

# ANDHRA PRADESH ELECTRICITY REGULATORY COMMISSION

## (Power Evacuation from Captive Generation, Cogeneration and Renewable Energy Source Power Plants) Regulations, 2017, Dated: 05-06-2017

Sl. No.	Description	Summary
1.	<b>Control Period</b>	N.A.
2.	<b>Power Evacuation</b>	<ol style="list-style-type: none"> <li>1. Independent projects at a particular location shall normally be connected to the nearest grid substation (SS) of APTRANSCO /DISCOM, as the case may be.</li> <li>2. (2) The Solar and Wind power projects developed in cluster will be connected from the pooling bus/substation of the Solar/Wind farm by erection of 11 kV line or 33 kV line or EHT line for connecting to the existing nearest grid substation of APTRANSCO /DISCOM, as the case may be.</li> </ol>
3.	<b>Criteria for determining the power carrying capacity of conductors</b>	APTRANSCO/DISCOMs/Project Developers are free to use any equivalent conductor such as All Aluminum Conductors (AAC) or AL 59 or any other conductors that may come in future with technological advancement, depending upon the power to be evacuated. While evacuating power from these power plants, the Power Developers/APTRANSCO/DISCOMs shall select conductors of proper size based on the power capacity to be evacuated.
4.	<b>Power Evacuation capacities using different types of conductors for 11 kV, 33 kV and EHT voltages</b>	<ol style="list-style-type: none"> <li>1. Power evacuation at 11 kV level to the existing 33/11 kV SS shall be limited to 3 MW only and power evacuation at 33 kV level to the existing 33/11 kV SS shall be limited to 10 MW only, due to limitation of substation capacity.</li> <li>2. Power evacuation at 33 kV level to the EHT SS shall be limited to 40 MW subject to availability of transformation capacity. Power evacuation may be in one or more circuits depending upon availability of bays in that substation and loading per circuit can go upto 25 MW in case of wind power plants and whereas in case of other than wind power plants, loading per circuit shall not exceed 20 MW per circuit.</li> <li>3. If required, the DISCOMs/APTRANSCO shall do augmentation of power transformer capacity or bus bar capacity or erection of new bays within three months for 33 kV and six months for EHT and provide connectivity to the prospective power developers for power evacuation.</li> </ol>
5.	<b>Metering Arrangement and Energy Accounting</b>	<ol style="list-style-type: none"> <li>1. For Individual Capacity               <ol style="list-style-type: none"> <li>(a) Metering for small hydro, Bio-mass and municipal Solid waste projects for energy accounting shall be provided at the outgoing 33 kV or 11 kV of a power project connected through 33 kV or 11 kV line to the 33/11 SS or EHT SS.</li> <li>(b) Metering point for Solar/Wind individual power projects connected to EHT pooling substation for energy accounting shall be provided after the pooling substation HV bus bar side in pooling substation.</li> </ol> </li> <li>2. For Single owner Solar/Wind Projects that are connected to DISCOM/ APTRANSCO SS through a 33 kV (11 kV) line with a pooling bus of 33 kV {11 kV} at the project, metering for energy accounting shall be provided at the outgoing feeder of pooling bus.</li> </ol>

		<ol style="list-style-type: none"> <li>3. Multiple Solar/Wind project developers having meters at HV (33 kV) side of individual generator(s) with a pooling bus at the project, common metering point for energy accounting shall be provided at the outgoing feeder of pooling bus.</li> <li>4. For Solar/Wind Power Projects under Cluster Scheme upto 10 MW connected to 33/11 kV SS through 33 kV line The common metering (energy accounting meter) for Solar/Wind projects connected to a 33 kV SS shall be provided at the outgoing feeder of pooling bus.</li> <li>5. For Solar/Wind projects under cluster scheme connected to EHT pooling SS: The common metering (energy accounting meter) for Solar/Wind projects connected to a Pooling Substation (SS) shall be provided after the pooling substation HV bus bar side in Pooling SS.</li> </ol>
6.	<b>Cost Bearing mechanism of power Evacuation</b>	<ol style="list-style-type: none"> <li>1. Individual Solar, Wind, Bio-mass, Municipal Solid Waste (MSW and co-generation projects: The entire cost of evacuation shall be borne by the Power Producer along With metering facility</li> <li>2. Solar or Wind power projects under cluster scheme at 33 kV level : borne by Project Developer.</li> <li>3. Solar or Wind power projects under cluster scheme at EHT Level : borne by Project Developer.</li> <li>4. Small Hydro Power: APTRANSCO or DISCOMs shall provide connectivity as close as possible such that no Small Hydro Power Project is required to construct transmission line of more than 2 km length from the power plant to the nearest interconnection point. If the transmission line is not available.</li> </ol>
7.	<b>Testing, Commissioning and Synchronisation with the Grid</b>	The Project Developer/ Power Producer shall file an application with DISCOM and obtain Temporary Power Supply for construction purpose. The Project Developer shall have to pay all applicable charges for availing temporary power supply.