

Resume of Arjen Mes

Estimating Specialist Marine Works
25+ years experience



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Education	MSc Civil Engineering, Technical University Delft (1982 – 1988) Dredging course (VOUB) – HBO level 1993 Life Coach course – HBO level 2021		
Languages	Dutch, English, and some Spanish, German, French, Italian and Thai		
Employers	1989-1990	Protech International (oil & gas design) – The Netherlands	Planning Engineer
	1991-1992	Rockwater (oil & gas installation) – Singapore	Project Engineer
	1993-2026	Van Oord (marine construction) – The Netherlands	Estimator 90% Project Management 10% After 2007 working/non working 50%/50%
	2026	Freelance work	

Professional Capabilities

1) Summary

In the beginning of my career I have been on a number of projects as planning engineer, QHSE engineer, project engineer, construction manager and assistant project manager.

However, the vast majority of my working life I have been an Estimator, mainly for the dredging/marine construction company Van Oord in Gorinchem/Rotterdam. I have been mostly involved in complex projects with large interfaces, including design and purchasing aspects, spanning the whole width of Van Oord's scope of services.

<u>Levels/Types of Estimates</u>	<u>Scopes of Work Estimated</u>	<u>Not only Estimating:</u>
+ Feasibility Studies + Indicative Numbers + Detailed Tender Estimates + Open Book Estimates + Joint Venture Estimates + Variations	+ Dredging & backfilling + Rock installation deep water + Rock installation shallow water and from the dry + Steel, HDPE, concrete pipe installation + All supportive works required for the above main SOW's – see details further below	+ Execution methodology + Design optimizations + RFQ's and evaluations + Planning + Risk assessment and mitigation + Opportunity identification and development + Cashflows + Qualification recommendations

2) Detailed Estimating Experience

Dredging and backfilling works with all type of equipment	Very experienced
Landfalls of gas and oil pipelines, involving pipe pulls, cofferdams, dredging, trench maintenance and backfilling, subsea rock installation, diving works	Very experienced
SPM system installation, involving design, purchasing, installation of the pipeline(s) by pull-out or pipe lay, installation of the SPM buoys, dredging, trench maintenance and backfilling, subsea rock installation, diving works, pre-commissioning, commissioning	Very experienced
Outfall installation involving detailed design, pipe purchase (steel, PE, GRP, concrete), fabrication and installation, cofferdam, dredging, trench maintenance and backfilling, subsea rock installation, diving works, pre-commissioning	Very experienced
EPC projects	Very experienced

Write RFQ's and evaluate subcontracting activities as tunneling, TBM recovery, pipe pull, HDD, cofferdam installation, pipe fabrication, transports, etc	Very experienced
A variety of other type of projects such as GBS installation, spool piece & riser installations, free span correction works, subsea pipeline removal etc. These projects mostly require close cooperation/interface management with Specialized Subcontractors	Very experienced
Coral and Seagrass relocation, but also growing coral from larvae till setting out at designated areas	Experienced
Offshore Nature Restoration Works with i.e. Oyster Structure, Spat on Substrate, Artificial Tree Reefs, Rock and Boulder configurations	Experienced
Subsea cable installation: fiber optic and power cables	Experienced
Subsea Rock Installation for pipe stabilization & support	Experienced
Offshore wind farm installation including purchase, installation of monopiles, transition pieces, jackets, infield power cables, main power cables	Experienced
Rock Installation for breakwaters	Have done a few
Subsea drilling and blasting	Have done a few

3) Selection of Major Tenders I have been Involved in

Rovuma, Exxon, Mozambique 2025-2026 Size 1+ Billion Euro Tender under evaluation by Client	1) Design, (partly) purchase, installation, pre-commissioning of 5 pipelines & 1 umbilical nearshore and onshore. 2) Interesting aspects: a. A large coral relocation and growing scope b. The size of the tender with the large number of people working on the tender
Rifherstel XL, RvO (Government), The Netherlands 2025-2026 Size 10-50 M Euro In Consortium Successful tender	1) Nature Strengthening in the North Sea by design, purchase, installation and monitoring of o.a. artificial tree reefs, oyster banks 2) Interesting aspects: a. Working in Consortium with partners unexperienced in marine operations b. Scope and estimate development went parallel in the tendering phase

