CT-BU-004 — Urban Resilience & Climate Adaptation Infrastructure

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Description

Infrastructure designed to increase urban resilience to climate impacts including flooding, heat stress, sea-level rise, and extreme weather events. Covers permeable pavements, urban drainage systems, climate-resilient public infrastructure, cooling corridors, and integrated urban planning for adaptation.

Colombia Context

Colombian cities face escalating climate adaptation challenges. Cali and Barranquilla experience severe urban heat island effects, with surface temperatures in dense urban cores exceeding surrounding areas by 4-6°C.

Bogotá's stormwater infrastructure is overwhelmed during La Niña events, causing recurrent flooding in southern barrios. Colombia's NDC 2030 adaptation component prioritizes urban resilience, and SISCLIMA (Sistema Nacional de Cambio Climático) coordinates adaptation planning across municipalities. UNGRD (Unidad Nacional para la Gestión del Riesgo de Desastres) manages disaster risk reduction infrastructure. Ley 2169 (Acción Climática) mandates municipal climate adaptation plans.

EUDR Relevance

This node has no direct EUDR commodity relevance.

CTH Data Coverage

Not directly covered by CLP or Sustenttia. Urban resilience infrastructure represents a potential future vertical for CTH, particularly where nature-based solutions (bioswales, constructed wetlands) overlap with water management technologies.

Green Finance Alignment

TVC covers climate-resilient urban infrastructure under the Construcción sector. CBI Climate Resilience criteria apply to infrastructure designed for adaptation. EU Taxonomy Activity 7.7 (Acquisition and ownership of buildings — climate adaptation) and cross-cutting adaptation criteria under Objective 2 are relevant. Adaptation-focused green bonds and resilience bonds are an emerging instrument class for this node.


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