

SUPPORT, THROUGH THE COLLECTION AND ANALYSIS OF ENVIRONMENTAL BASELINE INFORMATION, THE SUSTAINABLE GROWTH OF MARINE ENERGY USE IN OFFSHORE AREAS OF INTEREST - COLOMBIAN CARIBBEAN.



Project Code: PRY-BEM-427-24

Problem/Opportunity: As part of the actions that must be fulfilled to achieve the goals of the energy transition in Colombia, the Mission of Research and Innovation of the Energy Transition, proposes to 2034; guarantee the incorporation of new services, business models and national technological developments in all new energy generation projects from renewable sources, including offshore wind. In line with these commitments, one of the objectives of the current National Development Plan is to promote the implementation of generation from alternative renewable sources, as well as energy diversification based on the promotion of hydrogen, the use of biomass, geothermal, tidal, wind and solar energy.

The strategic alliance between the ANH and Invemar, for its part, is based on the viability of research projects within the framework of the Programme for the Environmental Baseline Survey of New Frontiers for the Development of the Hydrocarbon Sector in the Offshore Environment of the Colombian Caribbean and Pacific. Given the needs of the country, this project proposes to carry out the processing, analysis and evaluation of the information collected through the research campaign developed in the continental shelf sector of the department of La Guajira (Contract TDSE-SCTO-60-828-10-2023 ANH-INVEMAR 2023), generating the information inputs for the environmental baseline study for the possible development of offshore wind energy. Likewise, the collection and preparation of the environmental baseline information of the area available for the development of wind energy projects corresponding to a sector of the General Nomination Area will be carried out in conjunction with the component on the continental shelf of the Area proposed by DIMAR (in accordance with ANNEX A of Resolution No. 40284 of 2022). Finally, this project will provide continuity to the joint communication strategy of the ANH-Invemar alliance to inform the country of the milestones and progress of this alliance.

General objective:

To combine the technical, human, administrative and financial efforts of INVEMAR and ANH in order to promote, within the limits of their respective competences, actions of reinforcement, cooperation, research and mutual support. These actions are aimed at generating scientific knowledge and improving access to offshore areas of interest, which will allow the evaluation of environmental alternatives in order to

support the assessment of the country's marine energy potential, with a view to its energy transition.

Specific objectives:

Carry out the collection and analysis of environmental information for a sector of the nomination area for the development of wind energy projects. This will provide a baseline of abiotic and biotic knowledge as an input for the identification of sensitive natural elements with a view to establishing provisions for their environmentally sustainable management.

Carry out the processing, identification and appropriate qualitative, quantitative, biological and ecological analysis of the benthic macrofauna community in the area.

Carry out the processing, identification and appropriate qualitative, quantitative, biological and ecological analysis of the benthic megafauna of the area.

Continue to use the dissemination channels available to the ANH and INVEMAR to publicise the progress and results achieved within the framework of the inter-institutional agreement, maintaining the 'Science for Sustainable Development' label.

Coordinate with the ANH Communication Office the guidelines for the dissemination of key messages related to the programme and define joint dissemination strategies.

Design graphic/audiovisual and infographic pieces with key messages and figures for the programme's target audiences (reels explaining how the information is collected and what the Agency does with the information it receives from the Institute, as an example).

Support the coverage of activities carried out within the framework of the programme.

Develop a face-to-face meeting at INVEMAR's facilities, with a focus on information management, to support the development of activities in the hydrocarbon and marine energy industries.

