Pétrusse Renaturation — Luxembourg City Frees an Urban River from Its Concrete Bed, With Flood and Biodiversity Gains Still Unmonitored

PES & Nature-Based Solutions · Good practice · Luxembourg

Quality score: 27/100

Evidence strength: Cautionary / limited

Summary

Luxembourg City is removing the Pétrusse from its concrete channel in a UNESCO-listed valley. Phase 1 (budget €25.9m) finished end-2024, ~1.5 years late; phase 2 (€15.0m) runs to 2027, part-funded by a €9m EIB NCFF loan. No ecological monitoring is published yet.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-11-16

Ville de Luxembourg — accessed 2026-11-16

Chronicle.lu — Phase 2 to cost €15m (Feb 2025) — accessed 2026-11-16

EIB — €9m NCFF loan for Alzette & Pétrusse renaturation (2023) — accessed 2026-11-16

Paperjam — New works phase in the Pétrusse valley — accessed 2026-11-16

Paperjam — €25.9m phase 1 budget approved — accessed 2026-11-16

Water Management Administration — Pétrusse fact sheet (FR) — accessed 2026-11-16

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