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இலங்கைப் பொதுப் பயன்பாடுகள் ஆணைக்குழு
PUBLIC UTILITIES COMMISSION OF SRI LANKA



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Our No. }

PUC/LIC/2023/CEB/22

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Date }

13th Dec 2023

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

Re: Input Data for Long Term Generation Expansion Plan (LTGEP) 2025-2044

This refers to your letter (Ref: GP/CE/EXPAN-2023) dated 17th November 2023 on the above subject.

You may proceed with the planning process subject to verification, correction and providing clarification on the following areas. The clarifications shall be sent on or before 22nd December 2023.

1. Significant increase (36%) in the capital cost of 300MW and 400MW NG Combined Cycle Candidates compared to the previous planning study
2. Coal plants are being considered as candidate plants despite the government policy direction to cease building of new coal-fired power plants
3. Whether the proposed plant capacity, respective cost parameters of Nuclear Plant Candidate and Nuclear fuel price were verified by the Sri Lanka Atomic Energy Board?
4. Is the construction period of 5 years for the Nuclear Plant Candidate realistic?
5. The basis for the allocated weights in deriving fuel price forecasts
6. The purpose for which Hydrogen fuel price is used
7. Reasons for the increase in the Fixed O&M Cost of most of the ORE Candidate technologies compared to the previous planning study
8. Significant increase (22.8%) in the capital cost of Offshore wind candidate compared to the previous planning study
9. Are the construction periods allocated for Offshore Wind and Mini hydro technologies Candidate realistic?
10. Reason for considering firm capacity contribution to be below 100% (60% - 80%) from battery energy and pumped hydro storage technologies during the dry and wet seasons.
11. The forecasted demand, net loss, net generation and peak demand for 2024, and assumed demand for 2023 in the calculations.
12. Basis for considering a sudden drop of net loss in 2025 compared to the actual present system loss and the basis for assuming a day time peak demand from 2025 onwards
13. Does the natural gas price include the handling charges related to the cost of regasification and transportation of fuel through pipeline network? What is the estimated handling charge (per MMBtu) used in the planning study?

14. Have the inputs been taken from the distribution licensees for the demand projection (at least for the demand projection of next 4-5 years)?
15. Has the demand for the Electric Vehicles as per the draft Policy for EV Transition for Sri Lanka been considered for the demand projection?
16. Has the roof top solar energy contribution of LECO consumers been included in the net generation projection?
17. It is recommended to validate the world bank fuel price forecast by reputed alternative forecasts and use only forecasted values to derive the fuel prices, as forecasts are anyway derived incorporating the past fuel prices.



Kanchana Siriwardena
Deputy Director General - Industry Services