



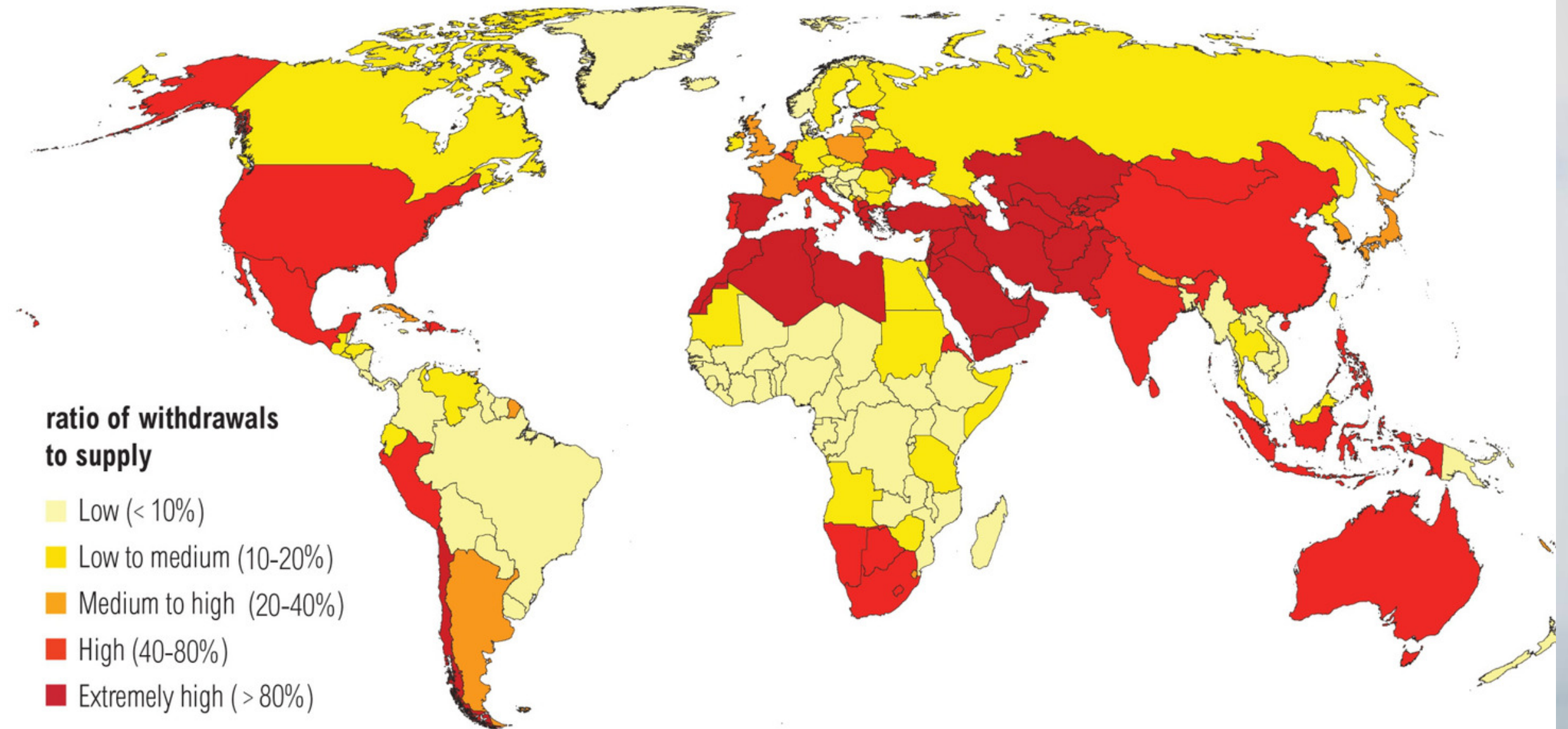
**MWP**

# **OFFSHORE DESALINATION CONCEPT**



# DESALINATION IS THE SOLUTION TO WATER SCARCITY

## Water Stress by Country: 2040



**NOTE:** Projections are based on a business-as-usual scenario using SSP2 and RCP8.5.



# FLOATING DESALINATION VESSEL

A Competitive, Environmentally Friendly, Flexible and Cost-Effective Solution



## GENERIC SOLUTION

- 100k m<sup>3</sup> / day Capacity
- Double Pass RO
- Power Generation Included
- Switchboard Systems
- HVAC System
- Accommodation etc...

