Annexure-I
InWEA's Comments on the Draft Central Electricity Regulatory Commission (Transmission Planning and other related matters)
Regulations, 2017

S.No	Title/ Draft Regulations Reference	InWEA's Comments
1	23 Procedure for Transmission Planning	Transmission Planning with the changing market scenario and increasing
	(a)	contribution of RE
	(b)	The transmission system forms a vital link in the electricity supply chain.
		Transmission system provides 'service' of inter-connection between the
		source (generator) and consumption (load centres) of electricity. With current
	(p) Transmission Planning for Renewable	Power markets which are most preferred for short-term energy procurement
	Energy Sources	along with the envisaged inclusion of 'green power markets', there is a need
		to design a robust transmission infrastructure to cater to the different markets
		that are present and envisages to be established in the near future efficiently.
		In addition to the above, inter-regional corridor capacity needs to be enhanced
		to permit seamless flow of wind/RE generation across state and regional
		boundaries. It is submitted that adequate capacity addition should be planned
		increase inter-regional RE transaction which would enable power to flow from
		surplus regions to deficit regions. In this context, InWEA would like to
		submit that relevant provisions should be included in the Regulations that
		would ensure planning of inter-regional transmission corridor for
		seamless RE transaction
2	19. Broad Principles of Transmission Planning	Reserves requirement in Transmission Infrastructure
	19.1. The broad principles of transmission	With the current trend of increasing capacity addition of RE sources, a share
	planning shall be as under:	of transmission infrastructure should be apportioned as transmission reserves.
	(a)	The transmission infrastructure should be adequate and robust enough for any

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	(b)	capacity that is planned to be injected in the near future. National Electricity
		Plan already required 5% spinning reserves to be always present in the system.
		Hence, to utilise the reserves along with the available capacity, there
	(1)	should be adequate transmission reserves in the infrastructure, and the
		transmission planning framework should ensure development such
		reserve infrastructure and the same should form part of the planning at
		the state level and regional level.
3	7. Role and Responsibility of CTU	Perspective Transmission Plan by CTU and STUs in Coordination
		InWEA would like to submit that following aspect should be considered while
	8. Role and Responsibility of STU	formulating the regulatory framework for the preparation of transmission plan
		at various levels:
		a) Short term and long term perspective transmission plan to be prepared
		in order to meet immediate requirements as well as long term RE
		capacity addition.
		b) Consider annual RE capacity addition and prepare evacuation plan
		accordingly considering short gestation period of RE/wind power
		plants (gestation period of wind power plants are less than 12 months
		while setting up transmission infrastructure takes more than 2 years).
		c) The plan should give priority to setting up of RE evacuation
		infrastructure over the connectivity for other generators.
		d) The plan should have clear timelines specified based on the RE
		capacity addition targets of the central/state policy.

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		e) New infrastructure to be set up as well as strengthening schemes should
		be considered under the plan so that future capacity addition (owing to
		re-powering), in the already connected locations, are taken care of.
4	18. Transparency in the planning process	Representation of the Renewable Sector in Transmission Planning Stage
	•••••	Improved coordination among RE generators, Discoms and planning agencies
		can lead to better planning of evacuation infrastructure for renewable energy
		evacuation. Therefore, due representations of RE generators in the planning
		committee or alike bodies formulated at the central level and state level
		responsible for transmission planning is advocated in the formulation of the
		central and state level plan. The designated committee should have
		representatives from varied facets of power sector ranging from conventional,
		through load dispatchers to renewable project developers. Periodic review of
		suggestions and a holistic view of the constraints will help to chalk out the
		constraints associated with evacuation of power from wind sources. Further
		due representation of this sector and coordinated effort put in by all members
		of the planning committee will lead to development and adoption of innovative
		ideas at planning stage itself. While the present draft Regulations (under
		draft Reg. 18 – "Transparency in planning process") specifies the need for
		involvement of various stakeholders, InWEA would like to submit that
		participation of RE generators should be ensured from the initial stages
		of transmission planning itself.
5	20. Transmission Planning Criteria:	CEA Planning criteria should contain specific provisions for RE projects
	20.2 While specifying the Planning Criteria, CEA	considering their unique nature and the need for promotion. InWEA
	shall also consider the following broad principles	requests to add the following new provision:

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6	a) b) c) d) e) f) (New Provision to be added) 7.2 In the context of implementation of these regulations, CTU shall perform the following functions (a) (b) To seek status of generation projects from the project developers and CEA on quarterly basis.	"(f) Criteria for transmission planning in terms of RE evacuation should have relaxed technical norms considering specifics of the RE project and location (for instance higher thermal loading capacity in high windy zones, N-1 criteria to be relaxed for remotely located wind and solar project evacuation, etc)" In order to bring all renewable energy projects at the stage as specified in the central repository of generators, the provision 7.2 (b) need to be changed as below. The same is considering the fact that SNA's are key agencies in procession of upcoming RE projects in the Country. b) To seek status of generation projects from the project developers, State Nodal Agencies (SNA) and CEA on quarterly basis
7	Concentration of Wind farms in few states	The installation of wind generators is concentrated in a few wind-rich states of India usually the coastal states in Southern and Western parts of India. It is worthwhile to note that the recently evolved target of 60 GW of wind capacity addition has been allocated again to these key wind-rich states in the country. In the case of limited capacity for inter-state and inter-regional evacuation infrastructure, it is difficult to evacuate wind power from wind-rich states to energy-deficient states of India. This poses obstacles for utilising the clean energy across states.

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		The National Transmission perspective plan and the Green Energy Corridor
		reports envisages the role of CTU in developing the infrastructure for High
		capacity hybrid UHV/EHV AC and HVDC transmission system in transfer of
		power from renewable-rich states to other deficit states and strengthening of
		the transmission system to be part of the plan and facilitating the evacuation
		of clean energy through strengthening of Intra as well as interstate
		transmission systems.
		The concentration of the wind installed capacity and the target to be achieved
		in a few states is depicted in the graph below:

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		Figure 1 Statistics- Wind Generation Installed Capacity Vs Target to be
		achieved
		Wind Installed Capacity Vs Target by 2022
		12,000 10,000 8,000 4,000 2,000 Tanil Madu
		Hence, the InWEA suggests that the regulations drafted should have provisions to give priority for setting up transmission lines to evacuate power generated from these wind-rich states, which is also in line with the
		National Transmission Perspective Plan and the Green Energy Corridor reports.