

Abengoa signs a contract with Navantia as technologist and main supplier of the AIP System for S80 submarines

- The AIP system will equip the submarine with the capacity of recharging batteries during immersion allowing operation for up to three weeks without snorkeling. The previous recharging system only allowed an operation for one or two days.

June 1st, 2020 - Abengoa (MCE: ABG/P:SM), the international company that applies innovative technology solutions for sustainability in the infrastructures, energy and water sectors, has signed a contract as a technologist and main supplier of the AIP System of the S80 submarines with the Spanish public company, leader in the design and construction of high-tech ships, Navantia.

The new propulsion system will allow the submarines to extend the mission duration thanks to the new function of recharging batteries during immersion. Until now, non-nuclear submarines used batteries in their propulsion systems that only allowed them to operate in immersion for a day or two. Now, with the new AIP system, this period is extended up to three weeks.

The AIP System consists of several main equipment: Bioethanol Processor System (BPS), Fuel Cell Power Module (FCPM), Power Conditioning System (PCS), CO2 Disposal System (SECO2) and AIP Control System (AIPCS). Abengoa is in charge of the design, manufacture and validation of several of these main equipment (BPS, PCS and AIPCS), as well as the integration of the FCPM and SECO2 to guarantee the required performance, functionality and operability.

In order to meet the stringent demands that this program requires, a multitude of challenges have been overcome, taking technology to a new level. An example of this is the complex design of BPS, which not only meets the efficiency, performance, robustness and safety requirements, but also complies with the demanding requirements regarding size and maintainability inside the submarine.

This technological challenge has been possible thanks to the intense collaboration between the Ministry of Defense, Navantia and Abengoa.

This project represents a new milestone in Abengoa's Defense activity and, in particular, for its Hydrogen business strategy, in which Abengoa has been working

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About Abengoa

Abengoa (MCE: ABG/P:SM) applies innovative technology solutions for sustainability in the infrastructures, energy and water sectors. (www.abengoa.com)

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