Paris Session 2022



Does the carbon pricing have full effectiveness for power sector?

SC5

PS3 - Q1 - Decarbonisation is a focus of many governments.

Is the pricing of carbon the best approach and what methods are best employed to make the price effective?

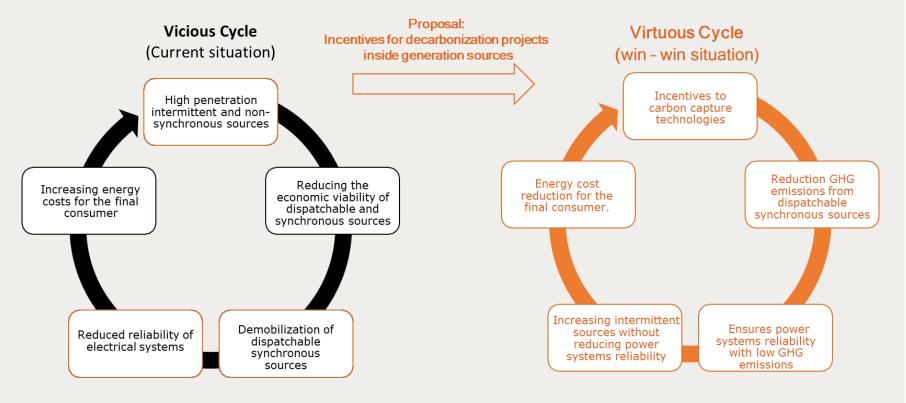
J.Mello and V.Ribeiro - Brazil



Does the carbon pricing have full effectiveness for power sector?

The decarbonization policies of years past have proven to be misguided from the point of view of power system reliability

The growing participation of non-synchronous intermittent sources n conjunction with the demobilization of dispatchable synchronous sources created a worrying vicious cycle in the power system. Conversely, encouraging carbon capture technologies transforms this vicious cycle into a virtuous circle.



Group Discussion Meeting

Does the carbon pricing have full effectiveness for power sector?

Takeaways and suggestions

Takeaways

- The decarbonization policies of years past have proven to be misguided from the point of view of power system reliability.
- The post-pandemic disruption of fuel supply chains, as well as recent extreme climate change events, shown the decarbonization based on intermittent and non-synchronous sources is not the unique solution
- Example, USA passed a law increasing subsidies for carbon capture technologies once combined reliability of dispatchable sources with low emissions are proved
- It is a recognition that the carbon market and carbon pricing is not yet fully functional and sufficient to make carbon capture technologies viable to accommodate system reliability

Sugestions

The carbon pricing methodology needs to be improved to incorporate reliability concerns of the power systems, given the current methodology does not incentivize carbon capture technologies

Decarbonization projects carried out in existing power plants can be more effective for low carbon route together with the reliability of power systems.

Group Discussion Meeting