

TELANGANA STATE ELECTRICITY REGULATORY COMMISSION

(Forecasting, Scheduling, Deviation Settlement and Related Matters for Solar and Wind Generation Sources) Regulations, 2018, Dated: 30-05-2018

Sl. No.	Description	Summary									
1.	Control Period	N.A.									
2.	Applicability	<ol style="list-style-type: none"> These Regulations shall apply to all wind or solar generators (excluding Rooftop PV Solar power projects) in Telangana connected to the intra-state transmission system, including those connected through pooling stations and supplying power to the DISCOMs, or to third parties through open access or for captive consumption through open access, and selling power within or outside of the State. The combined installed capacity of the wind or solar generators connected to a particular sub-station / pooling station or that of individual generator connected to some other sub-station shall not be less than 5 MW. 									
3.	Forecasting and scheduling	<ol style="list-style-type: none"> Forecasting shall be done by every wind and solar generator connected to the state grid directly or through pooling station, either by itself or by a QCA on its behalf. The SLDC shall also undertake forecasting of wind and solar power that is expected to be injected into the grid with the objective of ensuring secure grid operation by planning for the requisite balancing resources. The QCA on behalf of wind and solar generator(s) or generator(s) themselves shall submit a day-ahead and week-ahead schedule of each generator and aggregated schedule for each pooling station, as the case may be. Day-ahead schedule shall contain wind or solar energy generation schedule at intervals of fifteen (15) minutes time-block for the next day, starting from 00:00 hours of the day, and prepared for all ninety-six (96) time-blocks. The week-ahead schedule shall contain the same information for the next seven days or (96 X 7 time blocks): 									
4.	Metering	<ol style="list-style-type: none"> The wind and solar generator shall install the meters in accordance with the CEA (Installation and Operation of Meters) Regulations, 2006 as amended from time to time. The wind and solar generator shall also install appropriate telemetry / communication system and Data Acquisition System for transfer of required information for implementation of provisions of this Regulations so as to retrieve the same on real time basis by the SLDC. 									
5.	Energy Accounting and Deviation	<p>The energy generated shall be accounted for and payment made for the energy generated by the wind and solar generators, who are connected to the state grid, Accounting as well as payments, shall be in accordance with the guidelines and procedures specified by the Commission or such other competent authority under the Act, 2003.</p> <p>Deviation Charges in case of under or over-injection for sale / supply of power within the State:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sr. No.</th> <th style="text-align: center;">Absolute Error in the 15-minute time block</th> <th style="text-align: center;">Deviation charges payable to the State DSM pool</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: center;"><=15%</td> <td style="text-align: center;">None</td> </tr> <tr> <td style="text-align: center;">2.</td> <td style="text-align: center;">>15% but <=25%</td> <td style="text-align: center;">At Rs. 0.50 per unit for the shortfall or excess of energy for absolute error beyond 15% and upto 25%</td> </tr> </tbody> </table>	Sr. No.	Absolute Error in the 15-minute time block	Deviation charges payable to the State DSM pool	1.	<=15%	None	2.	>15% but <=25%	At Rs. 0.50 per unit for the shortfall or excess of energy for absolute error beyond 15% and upto 25%
Sr. No.	Absolute Error in the 15-minute time block	Deviation charges payable to the State DSM pool									
1.	<=15%	None									
2.	>15% but <=25%	At Rs. 0.50 per unit for the shortfall or excess of energy for absolute error beyond 15% and upto 25%									

		3.	>25% but <=35%	At Rs. 0.50 per unit for the shortfall or excess energy beyond 15% and upto 25% + Rs. 1.0 per unit for balance energy beyond 25% and upto 35%
		4.	>35%	At Rs. 0.50 per unit for the shortfall or excess energy beyond 15% and upto 25% + Rs. 1.0 per unit for shortfall or excess energy beyond 25% and upto 35% + Rs. 1.50 per unit for balance energy beyond 35%.
		The deviation charges for under or over injection by wind or solar generator connected to the state grid and selling power outside the State shall be payable or receivable as per the CERC (Deviation Settlement Mechanism and Related Matters) Regulations, 2014 as amended from time to time.		
6.	Metering Specifications	Interface metering for intra-state entities shall be undertaken on an urgent basis. Every entity must be metered with a Special Energy Meter (SEM) i.e. ABT compliant meter, capable of recording the energy in 15-minutes time block (with provision of 5-minutes integration). The generator through QCA or generator(s) themselves shall forward weekly meter readings to the SLDC latest by Wednesday in respect of a previous week in addition to data acquisition provided to SCADA for energy accounting purpose under this Regulation.		
7.	De-Pooling of Deviation Charge	The QCA serving the generators shall de-pool the energy deviation as well as deviation charges to each generator connected at a respective pooling station in proportion to energy injected in each time block by each generator		
8.	Grid Stability	All the wind and solar generators have to maintain reactive power, voltage and frequency in line with the central / state grid code regulations for maintenance of stability, safety and security of the grid.		