

# Energy Storage

## Source Metadata

| Field          | Value          |
|----------------|----------------|
| source         | cpi            |
| source_version | GLCF 2025      |
| source_id      | CPI-ES-002     |
| sector         | Energy Systems |
| subsector      | Energy Storage |
| mitigation     | Y              |
| adaptation     | N              |
| last_checked   | 2026-05-26     |

## CPI Definition & Scope

Energy Storage in CPI's GLCF framework covers finance directed at technologies that store electricity or thermal energy for later dispatch, enabling greater integration of variable renewable energy sources. The 2025 edition expanded coverage to include energy storage as a distinct tracked category, recognizing its critical role in the energy transition. CPI tracks investment across battery storage (grid-scale and behind-the-meter), pumped hydro storage, compressed air, and emerging long-duration storage technologies.

## Subsectors & Examples

- **Battery Energy Storage Systems (BESS)** — lithium-ion grid-scale, behind-the-meter commercial/residential
- **Pumped Hydro Storage** — conventional and closed-loop systems
- **Thermal Energy Storage** — molten salt, ice storage, phase-change materials
- **Mechanical Storage** — compressed air, flywheel, gravity-based
- **Long-Duration Storage** — iron-air batteries, flow batteries, liquid air

## Mitigation & Adaptation Classification

Energy storage is classified as **mitigation** in CPI's framework. By enabling higher penetration of variable renewables and reducing curtailment, storage directly supports decarbonization of the power sector. It also supports grid resilience, but the primary classification remains mitigation.

# LATAM Relevance

---

Energy storage deployment in Latin America is accelerating as countries integrate more solar and wind capacity. Colombia's energy transition roadmap includes storage auctions to complement La Guajira wind projects. Chile leads the region in lithium-ion deployment and is home to significant lithium reserves. Peru's grid intermittency challenges from growing solar create opportunities for storage investment. Costa Rica, with its near-100% renewable grid, explores storage for managing seasonal hydro variability.

# Cleantech Taxonomy Crosswalk

---

Maps to Cleantech Taxonomy sector **ES** (Energy Systems) under storage-specific nodes. Cross-references with **IN** (Industry) for battery manufacturing and **XS** (Cross-Sectoral) for grid flexibility services.

---

Revisión #2  
Creado 2026-05-27 03:38:30 UTC por Gideon Blaauw  
Actualizado 2026-05-27 03:49:21 UTC por Gideon Blaauw