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இலங்கைப் பொதுப் பயன்பாடுகள் ஆணைக்குழு
PUBLIC UTILITIES COMMISSION OF SRI LANKA



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PUC/LIC/2024/CEB/38

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13th Nov 2024

General Manager
Ceylon Electricity Board,
Sir Chittampalam A. Gardiner Mawatha,
Colombo 02.

Re: Submission of the Draft Long Term Generation Expansion Plan 2025 - 2044

This refers to the letter (Ref: GP/CE/EXPAN-2023) dated 04th September 2024 on the above subject.

The Commission require following information/clarifications in order to approve the Long Term Generation Expansion Plan 2025 - 2044.

1. Reason for using capital and O&M costs for candidate thermal and ORE technologies different to the input data submitted to the Commission with the letter (Ref: GP/CE/EXPAN-2023) dated 17th November 2023. Provide the economic indicators/factors considered if these costs have been escalated.
2. Reason for using higher capital cost for Battery Energy Storage Systems (BESS) compared to the cost applied in the previous plan (LTGEP 2023-2042) despite the global downward trend in BESS prices.
3. Reason for the delay in commission the first Pumped Storage Power Plant from 2029 to 2034, as compared to the plant schedule of the LTGEP 2023-2042.
4. Reason for exclusion of the Wewathenna Pumped Storage (2 x 350MW) from the base case which was included in the plant schedule of the LTGEP 2023-2042.
5. Reason for the significant increase in the capital costs of the Wewathenna and Maha Oya Pumped Storage Plants, with increments of 167% and 33% respectively compared to the cost applied in the LTGEP 2023-2042.
6. Reason for the delay in implementing the HVDC interconnection from 2034 to 2039, as compared to the schedule in the HVDC Interconnection scenario in the LTGEP 2023-2042.
7. Has the capital cost for the LNG infrastructure been included in the capital cost of the natural gas candidate technologies?
8. What is the basis for the net generation forecast of 21,444 GWh in 2025 and the forecasted 5-year average net generation growth rate of 5.3%, as per the time trend demand forecast (Table A3.3), given the negative average net generation growth rates of -3.2% and -0.4% for the last 3 and 5 years, respectively (Table 3.1)?
9. What are the identified six candidate sites for the nuclear power plant?
10. Is the implementation of HVDC interconnection between India - Sri Lanka and Pumped Storage Power Plant a mandatory prerequisite before the integration of the nuclear power plant?
11. Reason for not considering the integrated storage solution coupled with large scale fully facilitated solar PV parks (Grid Connected Fully Facilitated Solar with BESS), which was included in the plant schedule of the LTGEP 2023-2042.

12. What Demand Side Management (DSM) measures are recommended for implementation by the distribution licensees as per the DSM implementation plan?
13. Reason for limiting the extension of the retirement year for Sapugaskanda A, Sapugaskanda B, and the Barge power plants to only 5 years after their refurbishments
14. Does the estimated local gas price (8.5 to 10 USD per MMBtu) by PDASL include the handling charges? If not, what is the estimated handling fee per MMBtu?
15. What are the estimated plant factors and the specific costs of the candidate ORE technologies?
16. Why wasn't a cost variation trajectory not used for ORE technologies over the planning period?

The above information/clarifications shall be sent before 22nd November 2024.



Kanchana Siriwardena
Deputy Director General - Industry Services