



ETHIOPIAN ELECTRIC POWER

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Horn of Africa Initiative Regional Energy Trade (HoAI) 2^{ed} Workshop

April. 2022

Addis Ababa, Ethiopia



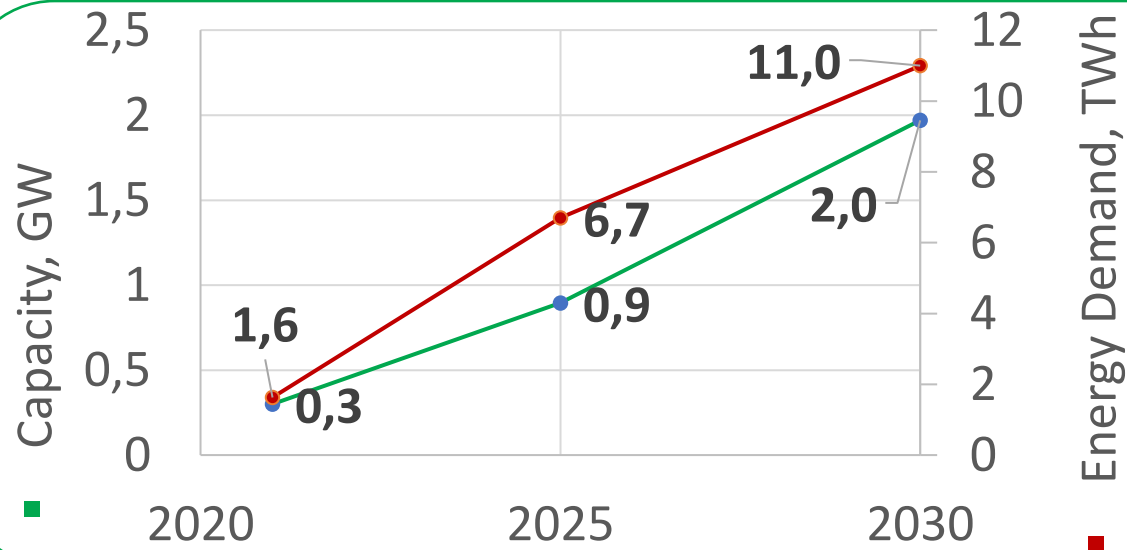
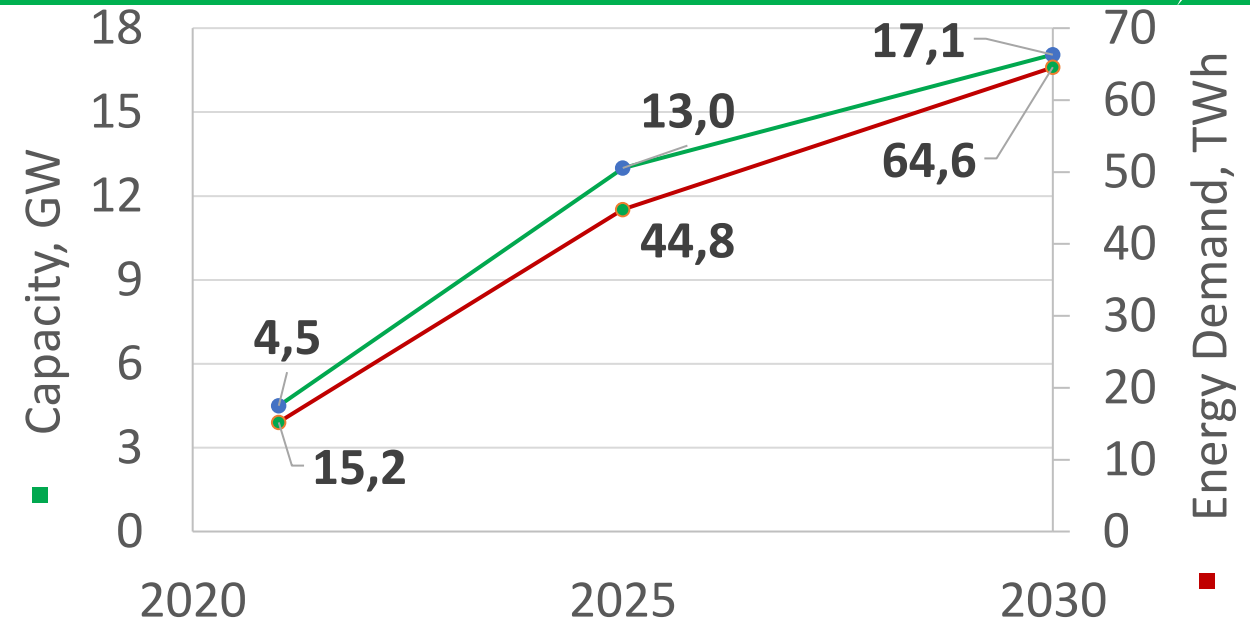
- Introduction, EEP System Development Plan(SDP)
- EEP Priority Actions - HoAI RISES Project



