Plastic floats can be modular and easily assembled on the central steel structure	Steel buoys are not modular

Benefits of Polyethylene Buoys

	POLYETHYLENE	STEEL
COLOUR	Manufactured with colored polyethylene in the mass and stabilized against UV rays	Paint on steel floats has a limited lifetime
CATHODIC PROTECTION	Plastic is not subject to corrosion	Subject to corrosion and need to be protected with zinc anodes

Benefits of Polyethylene Buoys

	POLYETHYLENE	STEEL
SHIPPING & TRANSPORTATION	<p>They can be shipped disassembled in standard size containers saving transportation costs (any size up to 6 m of diameter)</p> <p>No need for heavy lifting facilities</p>	<p>Steel buoys need special transportation and they cannot be containerized; in that case transportation is much more expensive than a standard shipment</p> <p>Heavy lifting facilities</p>
ENVIRONMENTAL IMPACT	<p>Reduced weight of PE buoys implies less servicing vessels and fuel consumption</p>	<p>Heavier weight and more servicing vessels imply more fuel consumption</p>

Benefits of Polyethylene Buoys

	POLYETHYLENE	STEEL
REPARATION	In case of damage of some floats, the buoy still works and it is possible to replace only the broken floats	In case of crash, buoys could sink and must be recovered onshore to be repaired
REPARATION KIT	Small damages can be repaired at sea with a portable reparation kit	For any reparation, buoys have to be recovered onshore
MAINTENANCE OF FLOATS	Minimal maintenance for the lifetime (not less than 20 years)	Need very frequent and expensive maintenance (sandblasting, painting, welding)



Some of our latest projects:
Support and mooring
polyethylene buoys

Project in Norway



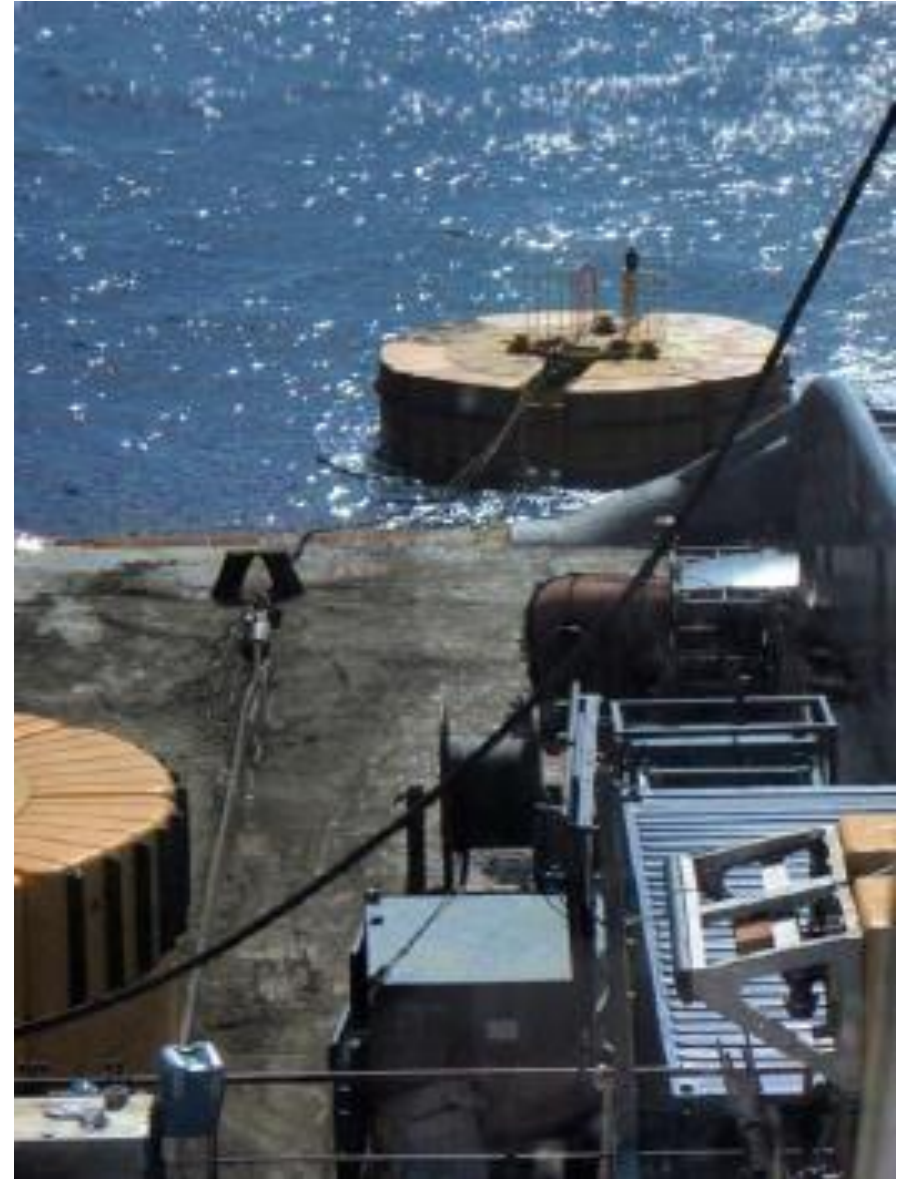
- Year: 1991
- Quantity: 1
- Depth: 60 m
- Diameter: 4,3 m
- Height: 10 m
- NB: 72.000 kg

