

Rechargeable battery and energy harvesting systems for submarine networks

Sector: Marine monitoring & surveillance

Short description of the needs:

WSense develops underwater wireless networks for the continuous monitoring of critical infrastructure, marine protected areas and offshore installations.

One of the operational constraints of underwater networks concerns the energy autonomy of underwater nodes, which currently depends on battery capacity and maintenance interventions. The need for innovation concerns the research and integration of new rechargeable power solutions, including energy harvesting systems based on marine currents, thermal gradients or other environmental sources available in the underwater environment, with the aim of significantly extending the operational life of the nodes, reducing maintenance costs and frequency, increasing network reliability and making continuous long-term monitoring sustainable.

More info: For more information apply to eccentric@imast.it

Company: WSense S.r.l.

Point of contact for the brief/challenge: IMAST - Distretto Tecnologico per l'Ingegneria dei Materiali Polimerici e Compositi e Strutture

Company position in the value chain: OEM