

Glossary of Technical Terms

Sl. No.	Technical Terms	Description
1	Area Clearing Price	Area Clearing Price is the clearing price for electricity transacted through power exchanges, for the respective bid areas.
2	Available Transfer Capability	Available Transfer Capability is equal to Total Transfer Capability minus transmission reliability margin fixed corridor-wise by National Load Despatch Center to ensure that the interconnected network is secure under a reasonable range of uncertainties in system conditions.
3	Central Transmission Utility	Clause 2(10) of the Electricity Act, 2003 defines Central Transmission Utility as any Government Company which the Central Government may notify under sub-section (1) of Section 38 of the Act. PGCIL has been notified by the Central Government as Central Transmission Utility.
4	Circuit kilometre	Product of the number of circuits forming part of a transmission line and the length of transmission line in kilometre.
5	Congestion	CERC Regulations define congestion as a situation where the demand for transmission capacity exceeds the available transfer capability.
6	Double Circuit	A double circuit transmission line has two circuits. A double circuit configuration has six conductors (three phases for each circuit).
7	Element	Any electric device with terminals that may be connected to other electric devices, such as generators, transformer, circuit, circuit breaker etc.
8	Feasibility Report	Feasibility Report is a document containing evaluation and analysis of the potential of proposed project based on extensive investigation and research to support the process of decision making.
9	Green Corridor	Green corridor is a transmission corridor planned and executed to evacuate power mainly from Renewable Sources like wind and solar energy.

10	High Voltage Direct Current system	High Voltage Direct Current system system comprises of point-to-point lines through which system operators can regulate flow of electricity
11	Indian Energy Exchange Limited	Indian Energy Exchange Limited is the largest energy exchange in India providing a nationwide, automated trading platform for physical delivery of electricity, Renewable Energy Certificates and Energy Saving Certificates. The exchange platform enables efficient price discovery and increases the accessibility and transparency of the power market in India while also enhancing the speed and efficiency of trade execution.
12	Infirm Power	Power generated by a power station prior to its date of commercial operation
13	Inter-Regional Lines	Lines connecting two regions are called Inter Regional Lines
14	Loadability	Line loadability is defined as degree of line loading expressed in terms of percentage of SIL (Surge Impedance Loading), limited by thermal, voltage drop and stability limit.
15	Long Term Access	Long Term Access (LTA) means the right to use the inter-state transmission system for a period exceeding 12 years but not exceeding 25 years.
16	Market Clearing Price	The Market Clearing Price (MCP) is the clearing price for cleared transactions in the whole country when there is no congestion.
17	Million Unit	Kilowatt-hour (kWh), i.e., one kilowatt of power expended for one hour of time, is called a 'Unit'. A collection of one million units is called 'MU'.
18	MVA	MVA, i.e., Mega Volt Ampere is a unit of measurement of apparent power in an electrical circuit. This unit of measurement can be used on in AC circuits. Transformers used in power transmission are rated in MVA.
19	Open Access	Open access means the non-discriminatory provision for the use of transmission lines or distribution system or associated facilities

		with such lines or system by any licensee or consumer or a person engaged in generation in accordance with the regulations specified by the Appropriate Commission.
20	Right of Way	Right of Way (ROW) with reference to transmission projects means right for placing of electric lines for transmission of electricity along the path through with such lines pass through.
21	Short Term Open Access	Access provided to a generator or seller of power for transmission of power for a short-term period (i.e., for a period up to one month at a time). POSOCO is the Nodal Agency for grant of Short-Term Open Access under CERC regulations.
22	Single Circuit	A single circuit transmission line has only one circuit. a single circuit configuration has three conductors for the three phases.
23	Spare Capacity	Spare Capacity is the project execution capacity.
24	Standing Committee for Power System Planning	Standing Committee for Power System Planning (SCPSP) for each region is constituted by CEA for carrying out its duties of integrated planning under Section 73 (a) of the Electricity Act, 2003. These committees are headed by Member CEA and have representative of Central Transmission Utilities, State Transmission Utilities, Central Generating Units (CGUs) etc. as members. SCPSP provides technical approval to the projects.
25	Surge Impedance Loading	Surge impedance loading (SIL) of a transmission line is the MW loading of a transmission line at which natural reactive power balance occurs.
26	System Operating Limit	System Operating Limit is defined as the value (such as MW, MVar, Amperes, Frequency or Volts) that satisfies the most limiting of the prescribed operating criteria for a transmission system configuration to ensure operation within acceptable reliability criteria.

27	Total Transfer Capacity	The amount of electric power that can be transferred reliably over the transmission system under a given set of operating conditions.
28	Transfer Capability	Transfer capability refers to the amount of electric power that can be passed through a transmission network from one place to another having regard to reliability considerations.
29	Transmission Capacity	Transmission Capacity is equal to summation of ratings of individual lines.
30	Transmission Corridor	An interconnected group of lines and associated equipment for movement or transfer of electric energy between points of supply and points at which it is transformed for delivery to customers or is delivered to other electric system.