## FLEXIBLE CONSTRUCTION

- Basic Units of 50k m<sup>3</sup> / day Capacity

## ADAPTED CASE BY CASE

- Capacity as per Client Needs
- Desalination Manufacturer
- Fuel System; MDO - HFO - LNG
- On Board Power Supply
- Shore Based Power Supply
- Green Energy from Shore



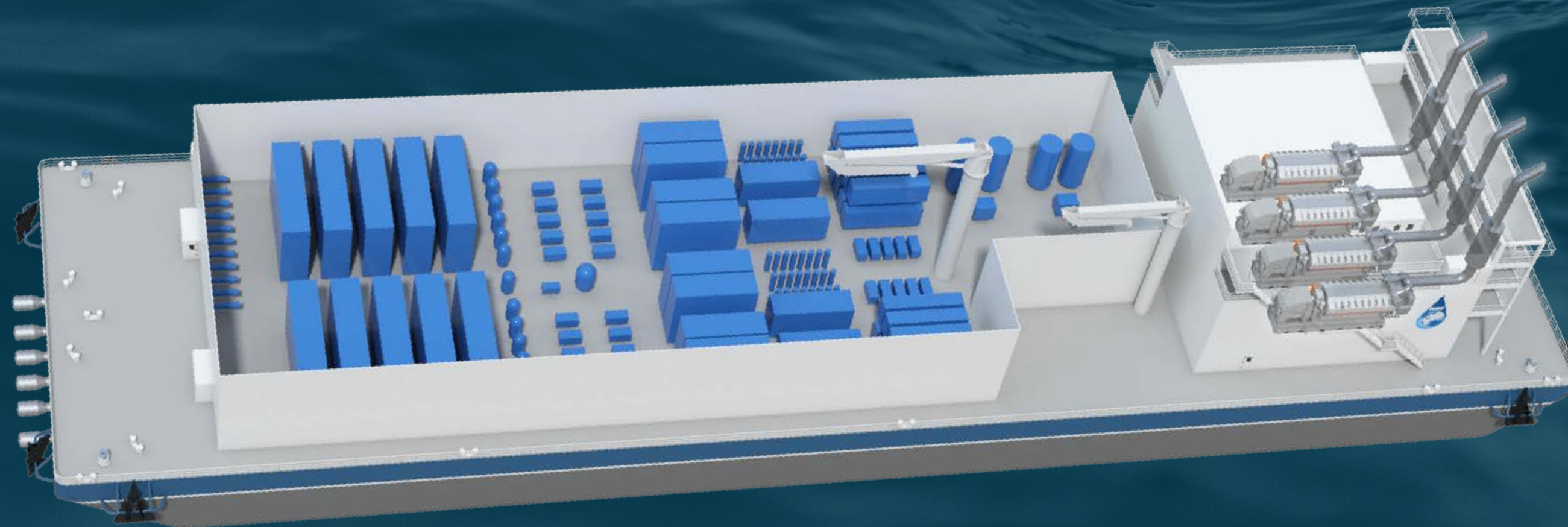
# FLOATING DESALINATION UNIT

## POTABLE WATER PRODUCTION

100.000 m<sup>3</sup> / day

## WATER PRODUCTION SPECIFICATIONS

150 ppm T D S maximum, at seawater temperature of 35°C & salinity of 45 000 ppm TDS

