

CT-EN-004 — Energy Storage (Battery & Grid)

origo_id	CT-EN-004
origo_label	Energy Storage (Battery & Grid)
sector	EN
source	origo
cpi_aligned	Energy storage — battery and grid-scale
eu_taxonomy_aligned	Y — NACE C27.20 manufacture of batteries; D35.11 electricity storage
cbi_eligible	Y — Energy storage criteria under CBI, enabling renewable integration
iea_aligned	Y — IEA ETCS energy storage systems
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col_gf_activity	Almacenamiento de energía para integración de fuentes renovables
col_gf_aligned	Partial
col_ndc2030_aligned	Y — enabling technology for NDC renewable targets requiring grid flexibility
col_sisclima_relevant	Y
col_ley2169	Y — Art. 7 as enabling infrastructure for renewable deployment
latam_colombia	Y
cth_clp_coverage	N — no CLP companies in storage; emerging market
cth_data_coverage	N
schema_version	1.1
last_updated	2026-05-27

Description

Battery energy storage systems (BESS), grid-scale storage, and behind-the-meter storage solutions. Encompasses lithium-ion, flow batteries, and emerging chemistries. Storage is critical for integrating variable renewables (solar, wind) into grids and enabling off-grid electrification. In Colombia, storage addresses both grid stability during renewable ramp-up and energy access in Zonas No Interconectadas.

Colombia Context

Colombia's grid operator XM has identified energy storage as essential for managing the transition from a hydro-thermal to a hydro-solar-wind system. CREG issued Resolución 098 de 2022 establishing the regulatory framework for energy storage participation in the wholesale market. The TVC includes storage as an eligible activity under the energy sector, though specific technical screening criteria are still being refined. MinMinas' Plan Energético Nacional 2020-2050 identifies storage as a strategic technology. Pilot projects include Enel's BESS in Magdalena Medio and Celsia's behind-the-meter installations. Off-grid storage paired with solar PV is being deployed by IPSE in ZNI communities of Chocó and Vaupés. Colombia has no domestic lithium production, making battery supply chain a strategic import dependency.

EUDR Relevance

This node has no direct EUDR commodity relevance. However, lithium and cobalt supply chains for batteries have broader environmental due diligence considerations under EU Battery Regulation (separate from EUDR).

CTH Data Coverage

No CLP cohort companies are currently in energy storage. This is an emerging market in Colombia with limited SME participation. Future CLP cohorts may include storage integrators as the market develops. Sustentia diagnostics do not yet include storage-specific assessment modules.

Green Finance Alignment

Partial TVC alignment — storage is recognized but technical screening criteria are evolving. CBI-eligible when demonstrably enabling renewable energy integration. EU Taxonomy aligned under both manufacturing (C27.20) and electricity storage (D35.11) with lifecycle emissions thresholds. GCF and IDB have funded storage pilots in Colombia as part of grid modernisation packages.

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