Project in Malaysia



- Year: 2005
- Quantity: 2
- SWL: 75 t
- Diameter: 5,8 m
- Height: 2 m
- NB: 40.000 kg

Project in Malaysia



Project in Venezuela



- Year: 2008
- Quantity: 1
- SWL: 75 t
- Diameter: 4,3 m
- Height: 2,2 m
- NB: 24.500 kg

Project in Venezuela



Project in Italy



- Year: 2008
- Quantity: 1
- SWL: 250 t
- Diameter: 5,8 m
- Height: 3 m
- NB: 58.000 kg

Project in Italy



Project in Cameroon



- Year: 2008
- Quantity: 8
- SWL: 90 t
- Diameter: 4,3 m
- Height: 2,2 m
- NB: 24.000 kg

Project in Cameroon



Project in Albania



- Year: 2008
- Quantity: 5
- SWL: 50 t
- Diameter: 4,3 m
- Height: 1,1 m
- NB: 12.000 kg

Project in Albania



Project in Montenegro



- Year: 2009
- Quantity: 13 + 4
- SWL: 55 t
- Diameter: 2,5 m – 3 m
- Height: 1 m
- NB: 3.350 kg – 5.200 kg

Project in Montenegro



Project in Italy



- Year: 2009
- Quantity: 3
- SWL: 300 t
- Diameter: 5,8 m
- Height: 2,2 m
- NB: 35.500 kg

Project in Italy



Project in Italy



- Year: 2010
- Quantity: 1
- SWL: 50 t
- Diameter: 4,3 m
- Height: 1,1 m
- NB: 12.000 kg

Project in Italy



Project in Tenerife



- Year: 2010
- Quantity: 1
- SWL: 150 t
- Diameter: 5 m
- Height: 2,2 m
- NB: 36.000 kg

Project in Tenerife



Project in Venezuela



- Year: 2010
- Quantity: 3
- SWL: 75 t
- Diameter: 4,3 m
- Height: 2,2 m
- NB: 17.500 kg

