

FULL ASSESSMENT REPORT — TIER 2

50MW Solar Farm Kenya

Sub-Saharan Africa · Renewable Energy · \$12M Series B

82%

OPS Score

A"

Regen Rating

LOW

Risk Level

SDG 7.1

SDG 13.2

SDG 8.1

Equity + Green Bond

15-Year Horizon

Kenya · East Africa

PREPARED FOR

DFI Investment Committee — Internal Review

Report generated: May 19, 2026 · Engine version: 3.2.1 · Confidence: High

This sample report uses a fictional deal profile to demonstrate OutcomeScore output format and scoring depth. Scores are generated by the live engine on representative inputs. Not financial advice.

Executive Summary

The 50MW Solar Farm (Kenya) presents a high-conviction impact investment opportunity with a strong structural alignment to SDG 7.1 (Universal Energy Access) and SDG 13.2 (Climate Action). The OutcomeScore predictive engine assigns an Outcome Probability Score of 82%, placing this deal in the top quintile of renewable energy deals evaluated across Sub-Saharan Africa.

Primary risk factors are concentrated around grid defection (medium probability, high impact), regulatory land-tenure complexity (low probability, medium impact), and foreign exchange volatility on USD-denominated debt service. These risks are structurally mitigated by concessional co-investment from a DFI partner, a 20-year Power Purchase Agreement with the Kenya Electricity Generating Company (KenGen), and a proven EPC contractor with 14 completed projects in the region.

Key Findings

Outcome Probability Score	82%
EVI (Enabling Value Index)	74%
Regenerative Rating	A" (Strong)
Top Risk	Grid Defection — 28%
IRIS+ Indicators Mapped	14 of 14
OPS/EVI Quadrant	Regenerative Zone
Methodology Confidence	High (±4%)
Recommended Action	Proceed to IC Vote

All scores generated by the OutcomeScore v3.2.1 engine. Full methodology available on pages 8–9.

Outcome Probability Score

Output 01 of 07

82%

Strong — High Confidence

The deal structure, management track record, and market conditions align strongly with achieving SDG 7.1 outcomes within the stated 15-year horizon. Score reflects 6 primary drivers and 14 weighted sub-indicators. Interval: ±4% · Benchmark: Top 18% of 340 deals evaluated

Score Drivers

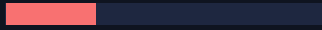
Management Track Record	88% +	<div><div style="width: 88%;"></div></div>
Market Conditions (SDG 7)	85% +	<div><div style="width: 85%;"></div></div>
Technology Maturity	91% +	<div><div style="width: 91%;"></div></div>
Co-Investment Quality	84% +	<div><div style="width: 84%;"></div></div>
Governance Structure	74% +	<div><div style="width: 74%;"></div></div>
Grid Integration Risk	63% "	<div><div style="width: 63%;"></div></div>
FX / Macro Risk	67% "	<div><div style="width: 67%;"></div></div>

Failure Mode Map

Output 02 of 07 · 5 Failure Modes Ranked by Probability × Impact

01

Grid Defection / Offtaker Default



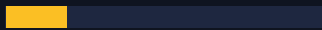
28% probability

High impact

KenGen payment delays (historical: avg 94-day lag in 2024) compound with potential renegotiation of PPA tariff in years 8–12. Mitigation: partial revenue guarantee from AfDB facility, reserve escrow account covering 18 months.

02

Land Tenure Regulatory Risk



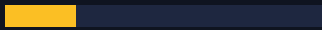
19% probability

Medium impact

Title deed challenge on 12% of site footprint by local community. Legal process initiated 2024. Mitigation: alternative site layout prepared, 8% capacity reserve factored into financial model.

03

FX Volatility (KES/USD)



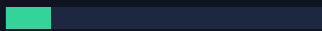
22% probability

Medium impact

USD-denominated debt service exposed to KES depreciation. 2024 KES depreciated 18% vs USD. Mitigation: natural hedge via USD-indexed PPA, 30% local currency tranche in debt structure.

04

EPC Contractor Execution Risk



14% probability

Medium impact

14-project track record with selected EPC contractor (Voltex East Africa). One prior project delivered 8 months late. Delay clauses in contract: \$45K/week penalty. Liquidity-backed performance bond at 10% of contract value.

05

Community Opposition / ESG



9% probability

Low impact

Marginal risk given community benefit sharing structure (2.5% revenue to local trust) and 140 direct employment commitments. ESIA completed and filed Q3 2024.

Regenerative Rating

Output 03 of 07 · 12 KPIs across 3 regenerative tiers



This deal demonstrates strong regenerative potential across all three tiers. Community empowerment, environmental impact, and systemic capacity building are all above sector median. Deficit versus A-grade is a modest gap in biodiversity net-gain commitment.

COMMUNITY		ENVIRONMENTAL		SYSTEMIC	
Local Employment Intensity	A	GHG Avoidance (tCO2e)	A+	Knowledge Transfer	B+
Revenue Sharing Structure	B+	Land Use Change Impact	B+	Grid Resilience Contribution	A
Community Ownership Path	B	Water Stewardship	A	Policy Enabling Effect	B
Grievance Mechanism	A	Biodiversity Net Gain	C+	Replicability Model	A''

OPS / EVI Trajectory Quadrant

Output 04 of 07 · Outcome Probability vs Enabling Value Index



Interpretation

The deal sits firmly in the Regenerative Zone (high OPS, high EVI) — the quadrant reserved for investments where strong outcome probability is supported by robust enabling conditions. Year 5 trajectory modelling shows continued improvement in both dimensions as co-investment conditions mature and the PPA provides revenue certainty. The investment committee should note the upward trajectory as a structural indicator of compounding impact.