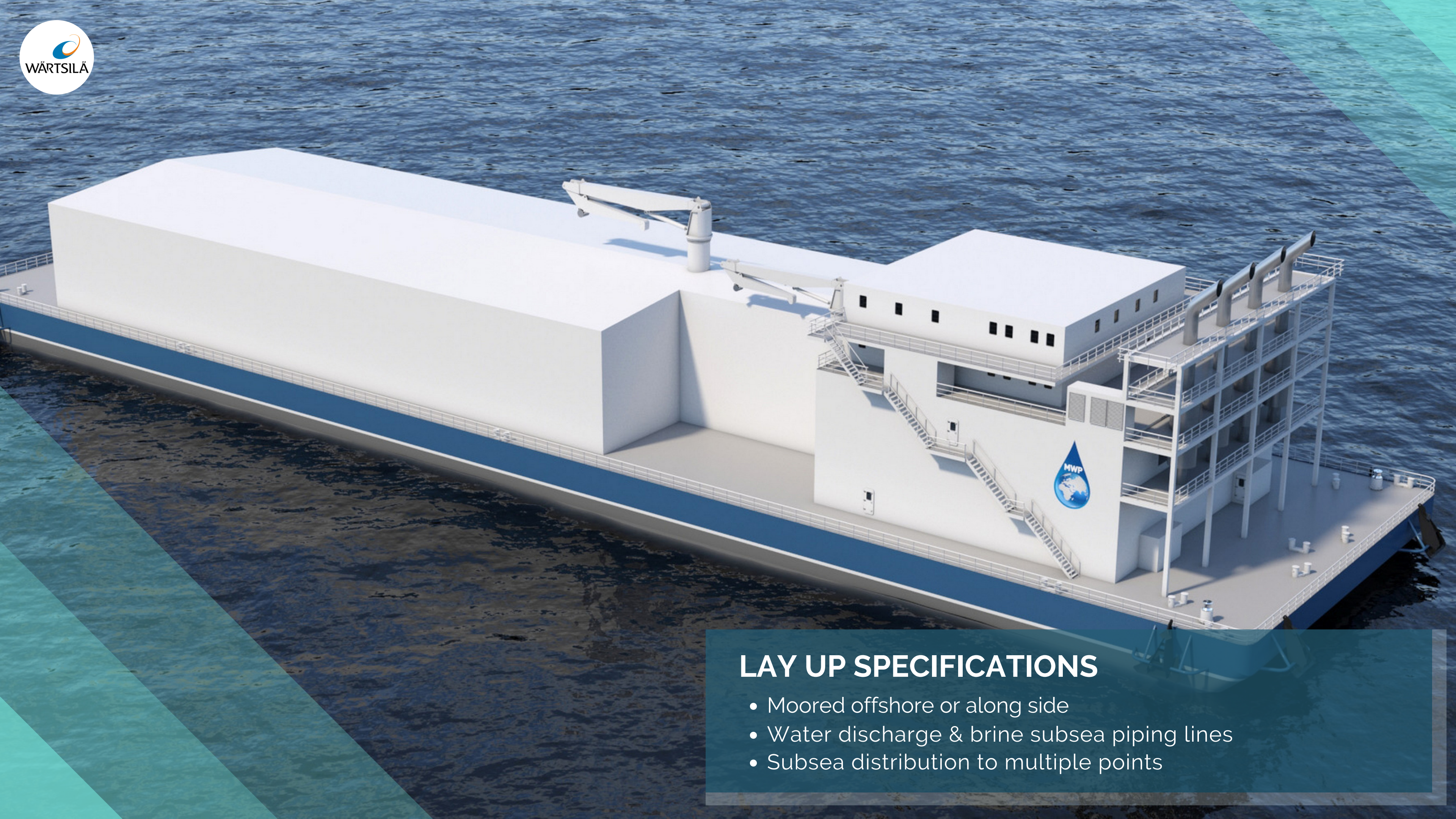




# KEY FEATURES

- Competitive Cost of Water
- Mobile Water Supply Solution
- Scandinavian Technology
- Fast Water Delivery
- No Infrastructure Investment
- No Impact on Waterfront Property
- Lower Impact on Near-Shore Environment
- Easy to Operate & Maintain