EEP Development Plan (2021-2030)



- **Ten Year (2021-2030) Development Plan**
(Key consideration: National Electrification Plan, Energy mix, Regional Energy Export Plan).



- **Regional Energy Export Plan**
 - (2 existing, 4 Planned in total 6 direct interconnection)
 - The Share of energy export 10 -12% of the total demand of EEP.



Status of HoAI Priority Actions As aligned with EEP



Pillars	Priority Actions	Progress	Way Forward
Financial Sust. (Commercial Act.)	Improve the Financial Performance and credibility of EEP.	EEP Debt restructuring, 1 st round tariff revision (2019-2022), improve energy sales collection from industries, and EEU.	2 nd round domestic tariff revision, revenue maximization cost minimization initiatives.
	Settling of pending payment for the supplied power to Sudan.	EEP continued supplying power to Sudan	High level support needed
	Operationalization of Ethiopia-Kenya power interconnection	Commercial issues are under discussion	Sign amended PPA, and initiation of energy wheeling discussions
	Actively participate on EAPP regional day ahead market development through Market committee.	Market design report review and endorsed the recommendations, Training market operators (02 EEP staff nominated)	Self assessment for the day ahead market participation Promote & support EAPP's day ahead regional market design
	Increase energy market within EAPP region and beyond.	Djibouti & Sudan 2 nd line, Somalia (North, South),-> Committed South Sudan, Eritrea-> Planed	work with bilateral & multilateral dev. Partners (WB, AfDB etc.)



Pillars	Priority Actions	Progress	Way Forward
Operational Excellence (Operation Act.)	Comply with the EAPP IC and operating guidelines	UFLS, Voltage control, Primary Response and governors, Protection requirements & coordination, System Operator Training, build state-of-the art National and Backup Load Dispatch center (LDC), Smart meters.	Implementation of proposed initiatives, testing & validation of power system models,
	Ensure the capability of Operating & managing Ethiopia-Kenya ± 500 kV HVDC Interconnection	Develop Operational procedure guideline, Operator Training and Energization of the line.	Complete development of operation procedure & guideline, energization of the line
	Optimization of existing Ethiopia – Sudan 230 kV AC Interconnection Line	Maximize the Utilization of the transfer capacity of the interconnection	Coordinate with Sudan side to resolve the protection and voltage control issues
	Improve the overall reliability and Security of the grid.	Strengthen Network analysis/operation team (expertise and tools). Continues assessment, monitoring & in-depth investigation of grid Incident for improvement measures.	Improve coordination with regional TSOs, EAPP Operation committee, etc.

EEP Priority Planning

Pillars	Priority Actions	Progress	Way Forward
Regional Integration (Planning Act.)	Ethiopia – Sudan 2 nd Interconnection	Feasibility study is underway and procurement of consultant for ESIA study.	Completion of the studies, project appraisal, and PPA discussion.
	Ethiopia – Somalia (North & South) Interconnection	RFP stage for the Procurement of Consultant to undertake Feasibility and ESIA studies.	Completion of the studies, project appraisal, and PPA discussion.
	Ethiopia – Djibouti 2 nd Interconnection	RFP stage for the procurement of construction management consultant.	Procurement of project contractor, and PPA discussion
	Ethiopia - South Sudan Interconnection	ongoing discussion at the minstrel level (MoU Expected to be signed in April 2022).	Initiation of feasibility and ESIA studies, PPA discussion, and arranging the Project finance
	Ethiopia – Eritrea Interconnection	Establish initial discussion with Eritrea energy sector.	Initiation of feasibility and ESIA studies, PPA discussion, and arranging Project finance



Thank You!