

May 30, 2022

IWPA Circular No. 3 of 2022-23

(For the attention of all members having WEGs in Tamil Nadu)



Dear Member,

Sub: Engagement of QCA for FY 2022-23

1. The Tamil Nadu Electricity Regulatory Commission (Forecasting, Scheduling and Deviation Settlement and related matters for Wind and Solar Generation) Regulations, 2019 came into effect on 20th March 2019, the date on which it was published in the Tamil Nadu Government Gazette. The only part not given effect to was the commercial arrangements in respect of DSM penalties. **Forecasting of wind turbine power supply in respect of every WEG in Tamil Nadu is thus, mandatory and has to be done through a QCA.**
2. Subsequently, vide Lr.No. TNERC/DE/DDEI/F.DSM Procedure/D.No. 915/20 dated 3rd October, 2020 the Tamil Nadu Electricity Regulatory Commission published the approval granted by it for the "Procedure for implementation of Forecasting, Scheduling and Deviation Settlement of Wind and Solar Generation." Clause 1.5 of the Procedure reads, "... TNSLDC shall ensure that the necessary infrastructure to implement the Deviation Settlement Mechanism is put in place before the commencement of the commercial mechanism.
3. Chairman, TNERC has since been reviewing the progress made by SLDC as well as the QCA from time to time, the last such review having taken place on 4th April 2022. In the record note Lr.No.TNERC/DE/DDEI.F.Record note/D.No. 446/22 dated 11th April 2022, *Inter alia*, it states:
 - a. "... During the meeting with wind power producers on 28.3.2022, M/s Leap Green Energy acting as the QCA for wind generators informed that a mobile app has been developed which has provisions to make entries of generation, curtailments, etc. that could be installed by the SS operator. SLDC may make use of the app. He referred to the direction of APTTEL issued on curtailment of wind and solar power and the liability of the DISCOM to pay deemed generation charges for unnecessary curtailment. ..."
 - b. "... SLDC shall study the impact of deviations in wind generation during the seasonal period also ... The concluded report of the trial run of DSM ... addressing the above issues adhering to the timelines strictly may be furnished ... for the RE sources of wind and solar within 4 months"

As is evident from the above, **Leapgreen Energy continues to remain the QCA for Wind generators for FY 2022-23 also.**

4. Leap Green Energy, in its role as QCA, has been presenting data relating to its performance on the basis of standards set in the Regulations. The standards set in Regulation 7.2 are:

...2

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Deviation Charge for under or over injection, for sale or self-consumption of power within Tamil Nadu		
Sl. No.	Absolute Error in % terms in 15-minute time block	Deviation Charge payable to State Deviation Pool Account (Wind and Solar)
1	<= 10%	None
2	>10% but <=20%	At Rs. 0.25 per unit
3	>20% but <=30%	At Rs. 0.25 per unit for the shortfall or excess beyond 10% and up to 20% + Rs. 0.50 per unit for the balance energy beyond 20% and up to 30%
4	>30%	At Rs. 0.25 per unit for the shortfall or excess beyond 10% and up to 20% + Rs. 0.50 per unit for the balance energy beyond 20% and up to 30% + Rs. 1.00 per unit for the balance energy beyond 30%

As against these standards, the actual performance in respect of the forecasts furnished by Leap Green Energy to TNSLDC is as under:

(FC-AC)/AvC (AvC=8435 MW)*												
Absolute Error	No of Slots											
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
<=10%	2880	2976	2880	2976	2976	2880	2976	2880	2976	2976	2688	2976
>10% but <=20%	0	0	0	0	0	0	0	0	0	0	0	0
>20% but <=30%	0	0	0	0	0	0	0	0	0	0	0	0
>30%	0	0	0	0	0	0	0	0	0	0	0	0
Total	2880	2976	2880	2976	2976	2880	2976	2880	2976	2976	2688	2976

The formula used here is Absolute Error = $100 \times \frac{(\text{Actual Generation} - \text{Scheduled Generation})}{\text{Available Capacity}}$

In other words, had the commercial arrangements come into force there would have been no deviation charge payable during FY 2021-22.

