

## Thomas Heldbo Wienberg (FSTS)

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**Emne:** Re: Risposta: RE: [SO GC TF] - CBA approval - cost elements from TSOs  
**Vedhæftede filer:** Efficiency and commodity prices.xlsx; 20190129 cba approval paper for electronic  
agreement.docx  
**Kategorier:** Journaliser

Dear all,  
with a short delay the TSOs answered to our request about costs.  
Please find below their clarifications.

Kind regards

Marco

TSOs answer

Here following we propose our idea for starting the implementation; by the way we would consider wise to be open to different possibilities if, when input data will be gathered during the implementation phase, we would recognize best possibilities. That said, anyhow this process would be transparent through the consolidated alignment foreseen between ENTSO-E and NRAs or, as already done, with dedicated meetings between NRAs and the Team implementing the CBA for FCR provided by LER.

Here following our answers:

- How to build LER cost curve:
  - How: using long-run marginal cost taking into account the investment costs (otherwise marginal costs on some technologies are almost zero);
  - Economic evaluation: need of assumption on technology to be used: electrochemical storage built mainly for FCR services which will be, according to today's experience, Lithium based storage systems;
- Please clarify how costs will be treated for different LFCBs:

About how to differentiate the costs for the different LFCBs we will further develop the task during the first phase of the implementation, when the input data will be gathered; by the way the first idea would be to consider a unique mean value for the whole SA using the LFCBs values. The way on how to calculate it, and if this can be considered the right solution, would be better understood when input data are collected.

Marginal costs of already existing non-LER:

- How: Opportunity costs;
- Economic evaluation of marginal costs: by using fuel costs and efficiency of different technologies (data available on TYNDP - please find attached the main data).

Please find also here the complete data set <https://tyndp.entsoe.eu/maps-data/> ; in general ENTSO-E TYNDP would provide expected technologies mix along with fuel costs and efficiency;

- Please clarify how costs will be treated for different LFCBs:

About the topic on how to differentiate the costs for the different LFCBs we will further develop the task during the first phase of the implementation, when the input data will be gathered; by the way the first idea would be to consider a unique mean value for the whole SA using the LFCBs values. The way on how to calculate it, and if this can be considered the right solution, would be better understood when input data are collected.

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