ENERGY SECTOR

2026

Yiben 55 MW Storage Hydropower Project

Upper Seli River, Northern Sierra Leone

GREENFIELD STORAGE HYDRO | EMBANKMENT DAM DEVELOPMENT OPPORTUNITY

Yiben is a planned 55 MW storage hydropower development on the Upper Seli River. Public project studies identify a 55 MW powerhouse with two Francis units and a large seasonal storage reservoir. This investment concept presents Yiben as a standalone embankment dam scheme. The revised cost basis covers the Yiben dam and associated works only, excluding Bumbuna works and any regulatory dam. It requires refreshed feasibility, geotechnical, hydrological, environmental and bankability validation before procurement.



YIBEN RESERVOIR FOOTPRINT

Project material graphic. Final reservoir boundary and dam alignment remain subject to updated studies.



INVESTMENT OPPORTUNITY

Transaction: standalone greenfield storage hydropower IPP or PPP, subject to confirmation of existing project rights and transaction structure.

Investor requirement: strategic co developer, equity, DFI and long term debt, climate finance, experienced EPC contractor and operator.

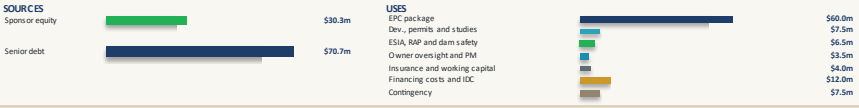
Project scope: Yiben embankment dam, reservoir, intake and waterways, 55 MW powerhouse, access infrastructure, switchyard and grid connection. Bumbuna and regulatory dam works excluded.

Government interface: investment facilitation, approvals coordination, fiscal and PPP review, and stakeholder engagement through the relevant institutions.

55 MW	US$101m	US$60m	US$30.3m	US$70.7m
Installed capacity	Indicative project cost	EPC package	Equity 30%	Debt 70%

FINANCIAL SNAPSHOT

Revised standalone Yiben cost case prepared for the embankment dam concept. Figures are indicative, exclude Bumbuna and regulatory dam works, and require validation through updated feasibility, EPC pricing, dam safety review and lender due diligence.



DESIGN BASIS

Earlier Sierra Leone power sector planning assessed an embankment or rockfill option at Yiben. This flyer adopts a standalone embankment concept and a US$101m indicative cost envelope. Final dam type, reservoir footprint, hydrology, safeguards and cost must be confirmed through updated feasibility and independent dam safety review.

PROJECT READINESS

- Historic feasibility, ESIA, biodiversity and geotechnical work exist.
- Embankment redesign requires updated studies, dam safety review and resettlement planning.
- Project remains pre construction and requires a refreshed bankability package.

BANKABILITY DRIVERS

- Seasonal storage can support dispatchable renewable generation.
- Proven Francis turbine technology and 55 MW scale.
- DFI and climate finance potential, subject to safeguards and credit support.

USE OF INVESTMENT

- Embankment dam, reservoir, waterways and powerhouse.
- Access roads, switchyard and grid connection.
- E&S measures, owner oversight, financing costs and contingency.

PATH TO FINANCIAL CLOSE

1. Confirm rights and transaction
2. Re optimise embankment design
3. Independent hydrology and energy yield
4. Update ESIA, RAP and dam safety
5. Grid, PPA and payment security
6. EPC price, financing and approvals

INVESTMENT SOUGHT

Strategic developer, DFIs and lenders to finance a US$101m standalone Yiben embankment dam package.