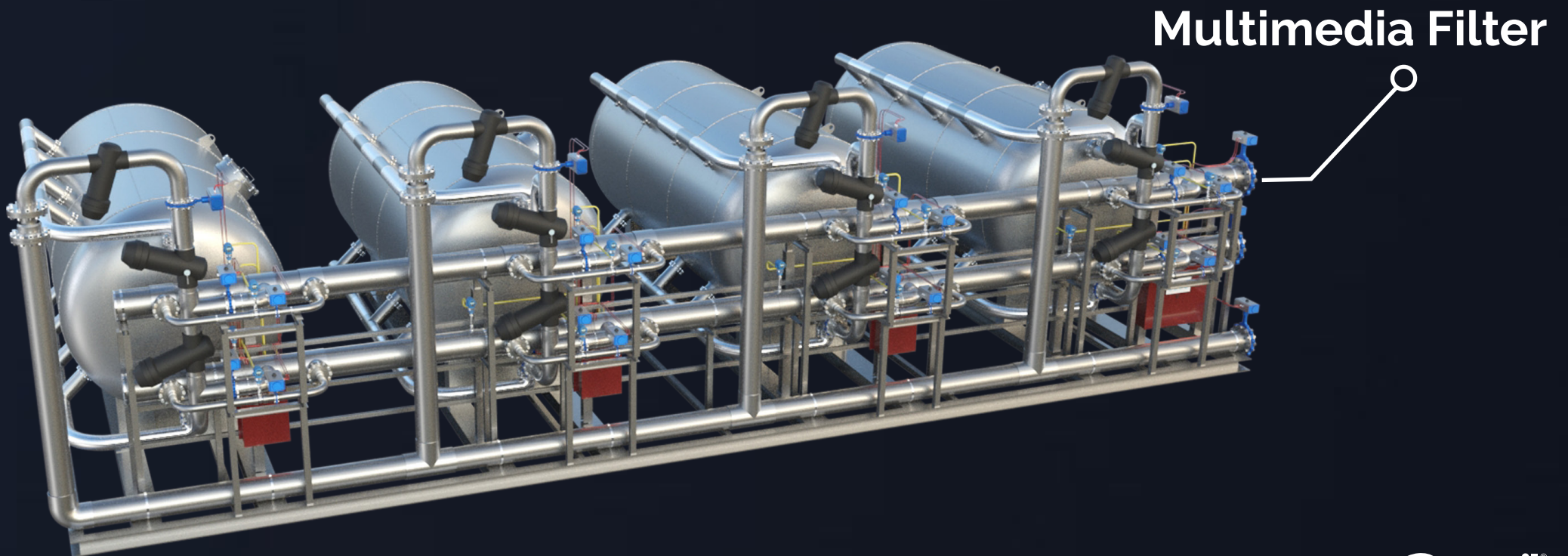


Äager

Esta Construction The Midia Gas Development Project (MGD Project)

Case Study



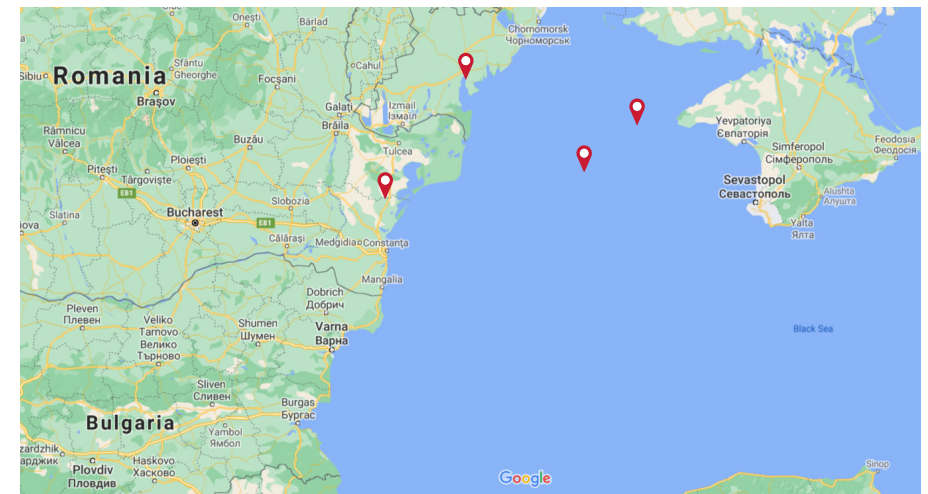
Esta Construction The Midia Gas Development Project (MGD Project)

Project Overview and Challenge:

The Midia Gas Development Project basically covers the extraction of the gas from the depth of the sea, transferring it to the land (on-shore) and processing it. As an Äger Brand ERGIL, we took place at the stages of processing, mechanical design and fabrication for the erection of the various storage tanks, pressure vessels and domestic equipment for the Gas Treatment Plant (Early gas production facility). This plant is used to treating the extracted gas and converting it into utilizable material.

