Shafdan Dan Region Reclamation — Soil-Aquifer Treatment for Negev Irrigation

PES & Nature-Based Solutions · Good practice · Israel

Quality score: 40/100

Evidence strength: Moderate

Summary

Treated wastewater from 2.5 million Israelis is filtered through sand-basin soil-aquifer treatment for six months, then pumped 100 km south to irrigate over 60% of Negev agriculture — underpinning Israel's ~85-90% national wastewater-reuse rate.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-08-21

Mekorot – Israel National Water Company — accessed 2026-08-21

Mekorot – Shafdan Wastewater Treatment Plant — accessed 2026-08-21

Northwestern University Center for Water Research – Shafdan visit — accessed 2026-08-21

Global Water Intel – Shafdan expansion project — accessed 2026-08-21

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