## LAY UP SPECIFICATIONS

- Moored offshore or along side
- Water discharge & brine subsea piping lines
- Subsea distribution to multiple points



# 5 POWER SOURCE OPTIONS

**MDO**

**LNG**

**WIND/  
SUN**

**SHORE  
POWER**

**COMBINATION**



PARTNERS & PROCESS CHART



Initiate, develop, finance,  
implement, co-own &  
operate floating  
desalination projects.



+ Financial  
Institutions

Financing

Trinity  
INTERNATIONAL LLP

Legal Advisor

PARTNERS  
WEBSITES

- [marinewp.com](http://marinewp.com)
- [trinityllp.com](http://trinityllp.com)
- [wartsila.com](http://wartsila.com)
- [desaliawater.com](http://desaliawater.com)
- [matglobal.tech](http://matglobal.tech)
- [clarksons.com](http://clarksons.com)
- [ceconcontracting.no](http://ceconcontracting.no)
- [wilhelmsen.com](http://wilhelmsen.com)



Sales & Development



DESALIA  
WATER



Design & Technology



Clarksons Platou

Procurement



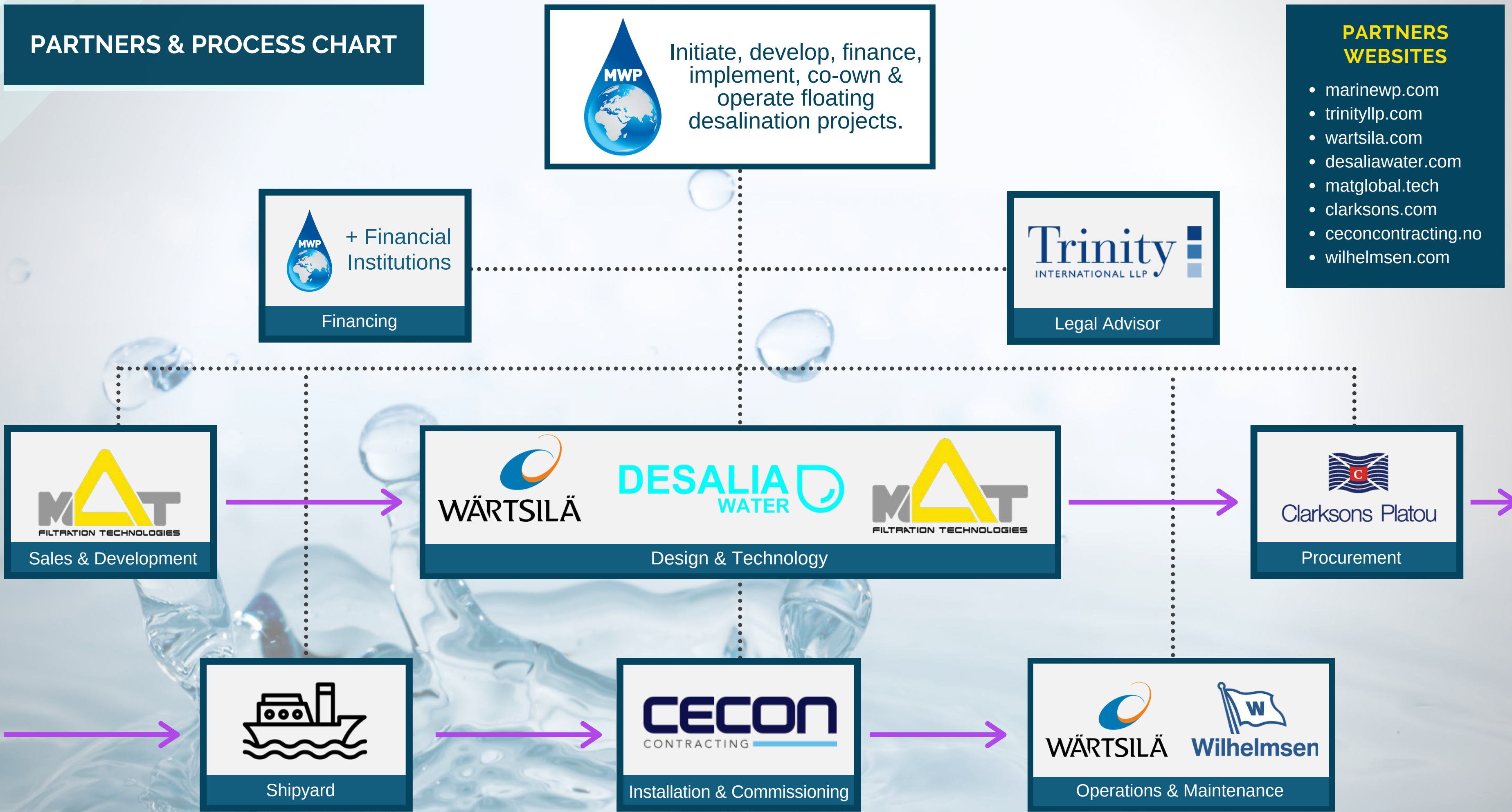
Shipyard

CECON  
CONTRACTING

Installation & Commissioning



Operations & Maintenance





# MWP MANAGEMENT TEAM

Individually with more than 30 years of experience from sale, execution, operations and financing of large infrastructure projects.



## R. RASMUS SUNDE

### Executive Chairman

MBA in Finance, UoW, Madison, USA

Experienced and result oriented leader with more than 30 years tenure from a variety of global executive and Chairman Positions including President and CEO of Aibel Group Ltd., Head of FMC Technologies' Subsea business in the Eastern Region (Africa, Europe, Caspian, Russia), CEO of Forsys Subsea Ltd (FMC-Technip JV) as well as Chairman of Sintef.

Predominantly background from Oil, Gas and Power be it emerging or mature markets, JV 's, M&A/Restructurings and/or Private Equity – worked for Aibel/Vetco/ABB (~ 20 years) and TechnipFMC (FMC ~ 10 years). Involved in the floating desalination concept for the past year.

