

CT-EN-001 — Solar PV (Utility & Distributed)

origo_id	CT-EN-001
origo_label	Solar PV (Utility & Distributed)
sector	EN
source	origo
cpi_aligned	Renewable energy generation — solar
eu_taxonomy_aligned	Y — NACE D35.11 electricity generation from solar PV
cbi_eligible	Y — Solar energy criteria under CBI Energy sector
iea_aligned	Y — IEA ETCS solar PV generation and distributed solar
col_gf_sector	Energía
col_gf_activity	Generación de energía eléctrica a partir de energía solar fotovoltaica
col_gf_aligned	Y
col_ndc2030_aligned	Y — core pillar of Colombia NDC 51% GHG reduction by 2030; solar expansion target under Transición Energética
col_sisclima_relevant	Y
col_ley2169	Y — Art. 7 renewable energy mandates; Art. 3 climate mitigation measures
latam_colombia	Y
cth_clp_coverage	Y — 4 CLP cohort companies with solar deployment projects; Sustentia diagnostics cover energy sourcing
cth_data_coverage	Y
schema_version	1.1
last_updated	2026-05-27

Description

Utility-scale and distributed solar photovoltaic generation, including ground-mounted solar farms, rooftop installations, and floating solar. This node covers the full value chain from module manufacturing to grid-connected and off-grid deployment. In LATAM, Colombia and Chile lead utility-scale solar pipeline growth, with Colombia's irradiation levels in La Guajira and Cesar among the highest in South America.

Colombia Context

Colombia's Ley 2099 de 2021 (Ley de Transición Energética) established tax exemptions on solar equipment imports and a 50% income tax deduction for renewable energy investments. CONPES 4075 (Política de Transición Energética Justa) specifically targets La Guajira and Cesar as priority solar corridors, with over 3.5 GW of solar projects in the UPME registry as of 2025. The CREG has issued regulations enabling distributed solar under Resolución 174 de 2021, allowing net metering for installations up to 1 MW. MinMinas targets 12% of installed capacity from non-conventional renewables by 2030, with solar PV as the primary growth vector. Colombia's average solar irradiation of 4.5 kWh/m²/day nationally, and up to 6.0 kWh/m²/day in La Guajira, positions utility-scale solar as cost-competitive with thermal generation.

EUDR Relevance

This node has no direct EUDR commodity relevance.

CTH Data Coverage

CLP cohort includes 4 companies active in distributed and utility-scale solar: installation, EPC, and maintenance services. Sustentia diagnostic platform captures energy sourcing profiles for assessed enterprises, flagging solar adoption readiness. REIN Hub field data from Cesar and Santander documents solar deployment barriers in rural PDET territories.

Green Finance Alignment

Fully aligned with Colombia's Taxonomía Verde de Colombia (TVC) under the energy sector. CBI-eligible under solar energy criteria with third-party verification. EU Taxonomy alignment under NACE D35.11 with Do No Significant Harm (DNSH) requirements for land use and biodiversity. Green bond issuances by Bancolombia and Davivienda have financed solar projects under TVC criteria since 2023.

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