

ELECTRIC CORPORATION OF ECUADOR

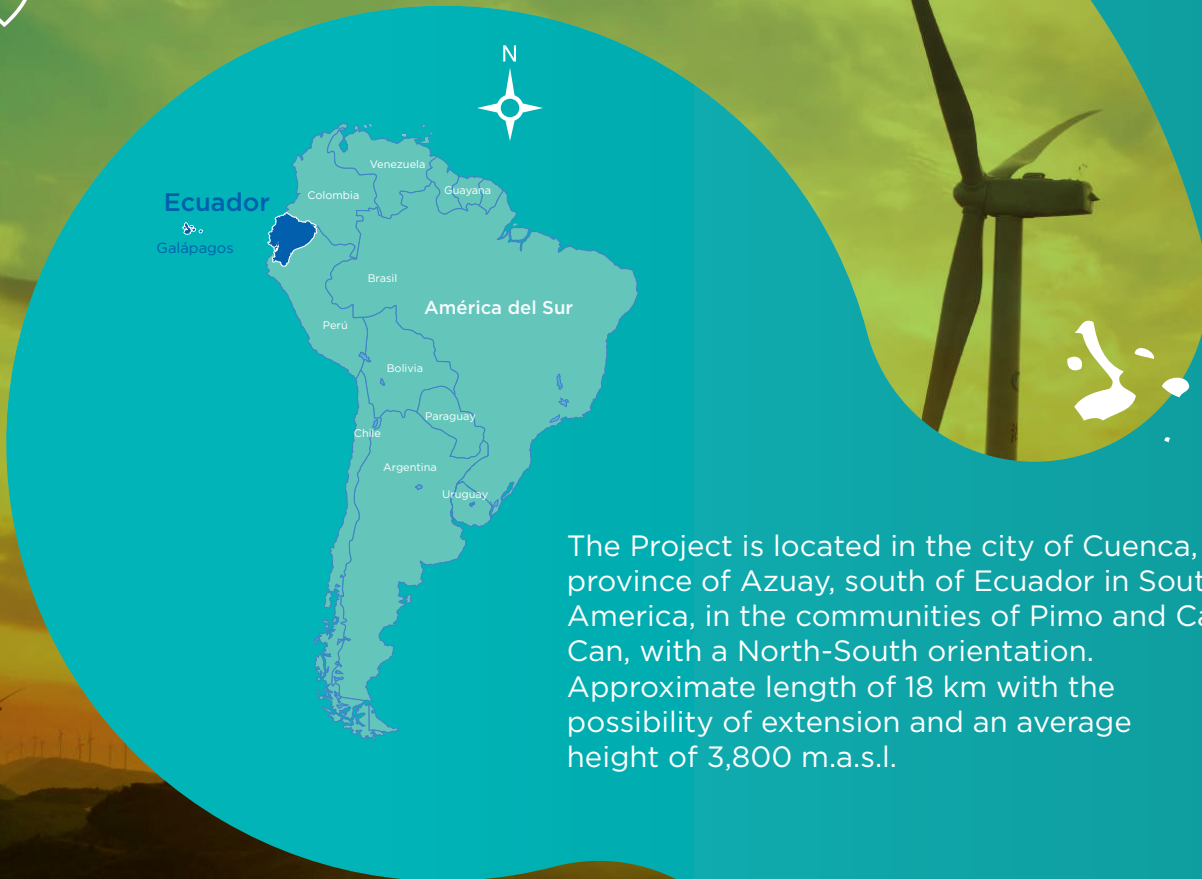
El Pimo Wind Project



Futuro Energético

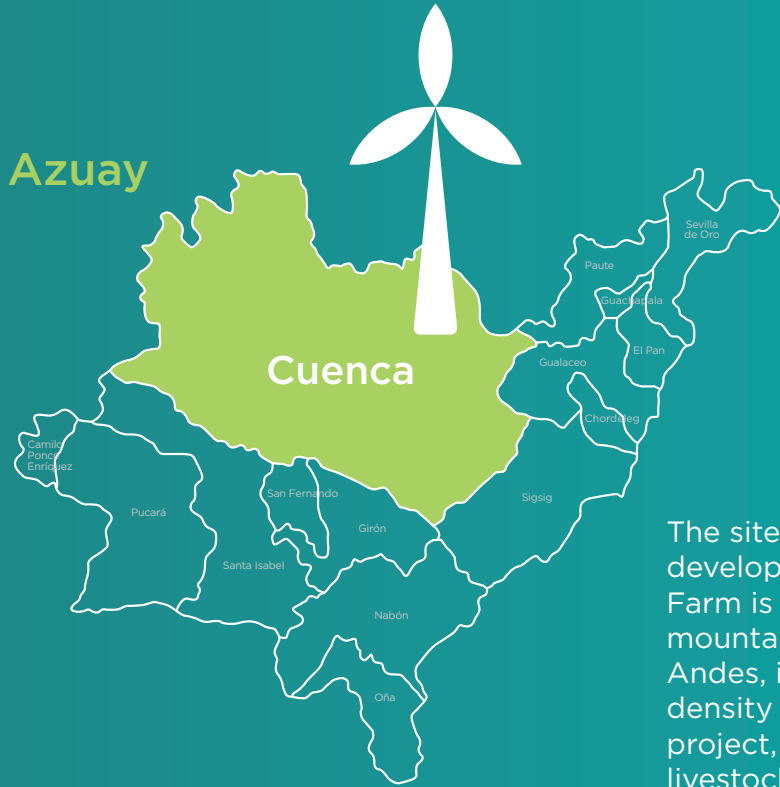


LOCATION



The Project is located in the city of Cuenca, province of Azuay, south of Ecuador in South America, in the communities of Pimo and Can Can, with a North-South orientation. Approximate length of 18 km with the possibility of extension and an average height of 3,800 m.a.s.l.