Project in Venezuela

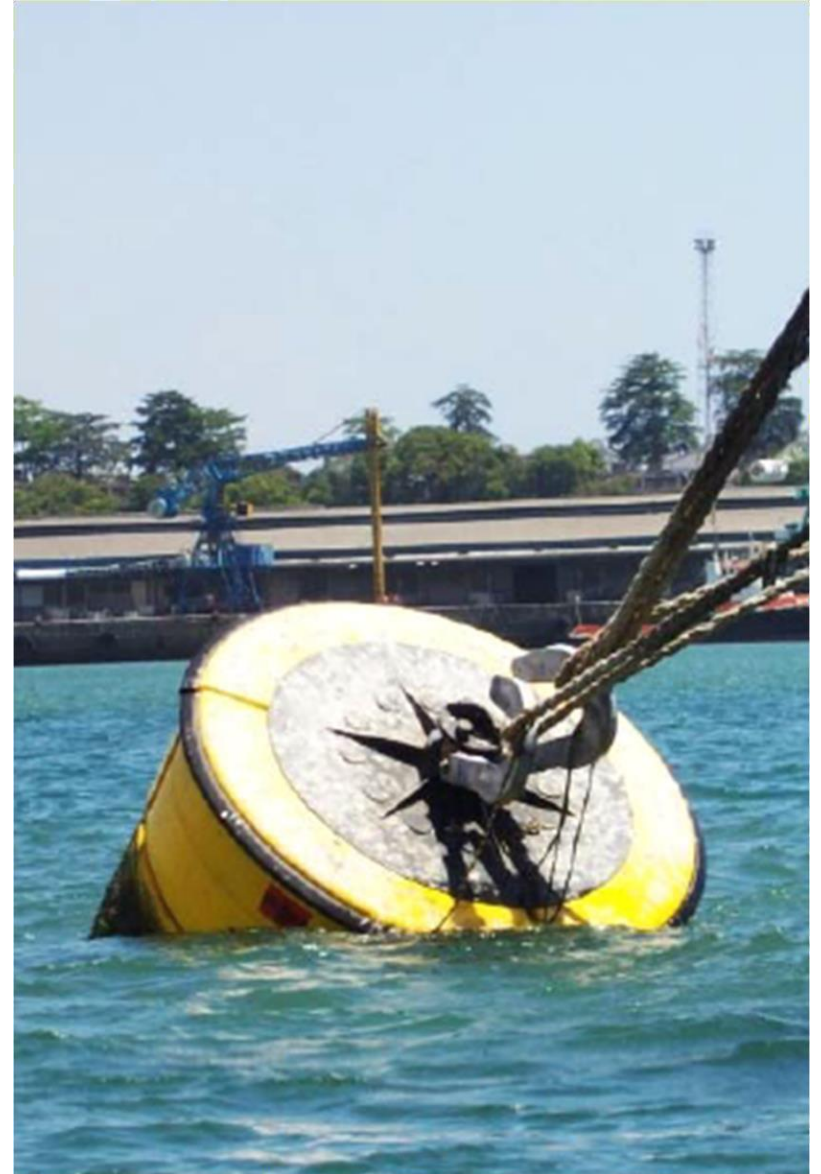


Project in Kenya



- Year: 2010
- Quantity: 10
- SWL: 75 t
- Diameter: 3 m
- Height: 1,8 m
- NB: 7.300 kg

Project in Kenya



Project in Malaysia



- Year: 2012
- Quantity: 1
- SWL: 75 t
- Diameter: 5,8 m
- Height: 2,5 m
- NB: 40.000 kg

Project in Malaysia



Project in Malaysia



- Year: 2014
- Quantity: 1
- SWL: 75 t
- Diameter: 5,8 m
- Height: 2,5 m
- NB: 39.600 kg

Project in Malaysia



Project in Java, Indonesia



- Year: 2014
- Quantity: 2
- SWL: 125 t
- Diameter: 4,3 m
- Height: 2,2 m
- NB: 25.800 kg

Project in Java, Indonesia



Project at Adriatic Offshore Area



- Year: 2014
- Quantity: 2
- SWL: 75 t
- Diameter: 3 m
- Height: 1,8 m
- NB: 8.200 kg