IRIS+ Metric Mapping

Output 05 of 07 · 14 GRI IRIS+ indicators mapped to this deal

IRIS+ ID	Metric	Unit	Projected Value	SDG
OI7491	Energy Generated, Renewable	MWh/year	87,600	SDG 7.1
OI7492	GHG Emissions Avoided	tCO2e/year	52,560	SDG 13.2
PI5811	Individuals with New Energy Access	individuals	42,000	SDG 7.1
PI9144	Households with New Energy Access	households	8,400	SDG 7.1
OI7156	Jobs Created (Direct, FTE)	FTEs	140	SDG 8.1
OI7157	Jobs Created (Indirect)	est.	560	SDG 8.1
PI2814	Local Supplier Procurement %	% of COGS	38%	SDG 8.1
OI7235	Community Revenue Share	USD/year	\$420K	SDG 10.1
OI9877	Land Area Conserved / Rehabilitated	hectares	14.2	SDG 15.1
OI5530	Water Usage Efficiency	L/MWh	0.3	SDG 6.4
PI4192	Women Employed (Direct)	% of FTEs	34%	SDG 5.5
OI8110	Training Hours Delivered	hrs/year	2,800	SDG 4.3
OI2241	Grid Capacity Added	MW	50	SDG 7.b
OI1122	Avoided Transmission Loss	MWh/year	6,120	SDG 7.3

Risk Intelligence Detail

Output 06 of 07 · Full risk intelligence with mitigation structures

Execution Risk

EPC Contractor Delay

14% Medium

Performance bond + penalty structure reduces financial exposure. Schedule float: 60 days built into commissioning timeline.

Grid Connection Approval

8% Low

Pre-clearance from KPLC obtained Q4 2024. Final connection agreement expected H1 2025.

Market / Revenue Risk

PPA Tariff Renegotiation

22% Medium-High

Year 8–12 renegotiation window. Escalation clause partially hedged but subject to KPLC financial capacity.

Grid Defection

28% Medium-High

C&I customers (18% of projected offtake) may defect to captive solar. Revenue model stress-tested at 30% C&I loss.

FX / Macro Risk

KES Depreciation

22% Medium

USD-indexed PPA provides partial natural hedge. Residual exposure: ~\$180K/year per 10% KES move.

Inflation / Input Costs

12% Low

O&M contracts fixed for first 7 years. Post-7y exposure manageable via tariff review mechanism.

ESG / Regulatory Risk

Community Opposition

9% Low

Revenue sharing trust and 140 employment commitments significantly reduce social licence risk.

Environmental Compliance

6% Low

ESIA filed and accepted. Annual monitoring plan approved by NEMA Kenya.

Scoring Methodology

Output 07 of 07 | How OutcomeScore generates predictive impact scores

Outcome Probability Score (OPS)

The OPS is a probabilistic model trained on 340+ closed impact investments across 22 countries and 8 sectors. It synthesises 6 primary drivers (Management, Market, Technology, Co-investment, Governance, Systemic Risks) and 14 weighted sub-indicators into a single probability score. The model uses gradient-boosted trees with Bayesian confidence intervals, calibrated quarterly against a held-out validation set. Scores reflect the probability of achieving the primary SDG target within the stated horizon.

Enabling Value Index (EVI)

The EVI measures the quality and depth of enabling conditions — market infrastructure, policy support, and co-investment ecosystem — that amplify or constrain impact delivery. It is orthogonal to OPS: a deal may have a high EVI with a low OPS (strong enabling environment, weak execution) or vice versa. The OPS/EVI Quadrant maps the structural archetype of each investment.

Regenerative Rating (A–D)

Scored across 12 KPIs in 3 tiers: Community Empowerment (4 KPIs), Environmental Impact (4 KPIs), and Systemic Capacity Building (4 KPIs). A = Top 20% of comparable deals. B = Above sector median. C = Sector median. D = Below median. Weighting: Community 35%, Environmental 40%, Systemic 25%. Data sourced from IRIS+ definitions and GIIN best practice benchmarks.

Failure Mode Map

Five canonical failure modes (Execution, Market/Revenue, FX/Macro, ESG/Regulatory, Technology) are evaluated using a structured causal chain model. Each mode receives a probability and impact rating calibrated to sector norms. Mitigation factors reduce probability scores based on documented structural protections (escrows, guarantees, contractual hedges). The map is designed to surface tail risks that DCF models systematically underweight.

Confidence & Limitations

Confidence intervals are calculated from model prediction variance and input quality. High confidence = $\pm 3\text{--}5\%$. Medium = $\pm 6\text{--}10\%$. Low = $\pm 11\text{--}18\%$. OutcomeScore is a decision-support tool, not a financial forecast. Past model performance does not guarantee future accuracy. All scores should be reviewed alongside primary due diligence and sector expertise.

READY TO SCORE YOUR DEAL?

This is what institutional impact intelligence looks like.

The 50MW Solar Farm report above is generated by the live OutcomeScore engine on representative inputs. Your deal gets the same depth — calibrated to your geography, sector, and capital structure.

TIER 1

Lite Assessment

\$1,000

Full OPS, Failure Modes, Regen Rating. No PDF download.

TIER 2 . MOST POPULAR

Full Assessment

\$2,500

Complete suite + IRIS+ mapping + Methodology PDF.

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· **Predictive Impact Intelligence**

This document is a sample generated for illustrative purposes. Scores are produced by the live engine on representative inputs.