

Off-Grid Solar MRV Snapshot

Anonymised case study — 1.8 MW solar mini-grid serving 2,400 households + 180 SMEs, Khulna division, Bangladesh.

Report ref: **TC-SR-BD-SOL-003 / 2025** · Anonymised beta-user data · Indicative only

Project summary

Annual generation	Avoided emissions	Indicative VCUs / yr
2,640 MWh/yr	1,820 tCO2e/yr	1,700–1,820

Baseline & methodology

Baseline is the displaced grid + diesel mix (Bangladesh combined-margin grid emission factor 0.6903 tCO2/MWh, CDM-approved value), plus modelled diesel genset displacement at the SME tier. Method reference: **Verra VM0044 / VMR0009** (small-scale renewable) and **Gold Standard TPDDTEC** for the SME tier. Independent VVB engagement targeted Q3 2025.

MRV evidence pack

Scope	Source	Activity	tCO2e / yr	% of total
—	Generation meter logs (15-min)	SCADA export, 12 months	—	—
—	Inverter datasheets	Serial-matched	—	—
—	Household connection registry	2,412 active accounts	—	—
—	Diesel displacement survey	180 SMEs, ground-truthed	—	—
—	Satellite verification	Sentinel-2, monthly NDVI/PV	—	—

Indicative credit economics

At an issuance band of **1,700–1,820 VCUs/yr** and a spot range of US\$8–US\$14 per VCU for high-integrity small-scale renewables, the project supports an indicative **US\$13,600–US\$25,500 / yr** in carbon revenue, alongside its primary tariff-and-connection revenue stream. Credit issuance is contingent on registry validation and verification.