Project at Adriatic Offshore Area

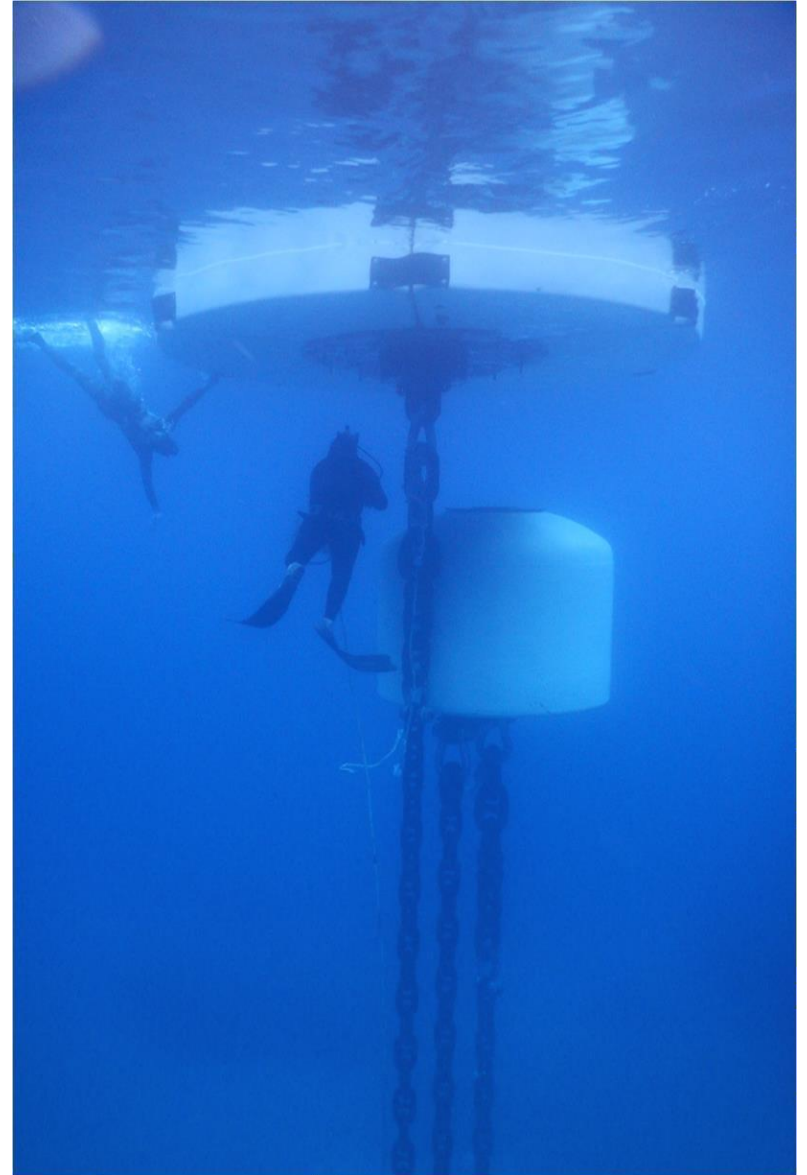


Project in Italy



- Year: 2015
- Quantity: 1
- SWL: 85 t
- Diameter: 4,3 m
- Height: 1,1 m
- NB: 11.400 kg

Project in Italy



Project in Angola



- Year: 2015
- Quantity: 8
- SWL: 125 t
- Diameter: 5,8 m
- Height: 2 m
- NB: 38.000 kg

