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Date: 30-05-2024

Mr. Harpreet Singh Pruthi Hon'ble Secretary Central Electricity Regulatory Commission Janpath, New Delhi – 110 001

Sub.: Comments/Suggestion submission on Draft Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2024.

Ref (1): Public Notice for Draft Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2024. No. L-1/260/2021/CERC dated 30.04.2024.

Respected Sir/ Ma'am,

At the outset, we are pleased to convey our regards and appreciation for your initiatives to encourage private sector participation in Maharashtra.

We wish to introduce Hygenco Green Energies Private Limited (hereinafter referred as "Hygenco"), a company incorporated under Companies Act 1956 and a green hydrogen/ green ammonia generating company within the meaning of Section 2(28) of the Electricity Act 2003. Hygenco aims to be a global leader in deploying industry ready Green Hydrogen and Green Ammonia powered robust solutions.

We hereby submit our comments as Annexure 1, on aforesaid **Draft Central Electricity Regulatory Commission (Deviation Settlement Mechanism and Related Matters) Regulations, 2024** as circulated by Hon'ble MSLDC, for the kind consideration and necessary action.

We sincerely request the Hon'ble Commission to consider these suggestions/requests while finalising the aforementioned regulations.



Thanking You, For **Hygenco Green Energies Pvt Ltd** 



(Anand Kumar) Head– Regulatory Affairs & Project development.



#### COMMENTS ON DRAFT CENTRAL ELECTRICITY REGULATORY COMMISSION (DEVIATION SETTLEMENT MECHANISM AND RELATED MATTERS) REGULATIONS, 2024

Clause. No.	Clause No of Proposed GNA Reg	Suggestions/Observations
8. Charges	Clause (6)	It has been noted that Hon'ble MNRE has issued office memorandum for India Green Hydrogen
for Deviation	Charges for Deviation, in respect of an	Standard on date 18 Aug 2023. In this document Hon'ble MNRE has defined Green Hydrogen as
	ESS co-located with WS Seller(s)	below:
	connected at the same interconnection	
	<i>point, shall be as follows:</i>	Green Hydrogen shall mean Hydrogen produced using renewable energy, including, but not
	i) Such seller shall provide a separate	limited to, production through electrolysis or conversion of biomass. <b><u>Renewable energy also</u></b>
	schedule for WS and ESS components	includes such electricity generated from renewable sources which is stored in an energy storage
	through the Lead generator or QCA at	system or banked with the GRID in accordance with applicable regulations
	the interconnection point.	
	ii) Deviation corresponding to WS	In case of green hydrogen/ green ammonia production the concerned developer is mandated to
	component shall be charged at the	use 100% green energy whether from primary sources of energy like solar, wind, hydro, biomass
	same rates as applicable for WS Seller	etc., or from storage solutions like stored RE power in battery systems. Therefore for green
	being a generating station based on	hydrogen/ammonia producers, the sole purpose of RE stored in battery system for green
	solar or hybrid of wind-solar resource in	hydrogen/green ammonia production is to help such developers to combat with problem of
	accordance with clause (4) of this	high-frequency (sub-15 minute) intermittency as associated with available renewable energy,
	regulation; and	and to make such RE power availability more-firm and minimize deviations from submitted
	iii) Deviation corresponding to the ESS	schedule.
	component shall be charged at the	Therefore the same surgers of stand class FCC as the sid second class of leasted FCC surtains in
	same rates as applicable for a	Therefore the very purpose of stand-alone ESS vs. Hybrid power plant co-located ESS system is
	standalone ESS in accordance with	completely different. Treating both systems on similar lines is not justifiable and is counter-
	clause (5) of this regulation.	productive.
	Clause (5) Charges for Deviation, in	In case of hybrid power plant (WS), the sole purpose of co-located ESS is to complement the
	respect of a Standalone Energy Storage	fluctuations due to wind & solar energy production. When there is positive wind/solar fluctuation
	System (ESS), shall be at par with the	co-located battery system absorb such fluctuations by storing excess generation, and when there
	charges for Deviation for a general	is negative wind/solar fluctuations co-located battery system smoothen renewable production
	charges joi Deviation joi a general	is negative wind/solar nucluations co-located battery system shoothen renewable production

REGISTERED OFFICE: - 3RD FLOOR, JMD REGENT ARCADE MALL, BLOCK-A, DLF PHASE-1, SECTOR-28, GURUGRAM, HARYANA 122002, PHONE NO.: +91 9289462264, E-MAIL: <u>ROC@HYGENCO.IN</u> CIN: U40200HR2022PTC105547.



Clause. No.	Clause No of Proposed GNA Reg	Suggestions/Observations
	seller other than an RoR generating station or a generating station based	curve by releasing stored energy as per tied up demand.
	on municipal solid waste or WS seller as specified in Clause (1) of this Regulation	In a way green hydrogen / green ammonia developers having such hybrid power plant (WS) with collocated ESS actually help the GRID by making produced hybrid RE power (WS) 'firm' with the help of co-located ESS. Hybrid power plant co-located ESS has very minimalistic contribution to GRID fluctuations.
		Considering the same we request Hon'ble commission to de-link the charges of deviations with GRID frequency in case of ESS co-located with WS seller(s) which are connected at same interconnection point.
		For such ESS deviation charges may be computed in line with deviation charges as computed for WS Seller(s) only as per Clause 8(4).
		Deviation charges for stand-alone ESS may be taken as GRID frequency linked as suggested in mentioned staff paper.