

## SAAFS MONITOR GAS PIPELINE IN INDONESIA

For a land reclamation project off the Indonesian coast near Jakarta Inventec was awarded the contract to supply and install a number of SAAFs. These serve to monitor possible deformations of an adjacent subsea gas pipeline.

In total 6 SAAFs, having a length varying from 12 to 16m, were installed in the seabed along the 2,5km long pipeline section. Because of its unique properties the SAAF was the only reliable and practical solution for this monitoring application:

- Waterproof up to 100m water column.
- One reading every 0,50m
- No obstructions: the data cables are running over the seabed from the top of the SAAFs to a central location from where the measurement data are forwarded via wireless transmission.

All SAAFs are interrogated in real-time. They will remain in continuous service for the next 4 years.

A SAAF consists of an articulated chain of 0,50m long segments that are interconnected such that they can move in relation to each other in all directions. Each segment contains a bi-axial MEMS accelerometer / inclinometer. Interrogation of the full length of the chain produces the distributed deformation in both X- and Y-direction.

For more information on the SAAF see: [SAAF Productsheet](#)



Installation of a SAAF



SAAF on transport reel



Unrolling of the data cable