Project in Angola

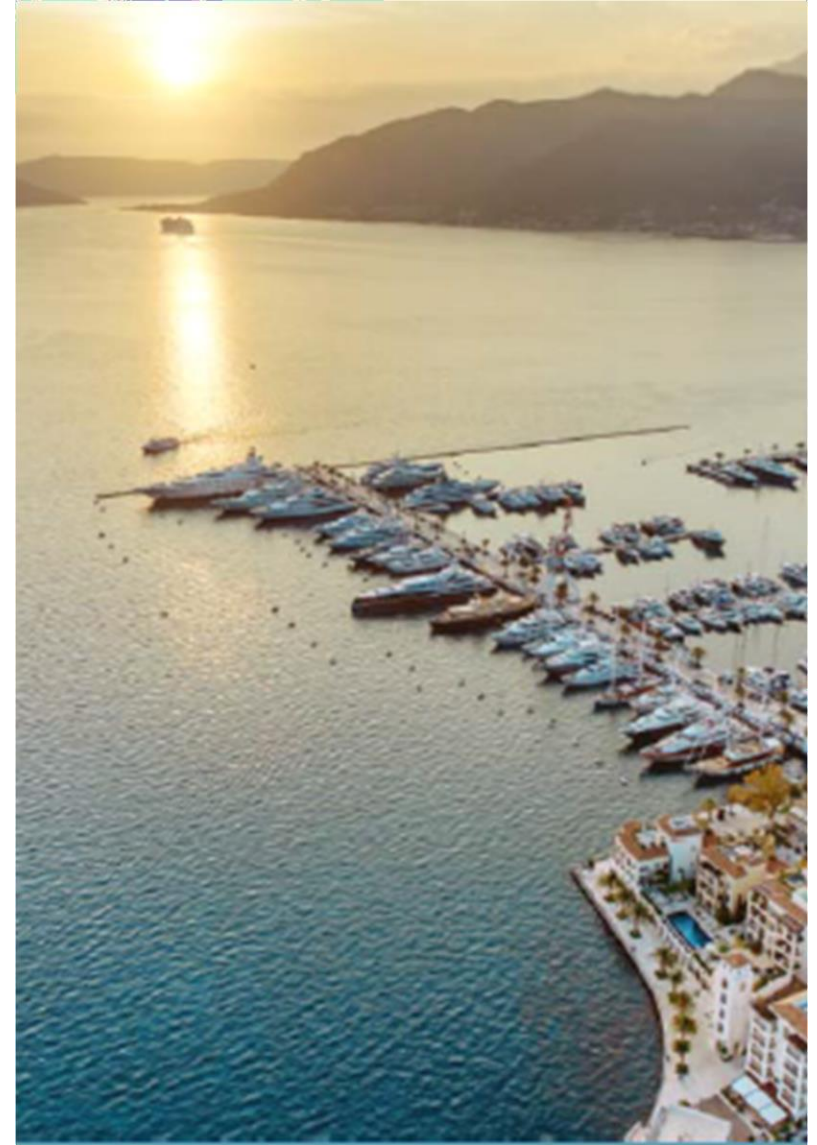


Project in Montenegro



- Year: 2015
- Quantity: 47
- SWL: Different
- Diameter: Different
- Height: Different
- NB: Different

Project in Montenegro



Project in Persian Gulf



- Year: 2016
- Quantity: 2
- SWL: 85 t
- Diameter: 4,5 m
- Height: 1,1
- NB: 11.400 kg

Project in Persian Gulf



Project in Egypt



- Year: 2017
- Quantity: 6
- SWL: 180 t
- Diameter: 5 m
- Height: 2,2 m
- NB: 28.000 kg

Project in Egypt



Project in Angola



- Year: 2017
- Quantity: 2
- Water Depth: 100 m
- Diameter: 4,3 m
- Height: 5,23 m
- NB: 33.500 kg

Project in Angola



Project in Panama



- Place: Year: 2018
- Quantity: 9
- SWL: 275 t
- Diameter: 5,8 m
- Height: 2 m
- NB: 37.000 kg

Project in Panama



Project in Jamaica



- Place: Year: 2018
- Quantity: 1
- SWL: 105 t
- Diameter: 5 m
- Height: 3,3 m
- NB: 49.000 kg

