CT-EN-002 — Wind Energy

origo_id	CT-EN-002
origo_label	Wind Energy
sector	EN
source	origo
cpi_aligned	Renewable energy generation — wind (onshore)
eu_taxonomy_aligned	Y — NACE D35.11 electricity generation from wind power
cbi_eligible	Y — Wind energy criteria under CBI Energy sector
iea_aligned	Y — IEA ETCS onshore wind generation
col_gf_sector	Energía
col_gf_activity	Generación de energía eléctrica a partir de energía eólica
col_gf_aligned	Y
col_ndc2030_aligned	Y — wind capacity expansion is central to NDC renewable energy targets
col_sisclima_relevant	Y
col_ley2169	Y — Art. 7 renewable energy; Art. 3 mitigation
latam_colombia	Y
cth_clp_coverage	N — no CLP cohort companies directly in wind; potential future pipeline
cth_data_coverage	N
schema_version	1.1
last_updated	2026-05-27

Description

Onshore and nearshore wind power generation, including turbine manufacturing, wind farm development, and grid integration. Colombia's Atlantic coast, particularly the Alta Guajira, holds some of the best wind resources in Latin America with average wind speeds exceeding 9 m/s. The sector is nascent but growing rapidly as part of Colombia's just energy transition strategy.

Colombia Context

La Guajira holds an estimated 25 GW of onshore wind potential, making it Colombia's primary wind corridor. Ley 2099 de 2021 provides the same tax incentives for wind as for solar, including VAT exemption on equipment and accelerated depreciation. CONPES 4075 explicitly addresses the social license challenges in La Guajira, mandating prior consultation with Wayúu indigenous communities for wind projects. The Jepírachi wind farm (19.5 MW, operational since 2004) remains the only grid-connected wind farm, but over 2.5 GW of projects have environmental licenses from ANLA. Windmar, Enel Green Power, and AES Colombia are the leading developers.

Transmission constraints via the Colectora line remain the primary bottleneck — UPME's transmission plan targets a 500 kV line connecting Cuestecitas to the national grid by 2027.

EUDR Relevance

This node has no direct EUDR commodity relevance.

CTH Data Coverage

No direct CLP cohort data on wind energy companies. CTH market intelligence tracks La Guajira wind pipeline through UPME registry data. Future REIN Hub deployments in La Guajira may capture community-level wind project impacts.

Green Finance Alignment

Fully TVC-aligned under the energy sector for wind generation. CBI-eligible with established wind energy criteria. EU Taxonomy aligned under NACE D35.11. IDB Invest and IFC have provided project finance for La Guajira wind farms. Green bond potential is high but depends on resolution of transmission and social license barriers.


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Revisión #1
Creado 2026-05-27 05:10:00 UTC por Gideon Blaauw
Actualizado 2026-05-27 05:10:01 UTC por Gideon Blaauw