- In addition to the formula prescribed in the Regulations, TNERC had advised Leap Green to also calculate the Absolute Error on the basis of scheduled power. Against this method, the actual performance in respect of the forecasts provided by Leap Green to TNSLDC is as under:

...3

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FC-AC/FC																								
Absolute Error	No of Slots																							
	Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Jan		Feb		Mar	
<=10%	390	13.5%	735	24.7%	1158	40.2%	1311	44.1%	1291	43.4%	938	32.6%	486	16.3%	486	16.3%	571	19.2%	580	19.5%	435	14.6%	553	18.6%
>10% but <=20%	397	13.8%	616	20.7%	695	24.1%	790	26.5%	812	27.3%	807	28.0%	402	13.5%	402	13.5%	522	17.5%	524	17.6%	484	16.3%	463	15.6%
>20% but <=30%	326	11.3%	449	15.1%	408	14.2%	345	11.6%	337	11.3%	499	17.3%	375	12.6%	375	12.6%	492	16.5%	479	16.1%	508	17.1%	417	14.0%
>30%	1767	61.4%	1176	39.5%	619	21.5%	530	17.8%	536	18.0%	636	22.1%	1713	57.6%	1713	57.6%	1391	46.7%	1393	46.8%	1261	42.4%	1543	51.8%
Total	2880		2976		2880		2976		2976		2880		2976		2976		2976		2976		2688		2976	

Based on Intra day forecast Vs Generation report received after a day

$$\text{Abs. Error \%} = ((\text{Scheduled Power} - \text{Actual Power}) / \text{Scheduled Power}) * 100$$

Under this formula, the average DSM penalty works out to Rs. 0.06 per KWh.

6. Over the past one year, Leap Green Energy was called upon to install additional servers at the TNSLDC office at its own cost. Further, they are required to install an additional server in 2022-23 also.
7. During 2021-22, out of 4685.1 MW represent by IWPA in Tamil Nadu, members have furnished data to Leap Green only in respect of 3243.7 MW, leaving pending data of 1441.3 MW. We would request members who have not furnished data till date to do so forthwith. The accuracy of forecasts depends on the availability of data and hence it is in the interest of ALL IWPA members to furnish the same.
8. Likewise, we understand that for FY 2021-22, some members are yet to make payment of QCA charges @ Rs 3,500/- + GST per MW to Leap Green Energy. We would urge them to make payment forthwith.
9. On account to lower receipts as well as the unforeseen expenditure on having to install servers in the TNSLDC Office, Leap Green Energy has been constrained to raise the rate towards QCA charges for FY 2022-23. However, at the request of IWPA and other Associations, they have reduced the same. The QCA charges for FY 2022-23, accordingly is @ Rs 4,000/- + GST per MW.
10. The necessary invoice will be received from M/s. Leap Green Energy Private Ltd. Payment may please be made as per bank details given below.

...4

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Bank account details: -

Account Number : 32118072329
Bank Name : State Bank of India
Branch & Address : Commercial Branch, 1087/A-F, Krishna Towers, Avinashi Road,
P.N. Palayam, Coimbatore – 641037.
IFS Code : SBIN0007536
Account type : Current Account

11. In case of any queries, you may reach out the following members of the Leap Green Energy Team:

- a. Mr. S. Prabhu – 80128 43334 - prabhu@leapgreenenergy.com
- b. Mr. C. Sivashanmugam – 96887 43334 – siva@leapgreenenergy.com
- c. Mr. N. Manmathan – 91597 43334 – manmathan@leapgreenenergy.com

Thanking you,

Yours faithfully
For Indian Wind Power Association

Ajay Devaraj
Secretary-General

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