Dos Bocas, Pemex, Mexico 2022 Size 100-200 M Euro Successful tender	1) Design, purchase, installation, pre-commissioning and commissioning of 5 pipelines & 3 SPM's 2) Interesting aspects: a. very mobile sands at the landfall b. open book estimate
Barossa, Allseas, Australia 2022 Size 100-200 M Euro In joint venture Successful tender	1) Dredging including landfall, pipe pull from lay barge, stabilization of pipe by rock installation 2) Interesting aspects: a. Australian local circumstances b. Space limitations Darwin harbour
East Anglia wind park, UK 2016 Size 200-500 M Euro Successful tender	1) Transport and installation of 102 jackets 2) Interesting aspects: a. I was added to the team in the last month to "rescue" the tender. The personalities on the team were technically competent but lacked decision taking qualities b. Logistics
Borssele wind park, 4x power line installation, Tenet 2016 Size 200 - 500 M Euro Not successful tender	1) Design, purchasing, cable lay and burial, pre-commissioning and commissioning of 4 export cables from Borssele wind park 1 and 2 2) Interesting Aspects a. Very shallow waters for cable lay and burial with beaching of the lay barge b. Burial to 10 meter deep, development of a new burial tool
Anchorsholme Outfall, UU, UK 2015 Size 10-50 M Euro Not successful tender	1) Design, purchase, installation, pre-commissioning of a 2.0 m diameter HDPE pipeline 2) Interesting aspects: a. Offshore coupling of large diameter HDPE pipeline b. Combination with other projects as a winning strategy
Escravos, Nigeria 2015 Size 200 to 500 M Euro Not successful tender	1) Purchase, installation, pre-commissioning and commissioning of a pipeline & 2 SPM's 2) Interesting aspects: a. Crossing of live pipelines at very shallow waters b. Security requirements
Southstream, Zublin, Russia 2014 Size 10-50 M Euro Successful tender	1) Installation reception pit for SBMs dredging and backfilling. SBM recoveries. Pipe pulls from lay barge through tunnels to onshore. 2) Interesting aspects: a. Installation of the pull cables in the tunnels b. Scheduling and notification periods

Burlington landfall, Allseas, UK 2012 Successful tender	1) Installation works gas pipeline: pipe pull from lay barge, preparation of string yard and pulling the pipe across a bay of 3 km, 2 km of landline. Including dredging and backfilling landfall and crossing. All shore crossings were open cut 2) Interesting aspects: a. The first oil / gas pipeline being fabricated by Van Oord. b. Pipe pull 750 tonnes by combining 3 winches
Q7 wind park (renamed as Amalia Park), NL 2006 Size 100-200 M Euro Successful tender	1. Purchase, installation, pre-commissioning and commissioning of the first Dutch wind park including export cable near IJmuiden. 2. Interesting aspects: a. This was the first offshore wind park for Van Oord. The start of the successful Wind division of Van Oord b. I was the in-between between the banks and the project team concerning technical aspects
IJsselmeer crossing, NL 2006 Size 10-50 M Euro Successful tender	1) Installation 2x 48" gas lines across the IJsselmeer. The pipes were fabricated in 500 m lengths onshore and wet stored. Later to be refloated and installed by above water tie-ins using 2x backhoe dredgers and 2x crane barges 2) Interesting aspects: a. Interfaces with pipe fabricator Nacap b. Risk of floating up of light pipelines in muddy seabed
Bacton Balgzand, various main contractors, NL & UK 2005 Size 10-50 M Euro Not successful tender	1. 2 landfalls including dredging, maintenance of the trenches and backfilling 2. Interesting aspects: a. High risk project with cut throat price levels
Fujaira, VOPAC, UAE 2001 Size < 10 M Euro Successful tender	1) Design, purchase, installation, pre-commissioning and commissioning of an SPM system with 2 pipelines. Installation pipes by dual pull in a bend from stringing yard onshore to offshore barge 2) Interesting aspects: a. The first EPIC SPM system project by Van Oord.
Changi Outfall, Singapore 2001 Size 50-100 M Euro Not successful tender	1. Purchase, installation, pre-commissioning of large diameter (3.5 m OD, 8 m long sections) concrete pipe elements into 2 outfalls 2. Interesting aspects: a. Underwater installation of the large diameter

	concrete pipelines offshore within 25 mm tolerance (!). b. Optimizing of dredging and rock installation volumes
Northumberland outfalls, UK 1997 Size 10-50 M Euro Successful Tender	1. Design, purchase, installation, pre-commissioning of 5 outfalls on 3 locations. The shore crossings were by tunnel, cofferdam and open cut. 2. Interesting aspects: a. Partnership with Client and Engineer. Open book estimate. b. Recovery of TBM from reception pit offshore