Project in Jamaica

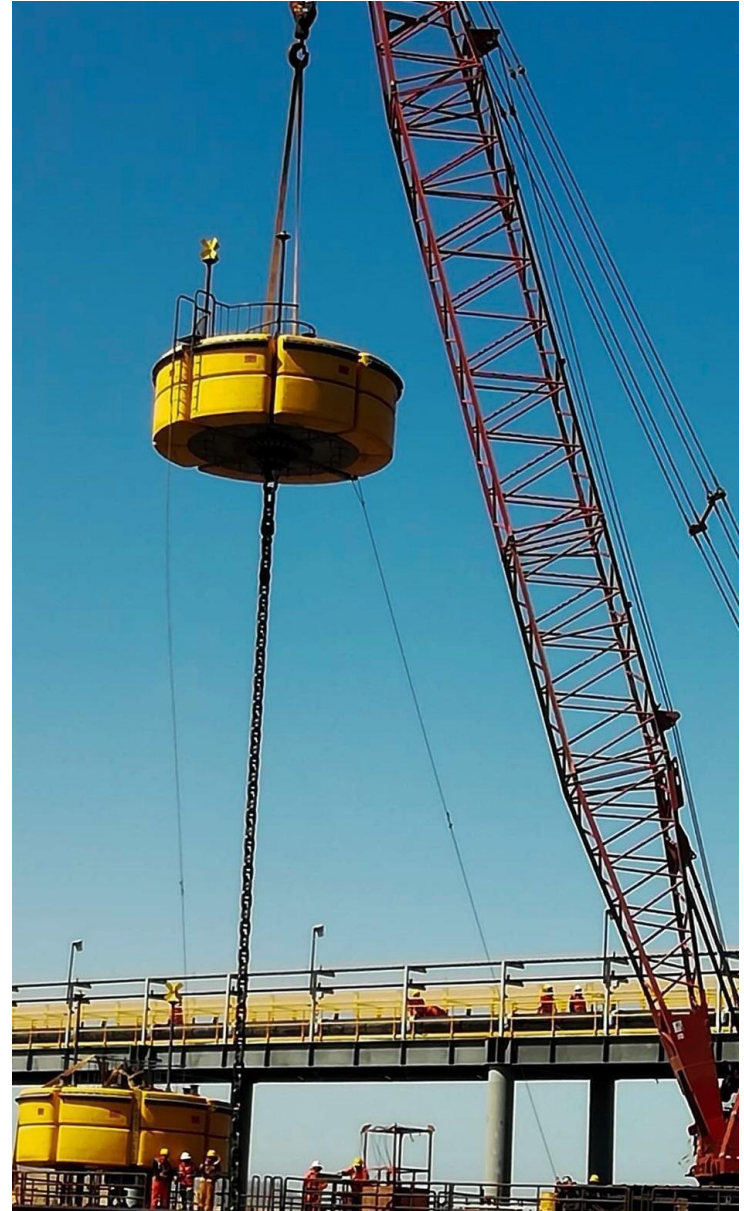
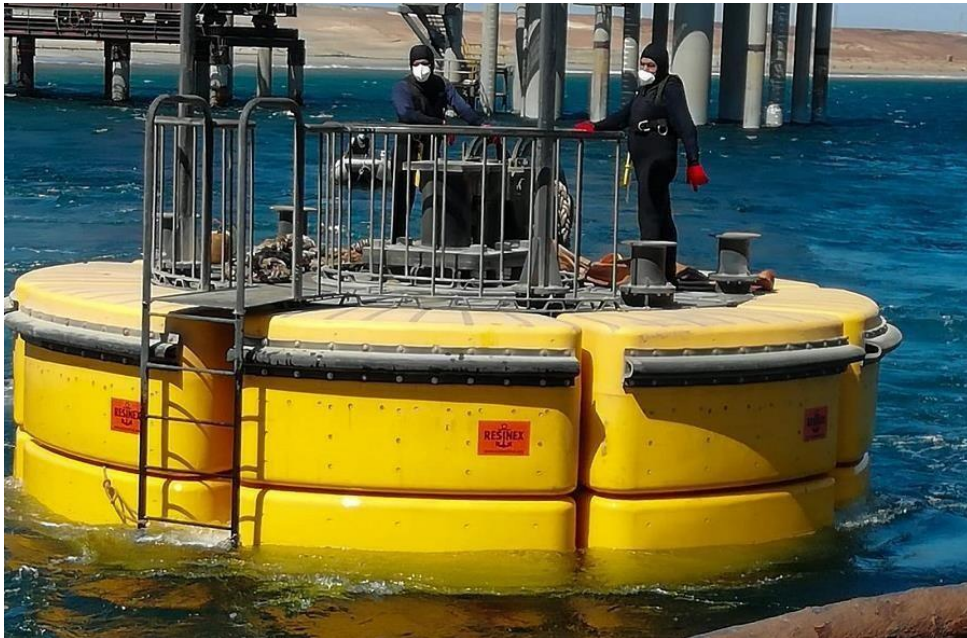


Project in Perù



- Year: 2019
- Quantity: 4
- SWL: 275 t
- Diameter: 5,8 m
- Height: 2 m
- NB: 41.000 kg

Project in Perù



Project in Nigeria



- Year: 2019
- Quantity: 1
- SWL: 125 t
- Diameter: 5,8 m
- Height: 2,2 m
- NB: 45.000 kg

Project in Nigeria



Project in New Caledonia



- Year: 2020
- Quantity: 2
- SWL: 100 t
- Diameter: 4,3 m
- Height: 1,1 m
- NB: 12.900 kg