In terms of reservoirs, the Midia Gas Development project (MGD project) consists of the Ana and Doina gas fields (roughly 300 Bcf P50 reserves) which were discovered in 2007 and 1995 respectively. Both are of latest Miocene to Dacian age, shallow, marine sandstone (delta-tops), biogenic gas reservoirs, some 120 km offshore Romania, in the XV Midia Shallow area where the water depths are of 70 meters.

Black Sea, Romania



A 121 km subsea pipeline will ensure the delivery of the gas from Ana platform to the shore, where a 4.1 km underground pipeline will connect to the new GTP. The processed gas will be delivered into the NTS operated by Transgaz at the gas metering station to be found within the GTP.

Esta Construction The Midia Gas Development Project (MGD Project)

Action:

ERGİL has manufactured 4 site erected tanks and 8 pressure vessels (including ladders & platforms)+Lube Oil Vessel for Midia Gas Development Project.

Site Erected Tanks are;

Firewater Tank
 Rich MEG Storage Tank
 Lean MEG Storage Tank
 Diesel Storage Tank
 Diesel Storage Tank
 manufactured & erected on ERGİL factory.

Pressure Vessels are;

Compressor Suction Scrubber
 Compressor Discharge Scrubber
 LP Vent KO Drum
 HP Vent KO Drum
 Closed Drain Drum
 Rich MEG Flash Drum
 Instrument Air Receiver
 Inert Gas Receiver
 Lube Oil Vessel

- ▣ All pressure vessels have CE Marking. (2014/68/EU/PED)
- ▣ Pressure Vessels were manufactured according to desing code EN 13445. Design Code for site erected tanks is API650.
- ▣ %100 radiographic tests were performed for all welding joints.
- ▣ PWHT (Post Weld Heat Treatment) was performed for some of the vessels like Compressor Discharge Scrubber & Compressor Suction Scrubber as per specifications.
- ▣ Hydrostatic tests were performed for all pressure vessels. Highest test pressure value is 133 Barg.
- ▣ Ultrasonic Tests (UT) & Dye Penetrant Tests (DPI) were performed for pressure vessels as well.



Esta Construction The Midia Gas Development Project (MGD Project)

Result:

This project was completed successfully and carefully with the help of Äager Brand ERGIL. In these kinds of huge projects, coordination and collaboration of sharers are extremely critical and we smoothly succeeded to complete a critical part of the project. Pressure vessels and the storage tanks we supplied are used to store the gas safely before and after processing, and any kind of engineering errors might cause serious situations. In this manner, we gained the trust of our customer and we showed an example of our high level engineering skills.



Any kind of failure during pressure calculations, erection or process of working may cause serious cost in the project, but we helped to provide the safety requirements. We showed our 40 years expertise on building storage tanks and critical equipment which are used to in dangerous environments and for especially explosive materials. Design, engineering and fabrication of vessels and tanks are part of our specialty and as other tons of customers; we built long term relationship with the end user. There is always a valid reason for our customers to trust us, and we are always winning confidence of the companies who prefer to work with us!



Äager GmbH

Germany Head Office + R&D + Sales

Herzogspitalstraße 24
Munich 80331
Germany
T: +49 89 9040 5200
W: www.aager.de
E: sales@aager.de

Azerbaijan Sales + Warehouse

Ahmad Racabli 222
Royal Plaza
5th floor, Suite 8
Baku, Azerbaijan AZ1106
T: +994 (12) 564 2256
E: sales@ergil.com

U.A.E. Sales + Warehouse

Jumeirah Lake Towers, X2 Tower 1906
P.O. Box: 123661 Dubai, U.A.E.
P : +971 4 450 8051
F: +971 4 450 8041
E: sales@ergil.com

Turkey Head Office + Sales

Ağaoğlu My Office 212
No: 3 B Blok /175
P.K 34218 Güneşli – Bağcılar
Istanbul / Turkey
T: +90 212 485 40 07
F: +90 212 485 40 42
W: www.ergil.com
E: sales@ergil.com

Turkey Factory + Engineering + R&D + Sales

Mersin Tarsus OSB.13.CD.NO:7
P.K: 33540 Mersin, Turkey
T: +90 324 676 44 04
F: +90 324 676 44 03



case study series

Robust and Efficient
Solutions
For Offshore Use

Revision No: 01
ER-CS-MGD-11.23/V1
ergil.com

November 2023