



PIPELINE AS BUILT SURVEY PROJECT

Trans Anatolia Natural Gas Pipeline (TANAP)



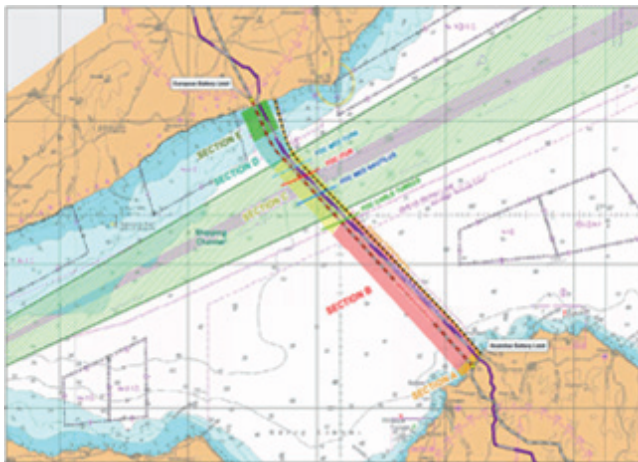
Project Details

Location: Sea of Marmara, Turkey
Water Depth: 65m
Date: June 2018
Client: IKM-AES-SAPURA ENERGY



Scope Of Work

iSURVEY Pte Ltd (ISFE) was contracted to provide detailed survey and positioning services to perform a baseline as-built survey for two 36inch gas pipelines each of 17.6km across the Sea of Marmara, Turkey. The pipelines make up one section of the TANAP pipeline system, bringing gas from Azerbaijan to Turkey and onwards to Europe. The as-built survey followed on from the task of supporting post trenching survey operations on four separate fibre optic cables across the Sea of Marmara.



TANAP Pipelines As-Built Position Overview

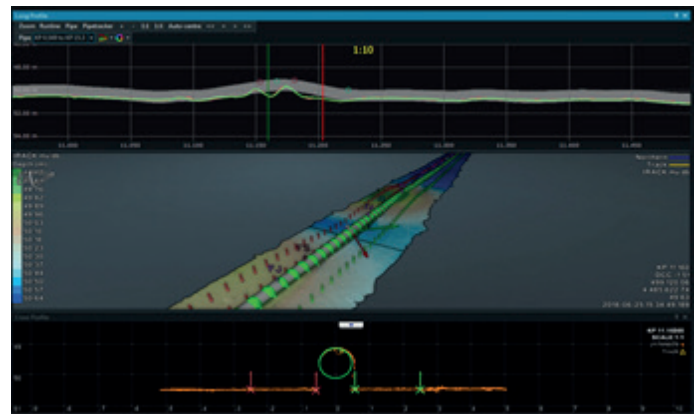
iSURVEY scope of work involved provision of:

- Survey and positioning of M/V Topaz Commander
- Subsea positioning by combined USBL/INS/DVL of the ROV during the detailed as-built operation
- Pipeline survey by dual head multibeam system
- Pipeline CP field gradient and contact survey
- Digital video recording with three cameras
- Identification and eventing of all debris, damage, freespan along with other anomalies along each pipeline
- Pipeline out of straightness (OOS) observations



M/V Topaz Commander

A dual head R2Sonic multibeam with with iXblue PHINS, Teledyne RDI DVL, Valeport MiniSVS and Sonardyne 6G transponder were installed on the ROV. This enabled determination of pipeline position including longitudinal and cross profiles and OOS data.



Pipeline Freespan Identification on the Navimodel

Digital video, and survey data acquisition was performed using iMAP, EIVA, MBES survey equipment and Digital EdgeDVR (Digital Video Recording) systems.

The CP stab observation was conducted on the installed anode on the pipeline data. The field gradient was logged and observed during the pipeline as-built. Data processing of the MBES data was performed onboard, along with video events review to compile interim results.

Final data processing and production of the results and project deliverables was performed onshore and all project deliverables delivered and accepted within the stipulated project schedule.

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