

Quantifying Tbilisi's Urban Forest Ecosystem Services - And the Policy Gap That Undercuts Them

PES & Nature-Based Solutions · Good practice · Georgia

Quality score: 33/100

Evidence strength: Cautionary / limited

Summary

Peer-reviewed modelling (Forests, 2023) found Tbilisi's urban forests remove 1,227 t/yr of air pollutants and sequester 43.72k t/yr of carbon citywide - yet a 2025 policy review shows the city's Land Use Plan is routinely overridden, leaving just 1.3 m² of green space per capita.

Key dimensions

Dimension	Score
Carbon — sequestration / storage, evidenced	2/3
Biodiversity — conservation / improvement, evidenced	1/3
Water & soil — retention, infiltration, erosion control	1/3
Fire resilience — risk reduction, evidenced	0/3
Governance, certification & transferability	1/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-07

[Ivane Javakhishvili Tbilisi State University](#) — accessed 2026-09-07

[Forests 14\(1\):121, 2023 \(DOI\)](#) — accessed 2026-09-07

[Heinrich Boll Foundation Tbilisi, Oct 2025](#) — accessed 2026-09-07

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