Namba Parks Rooftop Garden — An 11,500 m² Terraced Green Roof in Central Osaka With Measured Cooling and Two Expert Wildlife Surveys (Japan)

PES & Nature-Based Solutions · Good practice · Japan

Quality score: 27/100

Evidence strength: Cautionary / limited

Summary

Parks Garden spans 11,500 m² of terraces (5,300 m² green) atop Osaka's Namba Parks mall. Builder Obayashi measured green surfaces ~17°C cooler than nearby asphalt at peak (2003); an FY2022–23 survey found 16 bird species vs 5 in nearby street trees.

Key dimensions

Dimension	Score
Carbon — sequestration / storage, evidenced	0/3
Biodiversity — conservation / improvement, evidenced	2/3
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 2026-11-20

Nankai Electric Railway (Nankai Group), with Obayashi Corporation — accessed 2026-11-20

Nankai Group — Parks Garden biodiversity feature (Integrated Report, 2024) — accessed 2026-11-20

Japan for Sustainability — Obayashi rooftop-garden cooling measurements (2003) — accessed 2026-11-20

Nakabayashi et al. (2013), J. Japanese Institute of Landscape Architecture 76(5):511–516 — accessed 2026-11-20

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