CT-EN-008 — Energy Efficiency (Industrial)

origo_id	CT-EN-008
origo_label	Energy Efficiency (Industrial)
sector	EN
source	origo
cpi_aligned	Energy efficiency — industry
eu_taxonomy_aligned	Y — multiple NACE codes covering industrial energy efficiency improvements
cbi_eligible	Y — Energy efficiency criteria under CBI with verified energy savings
iea_aligned	Y — IEA ETCS industry energy efficiency
col_gf_sector	Energía
col_gf_activity	Eficiencia energética en procesos industriales y comerciales
col_gf_aligned	Y
col_ndc2030_aligned	Y — industrial energy efficiency is a core NDC mitigation measure with quantified targets
col_sisclima_relevant	Y
col_ley2169	Y — Art. 3 mitigation; Art. 8 energy efficiency mandates
latam_colombia	Y
cth_clp_coverage	Y — 5 CLP companies provide energy efficiency auditing and implementation services
cth_data_coverage	Y
schema_version	1.1
last_updated	2026-05-27

Description

Industrial energy efficiency improvements including process optimisation, waste heat recovery, variable speed drives, high-efficiency motors, thermal insulation, and energy management systems (ISO 50001). Colombia's industrial sector accounts for approximately 30% of national energy consumption, with significant efficiency improvement potential in cement, steel, food processing, and chemicals.

Colombia Context

PROURE (Programa de Uso Racional y Eficiente de Energía) is Colombia's national energy efficiency program, administered by MinMinas with UPME technical support. CONPES 4075 sets industrial energy efficiency targets of 18% improvement in energy intensity by 2030. Ley 2099 Art. 15 establishes energy efficiency obligations for large industrial consumers (>55 GWh/year). The SGIE (Sistema de Gestión Integral de la Energía) framework promotes ISO 50001 adoption in industry. ANDI (Asociación Nacional de Industriales) reports that only 12% of large industrial firms have implemented energy management systems. MinMinas Resolución 40203 de 2020 establishes minimum energy performance standards (MEPS) for industrial motors and transformers. Tax incentives under Ley 2099 include IVA exclusion for energy efficiency equipment and 25% income tax deduction for efficiency investments.

EUDR Relevance

This node has no direct EUDR commodity relevance. However, energy efficiency in agro-industrial processing (palm oil mills, coffee processing) indirectly supports EUDR supply chain sustainability metrics.

CTH Data Coverage

Five CLP cohort companies provide energy efficiency services: auditing, LED lighting retrofits, industrial process optimisation, and energy management consulting. Sustenttia diagnostics include energy consumption per unit of production as a core environmental indicator. REIN Hub data captures energy efficiency adoption in agricultural processing facilities across PDET territories.

Green Finance Alignment

Fully TVC-aligned for industrial energy efficiency. CBI-eligible with verified energy savings of at least 30% improvement. EU Taxonomy aligned across multiple NACE codes with substantial contribution thresholds. Bancóldex offers green credit lines specifically for energy efficiency investments. IFC has provided $200 million in energy efficiency credit lines through Colombian financial intermediaries.


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