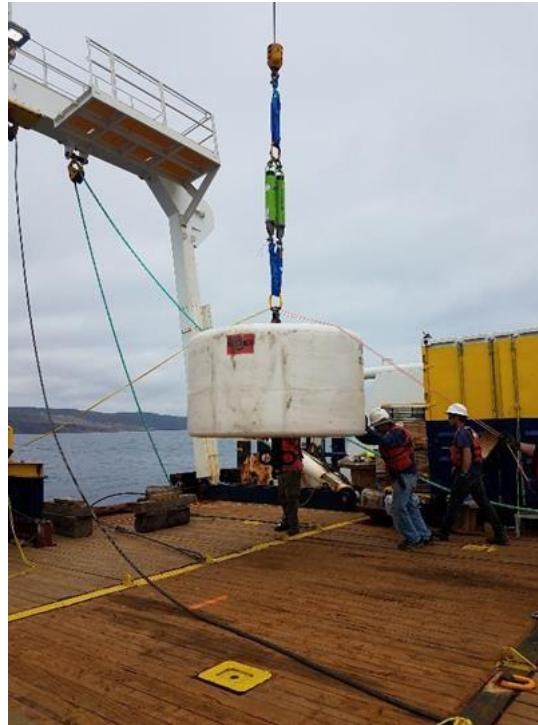
Project in New Caledonia



Project Ichthys field



- Year: 2020
- Quantity: 2
- SWL: 98 t
- Diameter: 4,3 m
- Height: 10 ,9 m
- NB: 65,55 kg



- Year: 2020
- Quantity: 1
- SWL: 12,5 t
- Diameter: 2,1 m
- Height: 1 ,2 m
- NB: 31,80 kg

Project Port Said



- Year: 2021
- Quantity: 2
- SWL: 90 t
- Diameter: 6,0 m
- Height: 2,2 m
- NB: 34 kg

Project Port Said

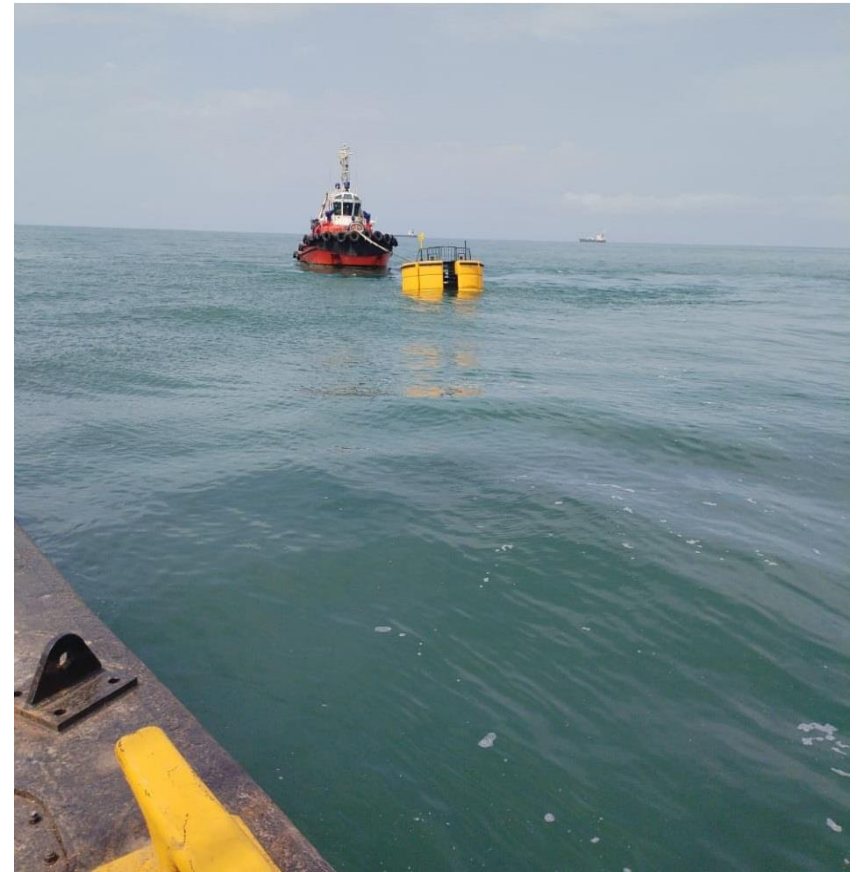


Project in Colombia



Year: 2022 Diameter: 5.8m
Height: 3.3m SWL:300t NB: 54t

Project in Colombia



Project in Curacao



Year: 2023 Diameter: 5.8m
Height: 3.3m SWL:400t NB: 50t

Project in Curacao





For further information or any request of quotation please contact us:

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