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இலங்கைப் பொதுப் பயன்பாடுகள் ஆணைக்குழு
PUBLIC UTILITIES COMMISSION OF SRI LANKA



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10th Dec 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.

Further to information/clarifications provided by the letter (Ref: GP/CE/EXPAN-2023) dated 21st November 2024, the Commission requires following additional information/clarifications in order to approve the Long Term Generation Expansion Plan 2025 - 2044.

1. Is the capital cost of the LNG Floating Storage Regasification Unit (FSRU) used in the plan different to the price quoted for the tender floated in 2021? If not, please provide a capacity and cost comparison.
2. Source for LNG FSRU cost estimation.
3. Does the forecasted LNG consumption in the plan align with the tendered capacity of the FSRU? If so, please provide a comparison.
4. Given the low plant factors of the NG power plants (As mentioned in the Annex 10.3 of the plan) can the forecasted LNG consumption fulfil the minimum purchase obligations stipulated in the above tender agreement? Please provide a gap analysis for each year and FSRU capacity charge/MMBTU based on the tender pricing.
5. The method of LNG procurement after the 10th year of the plan and the costs considered for 11th year onwards (Considering the LNG FSRU to be operated under a Build-Own-Operate model for 10 years)
6. For the period starting from the year 11 of the plan, does the LNG FSRU utilize the same capacity of the planned FSRU? If not, what is the additional costs associated with procuring a new FSRU and a new mooring system, as it is unlikely that the same mooring cost would be applicable for a new (and different sized) FSRU?
7. Reason for excluding the capital costs of LNG FSRU and mooring from the fuel cost of the candidate NG plants as done in the LTGEP 2023-2042, and including as a central capital cost, which would result in the software to suboptimize the plant selection.
8. Estimated capacity cost (per MMBTU) for the pipeline infrastructure for the plants to be converted to NG technology at Kelanitissa for each year based on the pipeline investment cost calculation
9. Basis for setting a maximum allowable limit of 75% for System Non-Synchronous Penetration (SNSP) level during the planning horizon
10. Results of a sensitivity analysis conducted under Section 8.4.2 (Cost projection sensitivity) without imposing a SNSP level
11. Specific cost calculation methodology for the Natural Gas & Hydrogen blended plants.

12. Is all the Hydrogen fuel planned to be used, green hydrogen and locally produced? If yes, the renewable energy source utilized for its production and whether it is accounted for in the generation capacity plan
13. How the energy imports through the HVDC interconnection are treated are accounted into the CO₂ calculations in pathway to Carbon Neutrality?
14. The contingency plan/analysis for the safe operation of the nuclear plant in the event of a HVDC interconnector failure

The above information/clarifications shall be sent before 20th December 2024.



Kanchana Siriwardena
Deputy Director General - Industry Services