The site established for the development of the Pimo Wind Farm is located in the western mountain range of the southern Andes, in a paramo zone. There is low density population in the zone of the project, and they are dedicated to livestock cattle raising. The defined area is outside National Parks and Protected Areas.

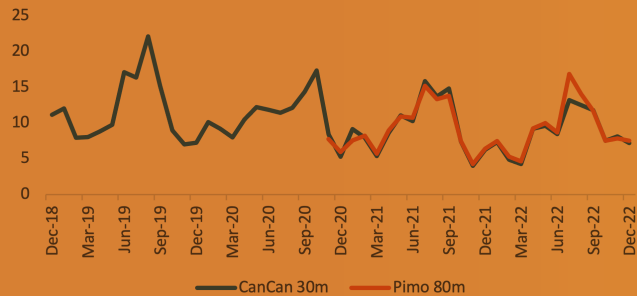




The Project implementation site is located 18 km from the community of Soldados, belonging to the canton Cuenca.

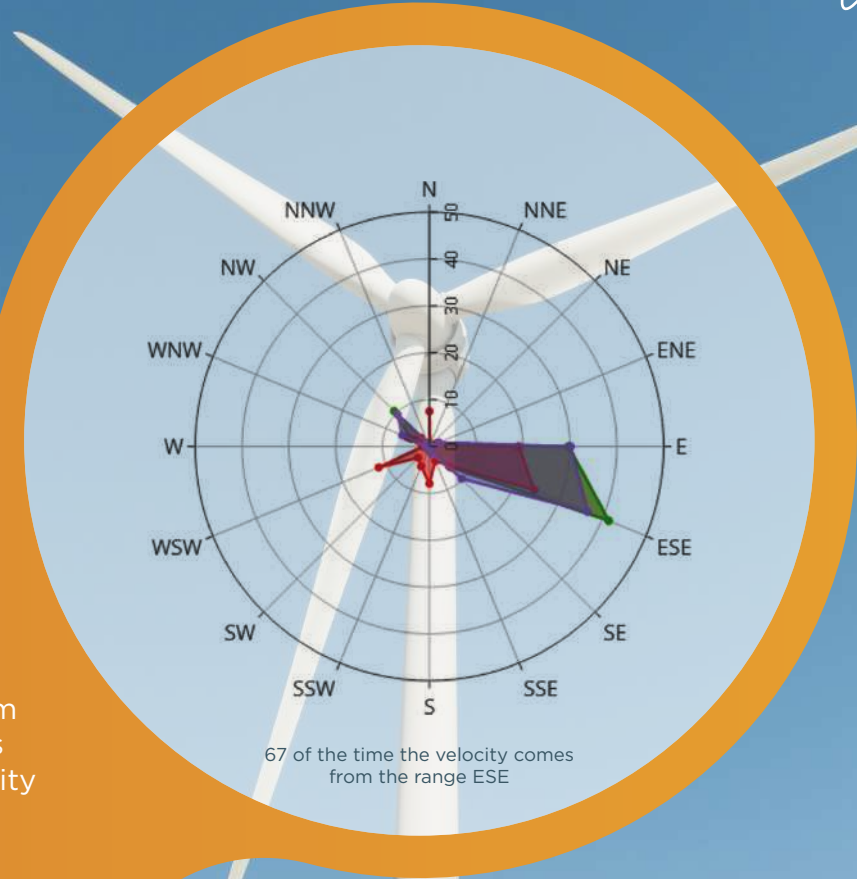
In 2021, the preliminary road study was carried out in order to analyze the feasibility of transporting the electromechanical equipment for the wind farm. As a result, it was established that the most efficient road for this objective is the road that comes from Puerto Bolivar, goes through San Carlos, Chaucha and gets to Pimo, certain sections of the road must be adequate. There is a referential estimated budget that must be validated through a definite design study. CELEC EP has developed the terms of reference for this contract.

Since 2018 wind resource prospecting has been carried out. In 2018 a 30 m tower was installed in Can Can and in 2020 another 80 m tower was installed in Pimo, which has the MEASNET certification of its installation, and of the generated data. According to the information obtained, there is an average speed of 9.3 m/s, with a predominant ESE direction (East-South-East 120°).



Monthly average wind velocity in Pimo. The windiest months are from June to September. Source: CELEC EP

With the information obtained from measurement campaigns and the sensitive areas established in the socio-environmental evaluation, a preliminary design of the wind farm of 35 wind turbines of 4.3 MW was carried out with an installed capacity of 150 MW, with the possibility of expansion to 200 MW.





	Level of study	Profile of the project		
	Existing studies	<ul style="list-style-type: none"> • Geological site evaluation • Preliminary socioenvironmental evaluation • Internal and external routes study • Energy analysis and preliminary design 		
	Power (MW)	150-200	Energy (GWh/year)	650 - 860
	Estimated plant factor (%) and average speed	54% - 9,3 m/s	Date of approval of design/studies	No study
	Estimated construction time	24 months		
	Estimated construction budget	225 - 300 (MM USD)		





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