Target population:

Dirección general Marítima – DIMAR, Instituto Colombiano de Antropología e Historia – ICANH, Ministerio de Minas y Energía – Energía, Unidad de Planeación Minero Energética – UPME, Agencia Nacional de Infraestructura – ANI, Comisión de Regulación de Energía y Gas – CREG, Ministerio del Interior -Interior, Ministerio de Ambiente y Desarrollo Sostenible – Ambiente, Asociación de Corporaciones

APOYO AL CRECIMIENTO SOSTENIBLE DEL DESPLIEGUE DE ENERGÍAS MARINAS EN ÁREAS DE INTERÉS COSTA AFUERA – CARIBE COLOMBIANO, MEDIANTE EL LEVANTAMIENTO Y ANÁLISIS DE INFORMACIÓN DE LÍNEA BASE AMBIENTAL



Autónomas Regionales y de Desarrollo Sostenible – ASOCARS, Autoridad Nacional de Licencias Ambientales, Autoridad Nacional de Acuicultura y Pesca - AUNAP

To which SDG does the project contribute? (*see SDG list with images)

UN Ocean Decade of Science and Sustainable Development Outcomes (Select with a click)

1. A clean ocean where sources of pollution are identified and removed ☐
2. A healthy and resilient ocean where marine ecosystems are mapped and protected ☐
3. A predicted ocean where society has the capacity to understand current and future ocean conditions ☐
4. A safe ocean where people are protected from ocean hazards. ☐
5. A sustainably harvested and productive ocean ensuring the provision of food supply ☐
6. A transparent ocean with open access to data, information and technologies ☐

Insert the SDG image of the SDG. Copy and paste the image



available on page 2.

Expected Outputs: Please include all the outputs committed in the contractual agreement with the funding source.

1. Detailed Work Plan and Chronogram broken down by subject.
2. First Technical Progress Report (ITA-1) of Management and Financial Progress on the proposed Themes against the Detailed Work Plan.
3. A Final Technical, Management and Financial Report (ITF), containing all the products committed in each of the proposed thematic areas, as follows: 1) Characterisation of the geospheric component of the area of interest, 2) Description of the hydrodynamics of the area of interest, 3) Characterisation and evaluation of the environmental conditions of the seabed sediment of the area of interest, including the comparison with national and international references, 4) Characterisation of the benthic component (macrofauna, 5) Characterisation of the pelagic component of the area of interest, 6) Geodatabase and cartography with standard symbology for the associated viewers and maps, 7) Technical documentation describing the associated methodology, data collected, analysis processes and any other relevant aspects, 8) Characterisation of the benthic component (macrofauna and megafauna) of the area of interest, 9) A document compiling the communication actions implemented in accordance with the Communications Plan already proposed and updated for the current period, with its respective annexes, 10) A bank of graphic, infographic and/or audiovisual pieces constructed to highlight key messages in the framework of the programme and 11) Consolidated inputs (presentations, audiovisual material, annotations and conclusions) obtained in the face-to-face meeting on offshore environmental information management.

Geographic area of the project:

Guajira Wind Farm Study Area and Galerazamba Wind Farm Area of Interest, for the generation of environmental baseline information for the sector of the General Nomination Area.

Duration: 25/07/24 to 13/12/24

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Financing Institution: National Hydrocarbon Agency - ANH

Institutions participating in the project:

INVEMAR and ANH

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INVEMAR programs, areas or coordinations participating in the project:

Biodiversity and Marine Ecosystems Programme (BEM)

Marine Environmental Quality Programme (CAM)

Marine and Coastal Geosciences Programme (GEO)

Coordination of Research and Information for Marine and Coastal Management (GEZ)

Representative image: (Insert photo and short description)



Schematic representation of the Project's themes.

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Sustainable Development Goals List of Images

SDG 1: Eradicating poverty in all its forms.		SDG 11: Make cities and human settlements inclusive, safe, resilient and sustainable	
SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture.		SDG 12: Ensure sustainable consumption and production patterns	
SDG 3: Ensure healthy lives and promote well-being for all at all ages		SDG 13: Take urgent action to combat climate change and its impacts	
SDG 4: Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all		SDG 14: Conserve and sustainably use the oceans, seas and marine resources for sustainable development	
SDG 5: Achieve gender equality and empower all women and girls		SDG 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	
SDG 6: Ensure availability and sustainable management of water and sanitation for all			
SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all			