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**COMPETITIVE PROCESS FOR GRANTING THE TEMPORARY OCCUPANCY PERMIT
OVER MARITIME AREAS, FOR THE DEVELOPMENT OF OFFSHORE
WIND ENERGY GENERATION PROJECTS IN COLOMBIA**

ANNEX A

**AREAS FOR THE DEVELOPMENT OF OFFSHORE WIND FARMS
2023**

Wind farms are capable of supplying significant amounts of energy to various geographical areas, while also reducing greenhouse gas emissions as they replace fossil fuels, contributing towards the Sustainable Development Goals of the 2030 Agenda (Cranmer & Baker, 2020; Akhtar et al., 2021).

Colombia boasts substantial offshore wind potential, evidenced by measurements, studies, and research conducted on the Caribbean coast, primarily in the department of La Guajira (Pinilla, 2008). While the country possesses the conditions for rolling out large-scale projects, wind energy generation in Colombia still stands at a mere 0.1% due to various legal, social, cultural, economic, and technological constraints. Nevertheless, in 2014, the enactment of Law 1715 of 2014 laid down incentives to spur the development of alternative energy sources and their integration into the energy market, with the aim of boosting capacity from 1.5 to 4 GW by 2030 (MinMinas, 2015; González, 2019).

This document presents the areas designated for the development of offshore wind farms, as defined in Resolution 40284 of 2022.

1. LOCATION

Per ANNEX A of Resolution No. 40284 of 2022, the designated area for the development of offshore wind energy generation projects includes two polygons: the first is the General Nomination Area, and the second is the Area proposed by DIMAR (Figure 1).

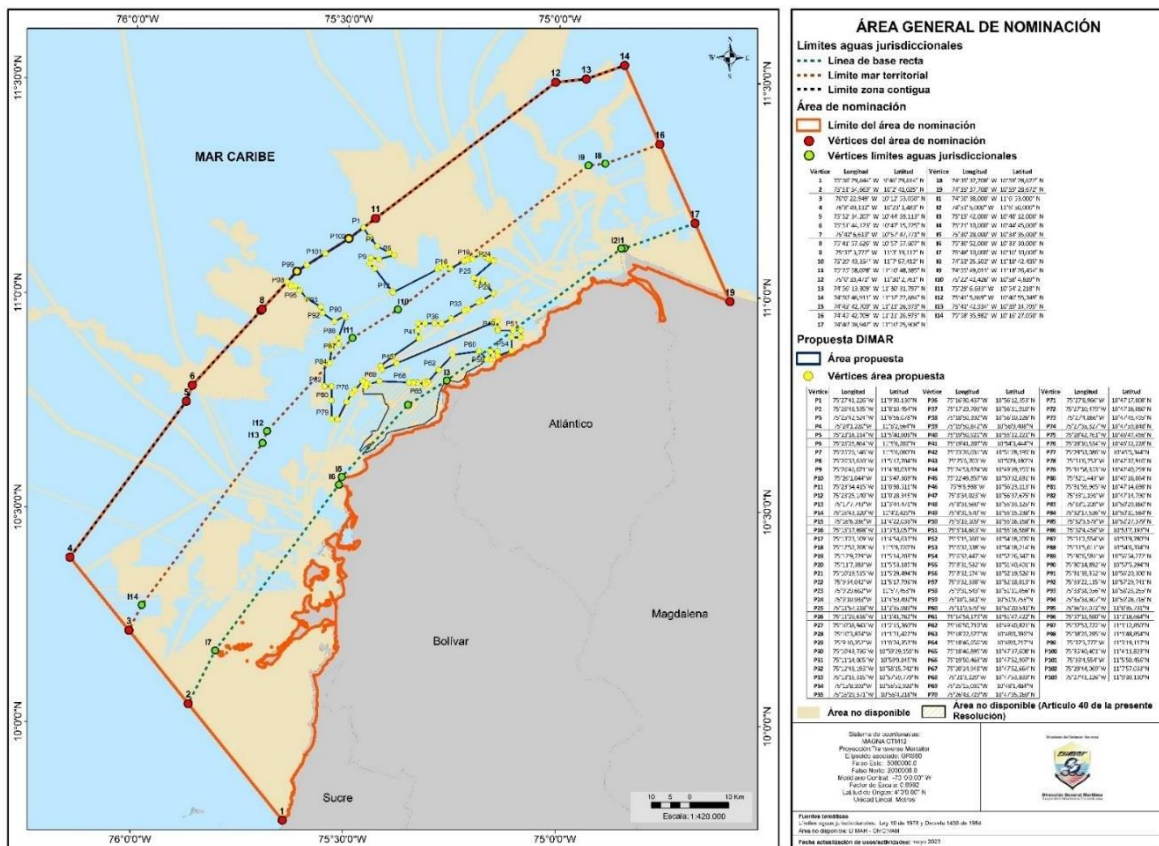


Figure 1. Geographical location of the General Nomination Area and the Area proposed by DIMAR.

