Renewable Energy

Source Metadata

Field	Value
source	cpi
source_version	GLCF 2025
source_id	CPI-ES-001
sector	Energy Systems
subsector	Renewable Energy
mitigation	Y
adaptation	N
last_checked	2026-05-26

CPI Definition & Scope

Under CPI's Global Landscape of Climate Finance (GLCF) framework, Renewable Energy encompasses all capital flows directed toward the deployment, expansion, and scaling of power generation technologies that displace fossil fuel combustion. This is the single largest category of tracked climate finance, representing the majority of global mitigation investment. CPI tracks finance flowing to solar photovoltaic, concentrated solar power, onshore and offshore wind, small and large hydropower, geothermal, and biomass/biogas power generation projects.

Subsectors & Examples

- **Solar PV** — utility-scale, distributed rooftop, floating solar
- **Wind** — onshore wind farms, offshore fixed and floating turbines
- **Hydropower** — large-scale dams, run-of-river, small/micro hydro
- **Geothermal** — conventional hydrothermal, enhanced geothermal systems
- **Biomass & Biogas** — dedicated biomass power, waste-to-biogas, co-firing
- **Concentrated Solar Power (CSP)** — parabolic trough, solar tower

Mitigation & Adaptation Classification

Renewable energy is classified as **mitigation** in CPI's framework. It directly reduces greenhouse gas emissions by displacing fossil fuel generation. While some renewable projects (e.g., off-grid solar for climate-vulnerable communities) can have co-benefits for adaptation and resilience, CPI categorizes the primary finance flow as mitigation.

LATAM Relevance

Latin America has enormous renewable energy potential. Colombia is rapidly expanding wind and solar capacity, particularly in La Guajira for offshore and onshore wind. Peru has growing solar deployment in the southern desert regions and hydropower in the Andes. Costa Rica already generates over 98% of its electricity from renewables (primarily hydro, geothermal, and wind), serving as a regional benchmark. CPI data shows the region attracted significant renewable energy investment growth between 2018 and 2023.

Cleantech Taxonomy Crosswalk

Maps directly to Cleantech Taxonomy sector **ES** (Energy Systems), specifically nodes for solar generation, wind generation, hydropower, geothermal, and bioenergy. Cross-references may exist with **AF** (AFOLU) for biomass feedstock sourcing.

Revisión #2
Creado 2026-05-27 03:38:29 UTC por Gideon Blaauw
Actualizado 2026-05-27 03:49:16 UTC por Gideon Blaauw