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## TERJE GRESSLIEN

### CFO & Business Dev.

MBA in Finance, UoW, Madison, USA

Last 9 years developing Independent Power Projects in Sub-Saharan Africa. Prior to that he was fourteen years as Partner in Management & Finance AS and ten years with ABB Norway. Held executive positions within the finance area in both the parent company and the subsidiaries. CFO of Oil and Gas subsidiary. Managing Director of finance company.

Extensive experience with business development, project management, sales support project and export financing, project risk assessment, due diligence, mergers and acquisitions as well as the establishment of companies abroad. Involved in the floating desalination concept for the past two years.

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## BASTIAN JOHANSEN

### Business Dev. & Project Finance

MBA in Finance, NHH, Bergen, Norway

Partner at Manfin Consult AS, a company majority owned by Clarksons Platou. Prior to that he was Partner in Management & Finance for fourteen years. And seven years with the ABB Group, mostly within project financing and financial risk mitigation.

Has structured financing and risk coverage for large projects all over the world, as an integrated part of the sales and project development team.

Specializes in developing solutions for complex sales support project financing, as well as arranging export credit facilities. Involved in the floating desalination concept for the past two years.

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## ASLE SOLHEIM

### Chief Operating Officer

BSME UoW, Madison, USA

Project, Technology and Management experience from several companies predominantly in upstream oil and gas business as CEO of Bergen Group ASA, Maracc ASA, and SVP in ABB.