The General Nomination Area encompasses the coastal regions of Atlántico, Bolívar, southern Magdalena, and northern Sucre departments, extending into the Caribbean Sea and covering 10,664.974 km². The coordinates for the area's vertices are detailed in Table 1.

Table 1. Nomination area vertices

Verte x	Longitude	Latitude	Vert ex	Longitude	Latitude
1	75°38'29,844"O	9°46'29,814"N	18	74°35'37,708"O	10°59'28,672"N
2	75°51'54,663"O	10°2'41,025"N	19	74°35'37,708"O	10°59'28,672"N
3	76°0'22,949"O	10°12'53,050"N	11	74°50'38,000"O	11°6'53,000"N
4	76°8'49,132"O	10°23'1,483"N	12	74°51'5,000"O	11°6'50,000"N
5	75°52'34,207"O	10°44'59,113"N	13	75°15'42,000"O	10°48'12,000"N
6	75°51'44,123"O	10°47'15,225"N	14	75°21'10,000"O	10°44'45,000"N
7	75°42'6,613"O	10°57'47,771"N	15	75°30'28,000"O	10°34'35,000"N
8	75°41'57,626"O	10°57'57,607"N	16	75°30'52,000"O	10°33'30,000"N
9	75°37'3,777"O	11°3'19,117"N	17	75°48'10,000"O	10°10'10,000"N
10	75°29'43,354"O	11°7'57,412"N	18	74°53'25,502"O	11°18'42,435"N
11	75°25'58,028"O	11°10'48,385"N	19	74°55'49,011"O	11°18'26,454"N
12	75°0'33,471"O	11°30'2,761"N	110	75°22'42,426"O	10°58'4,839"N
13	74°56'13,309"O	11°30'31,797"N	111	75°29'6,633"O	10°54'2,218"N
14	74°50'46,911"O	11°32'27,884"N	112	75°41'5,869"O	10°40'55,349"N
15	74°45'42,709"O	11°21'26,973"N	113	75°41'42,934"O	10°39'14,795"N
16	74°45'42,709"O	11°21'26,973"N	114	75°58'35,982"O	10°16'27,050"N
17	74°40'38,947"O	11°10'25,908"N			

The Area proposed by DIMAR lies within the General Nomination Area, off the coasts of Atlántico and Bolívar departments, spanning 1,203.126 km², bordered by the coordinates listed in Table 2.

Table 2. Vertices of the Area proposed by DIMAR

Vertex	Longitude	Latitude	Vert ex	Longitude	Latitude	Verte x	Longitude	Latitude
P1	75°27'41,226"W	11°9'30,130"N	P36	75°16'30,437"W	10°56'12,353"N	P71	75°27'8,966"W	10°47'17,008"N
P2	75°26'48,535"W	11°8'10,454"N	P37	75°17'29,703"W	10°56'11,910"N	P72	75°27'10,479"W	10°47'16,060"N
P3	75°25'42,524"W	11°6'56,078"N	P38	75°18'50,392"W	10°56'10,226"N	P73	75°27'4,866"W	10°47'43,495"N
P4	75°24'1,220"W	11°6'2,664"N	P39	75°19'50,842"W	10°56'9,408"N	P74	75°27'35,327"W	10°47'59,848"N
P5	75°23'18,214"W	11°5'40,906"N	P40	75°19'50,921"W	10°55'12,221"N	P75	75°28'42,761"W	10°46'47,456"N
P6	75°25'25,864"W	11°5'6,202"N	P41	75°19'41,207"W	10°54'3,444"N	P76	75°29'10,554"W	10°46'12,228"N

Vertex	Longitude	Latitude	Vertex	Longitude	Latitude	Vertex	Longitude	Latitude
P7	75°25'26,146"W	11°5'6,000"N	P42	75°23'26,031"W	10°51'28,195"N	P77	75°29'53,086"W	10°45'5,344"N
P8	75°26'33,610"W	11°5'17,704"N	P43	75°25'6,703"W	10°50'9,180"N	P78	75°31'6,753"W	10°42'37,910"N
P9	75°26'46,671"W	11°4'30,033"N	P44	75°24'53,974"W	10°49'39,155"N	P79	75°31'58,353"W	10°42'40,259"N
P10	75°26'1,044"W	11°3'47,369"N	P45	75°22'49,857"W	10°50'32,631"N	P80	75°32'1,443"W	10°45'16,064"N
P11	75°23'34,415"W	11°0'38,511"N	P46	75°9'8,938"W	10°56'23,113"N	P81	75°31'59,965"W	10°47'14,698"N
P12	75°23'25,140"W	11°0'28,345"N	P47	75°8'34,023"W	10°56'37,675"N	P82	75°33'1,191"W	10°47'14,790"N
P13	75°17'7,743"W	11°3'44,471"N	P48	75°8'33,560"W	10°55'33,125"N	P83	75°33'1,209"W	10°50'29,860"N
P14	75°16'43,220"W	11°4'2,429"N	P49	75°8'31,570"W	10°55'15,238"N	P84	75°32'17,536"W	10°50'31,584"N
P15	75°16'6,336"W	11°4'22,036"N	P50	75°6'19,109"W	10°55'16,158"N	P85	75°32'3,578"W	10°52'27,379"N
P16	75°15'17,898"W	11°3'53,057"N	P51	75°5'14,663"W	10°55'16,569"N	P86	75°32'4,459"W	10°53'7,193"N
P17	75°13'23,109"W	11°4'54,633"N	P52	75°5'15,360"W	10°54'18,205"N	P87	75°31'2,554"W	10°53'9,780"N
P18	75°12'52,768"W	11°5'9,220"N	P53	75°6'32,338"W	10°54'18,214"N	P88	75°31'5,611"W	10°54'6,334"N
P19	75°12'9,729"W	11°5'14,203"N	P54	75°6'32,447"W	10°52'26,347"N	P89	75°30'6,581"W	10°56'54,272"N
P20	75°11'7,383"W	11°5'53,185"N	P55	75°8'31,532"W	10°51'40,401"N	P90	75°30'14,892"W	10°57'5,294"N
P21	75°10'19,515"W	11°5'29,494"N	P56	75°8'32,174"W	10°52'19,526"N	P91	75°31'39,352"W	10°56'20,300"N
P22	75°9'54,042"W	11°5'17,796"N	P57	75°9'32,338"W	10°52'18,013"N	P92	75°33'22,115"W	10°57'29,741"N
P23	75°9'29,682"W	11°5'7,453"N	P58	75°9'31,543"W	10°51'11,056"N	P93	75°33'38,956"W	10°58'23,255"N
P24	75°9'10,933"W	11°4'59,492"N	P59	75°10'1,381"W	10°51'9,755"N	P94	75°35'33,807"W	10°59'28,716"N
P25	75°11'57,218"W	11°2'35,989"N	P60	75°11'9,579"W	10°52'20,541"N	P95	75°36'37,072"W	11°0'35,731"N
P26	75°11'29,616"W	11°1'41,762"N	P61	75°14'54,173"W	10°51'47,422"N	P96	75°37'15,590"W	11°1'18,664"N
P27	75°10'38,943"W	11°2'15,360"N	P62	75°16'50,710"W	10°49'40,821"N	P97	75°37'53,722"W	11°1'12,850"N
P28	75°10'3,874"W	11°1'31,422"N	P63	75°18'22,677"W	10°48'0,396"N	P98	75°38'26,295"W	11°1'48,854"N
P29	75°9'10,352"W	11°0'24,353"N	P64	75°18'46,656"W	10°48'0,217"N	P99	75°37'3,777"W	11°3'19,117"N
P30	75°10'43,736"W	10°59'29,150"N	P65	75°18'46,895"W	10°47'37,608"N	P100	75°35'40,401"W	11°4'11,823"N
P31	75°11'14,005"W	10°59'9,845"N	P66	75°19'50,463"W	10°47'52,997"N	P101	75°33'4,554"W	11°5'50,456"N
P32	75°12'48,193"W	10°58'15,742"N	P67	75°20'24,948"W	10°47'52,664"N	P102	75°29'44,069"W	11°7'57,033"N
P33	75°13'15,315"W	10°57'59,779"N	P68	75°21'3,229"W	10°47'53,833"N	P103	75°27'41,226"W	11°9'30,130"N
P34	75°15'8,393"W	10°56'52,920"N	P69	75°25'15,031"W	10°48'1,484"N			
P35	75°16'29,371"W	10°56'4,218"N	P70	75°26'43,729"W	10°47'35,269"N			