Heavily involved in Technology Development Projects and Large Floater Projects, including a semisubmersible drilling rig (Island Innovator) built at Cosco, China and several Offshore vessels built in Norway.

Significant experience from all aspects of subsea oil and gas projects from Vetco Gray, FMC and Island Offshore.

Involved in 4 start-up companies

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## VASILEIOS SKLAVOUNOS

### Development & Sales Director

BA, BU, Brussels Campus

Results driven, with over 15 years of successful entrepreneurial and new technologies development. Enthusiastic to discover new markets and cultures aiming for sustainable corporate excellence through innovation.

Predominantly background from Water & Effluent Industrial & Specialty Water Filtration Equipment Fabrication and MEP Contracting.

Worked for RSM business consultants (4 years) & MAT FILTRATION TECHNOLOGIES (2007-currently).

Involved in the floating desalination concept since Spring 2020.

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## DR MANUEL LATORRE

### Founder/ CEO Desalia Water sl Chief Technology Advisor to MWP

Dr Engineer, Valencia Polytechnic University, Spain

With more than 25 years of experience in water treatment and desalination by Reverse Osmosis, Dr Manuel Latorre has worked in different positions in design, construction, commissioning and operation of projects up from 1,000 to 280,000 m<sup>3</sup>/d with some of the most important companies in the desalination industry like Dupont, Acuamed or Acciona. His expertise in international projects in Spain, Qatar, Iran, China, UAE, Egypt, Oman, India and Cape Verde among others, brings an added value to MWP with the purpose to optimize the most advanced design based on the latest technologies and the field experiences.

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# GENERIC UNIT ASSUMPTIONS

100.000 m<sup>3</sup> / day

| DESALINATION        |                     | MOORING/SUBSEA      |                | FUEL & POWER           |                         |
|---------------------|---------------------|---------------------|----------------|------------------------|-------------------------|
| Seawater temp.      | 35° C               | Distance from shore | 500 m          | Fuel Consumption (MDO) | 1.00 l/m3               |
| Salinity            | 45000 ppm TDS       | Water depth         | 30-100 m       |                        |                         |
| Intake depth        | 15 m                | Sheltered           | yes            | Power Consumption      | 5.04 kWh/m <sup>3</sup> |
| Double Pass RO      | 150 ppm TDS maximum | Mooring lines       | 8              |                        |                         |
| Lift level delivery | Max 25 m            | Bottom conditions   | Sandy and flat |                        |                         |





# 1st OPTION

## WATER SUPPLY FOR 20 YEARS

20 Year Bankable Water Purchase Agreement with Client

**MWP SCOPE:** Arrange Turnkey Build Own Operate (BOO) Solution with Daily Supply of up to 100.000 m<sup>3</sup> potable water at fixed minimum water supply & fixed price per m<sup>3</sup>.

- Financing
- Mobilize/Moor & Operate the Unit
- Management of Fixed Crew 24-7, Remote Process Monitoring
- Daily Operation & Maintenance
- Fuel Supply
  - Management of Fuel Purchase Agreement Between Client & Source
- Fuel Logistics
  - Management of Fuel Logistics Agreement Between Client & Provider





## 2nd OPTION

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### UNIT ACQUISITION

Client purchases the desalination vessel under a bankable vessel purchase contract & optionally appoints **MWP** to operate the vessel.

**MWP SCOPE:** MWP builds & delivers special purpose desalination vessel.

#### Optional Services:

- Mobilization/Anchoring
  - Operation & Maintenance of the FDV, incl. Crew 24/7, Remote Process Monitoring + Training of Client Personnel
  - Fuel Supply
    - Management of Fuel Supply Agreement
  - Fuel Logistics
    - Management of Fuel Logistics Agreement
-



# CONTACT

For Commercial & Technical Queries

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**Development & Sales Director**

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