सत्यमेव जयते

Azadi Ka Amrit Mahotsav

भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee
एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय
NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

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No.: No. NERPC/SE (O)/OCC/2025/ 951-993

May 28, 2025

To
As per list attached

Sub: 226वीं ऑपरेशन समन्वय उप-समिति (ओसीसी) बैठक का कार्यवृत्त / Minutes of 226th Operation Coordination Sub-Committee (OCC) Meeting

महोदय/महोदया,

कृपया 20 मई 2025 को एनईआरपीसी कॉन्फ्रेंस हॉल, शिलांग में आयोजित 226वीं ओसीसी बैठक के कार्यवृत्त को अपनी सूचना एवं आवश्यक कार्रवाई हेतु संलग्न पाएं। कार्यवृत्त NERPC की वेबसाइट: www.nerpc.gov.in पर भी उपलब्ध है।

कृपया कोई भी टिप्पणी जल्द से जल्द NERPC सचिवालय को सूचित करें।

Sir/Madam,

Please find enclosed herewith the minutes of the 226th OCC Meeting held at NERPC Conference Hall, Shillong on 20th May 2025 for your kind information and necessary action. The minutes is also available on the website of NERPC: www.nerpc.gov.in.

Any comments/observations may kindly be communicated to NERPC Secretariat at the earliest.

भवदीय / Yours faithfully,

(वीरेंद्रनाथ मुंचा/ Veerendranath Muncha)
निदेशक / Director

Encl: As above

Distribution List:

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
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4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
5. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
6. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong – 793 001
8. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. GM (Transmission), TPTL, Bidyut Bhaban, Banamalipur, Agartala -799 001.
12. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Chief Engineer (Commercial) -cum- CEI, DoP, Govt. of Arunachal Pradesh, Itanagar- 791111
15. Engineer-in-Chief, P&E Department, Govt. of Mizoram, Aizawl – 796 001
16. Engineer-in-Chief, Department of Power, Govt. of Nagaland, Kohima – 797 001
17. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
18. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
19. Group GM, NTPC, Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
20. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura – 799014
21. ED, PGCIL/NERTS, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
22. AGM (BD), NVVN, Core 5, 3rd floor, Scope Complex, 7 Institutional Area, Lodhi Rd., N. Delhi-3
23. Vice President, PTCIL, 2nd Floor, NBCC Tower, 15, Bhikaji Cama Place, New Delhi – 110066
24. Dy. COO, CTUIL, "Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram, Haryana – 122001
25. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
26. Chief Engineer, NPC Division, Central Electricity Authority, New Delhi – 110066
27. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
28. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
29. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
30. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
31. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
32. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
33. Head of SLDC, MSPCL, Imphal – 795001
34. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
35. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
36. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
37. Head of SLDC, TSECL, Agartala – 799001
38. Chief Engineer (Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
39. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura – 799014
40. Director, NETC, 2C, 3rdFloor, D21Corporate Park, DMRC Building Sector 21, Dwarka, Delhi-77
41. AGM Regulatory & Commercial, NER II TL, 10th Floor, Berger Tower, Noida sector 16B-201301
42. Project Head, NERPSIP/PGCIL, Pub Suraj Nagar, Nutun Bazar, Kahelipara, Guwahati- 781019
43. ED, Comprehensive Scheme (Ar. Pradesh), PGCIL, Tayeng Building, Nitivihar, Itanagar-791111

(वीरेंद्रनाथ मुंचा/ Veerendranath Muncha)
निदेशक / Director

MINUTES

OF

226th OCC MEETING

Time of meeting: 10:30 Hrs.

Date of meeting: 20th May, 2025 (Tuesday)

Venue: NERPC Conference Hall, Shillong

Contents

NORTH EASTERN REGIONAL POWER COMMITTEE

MINUTES OF 226TH OCC MEETING HELD ON 20.05.2025 (TUESDAY) AT 10:30 HRS

List of participants is attached as **annexure I**

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 225thMeeting of OCC Sub-Committee of NERPC

The minutes of 225thmeeting of OCC Sub-committee held on22.04.2025 at NERPC Conference Hall, Shillong were circulated vide letter No.NERPC/SE (O)/OCC/2025/ 663-705 dated 7th May, 2025.

NERLDC vide email dtd. 8thMay'25 submitted the following comments –

"With reference to the draft minutes of the 225th OCCM, under Agenda Item No. 2.3 titled "Non-Functionality of Online Transfer of Elements at Kameng HEP" it was discussed that NEEPCO would consult the OEM to carry out a root cause analysis and share the findings in the next OCCM. Furthermore, it was decided that NEEPCO would make another attempt to carry out the online transfer of elements during sunny weather conditions"

Deliberation:

The forum opined that NERLDC's comments may be dropped and as noted in the 225th OCC meeting, NEEPCO will make attempt to carry out the online transfer in Sunny weather at the earliest and if the issue still persists, OEM had to be consulted. Further, MS NERPC requested NEEPCO to carry out the exercise at the earliest and the matter to be reviewed in regular intervals.

The sub-committee confirmed the minutes of the 225th OCCM in the original form.

2. PART-B: ITEMS FOR DISCUSSION

AGENDA FROM NERPC

2.1. Outage planning

I. Generation Planning (ongoing and planned outages)

a. In 217thOCCM, NEEPCO informed that they would provide daily inflow data for storage-type Hydro PS. NHPC also agreed to provide inflow data as per the NER operational data format. Based on that data provided from NEEPCO and NHPC present per day MU and projected number of days of operation.

Plants	Reservoir Level in meters (as on 17/05/2025)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong STG II	716.8	19.58	0.555	35
Kopili	606.95	80	1.210	66
Doyang	306.95	1.3	0.102	13
Loktak	766.57	15	0.318	47

The outage of other generating stations may be approved considering the present water levels in reservoirs. CEA has approved the generation outage plan for FY 2025-26. All the utilities may take note of it and in case of any modification from the Approved Planned Outages, the same may be finalized in consultation with GM Division

b. Outage Planning of Transmission elements

As per the Outage planning procedure of NER the planned outages approved in the OCC forum has to be reconfirmed by the availing utilities

on 10:00hrs. of D-4 to 12:00 hrs. of D-3) to NERLDC in order to either avail the approved shutdown or cancel it.

If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC between 10 hrs. of 6th of the month to 1200 hrs. of 7th of the month. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

Subsequently NER stakeholders have provided shutdown request for transmission elements for the month of June-2025.

Deliberation of the sub-committee

NERPC apprised that the shutdowns proposed for the month of June'25 have been discussed in the monthly outage discussion meeting held on 14.05.2025 and the list of approved shutdowns is attached as **annexure 2.1**.

Sub-committee noted the same

2.2. Assessment of ERS requirement in NER at different voltage level in compliance with MoP/CEA guidelines

As per the direction of MoP (in 2014) ERS has to be arranged by Transmission Utiltiy as per the following criteria -

- One (1) set of ERS for Transmission Line Lengths upto 5,000 Ckt-kms
- Two (2) set of ERS for Transmission Line Lengths of about 5,000 to 10,000 Ckt-kms
- Three (3) set of ERS for Transmission Line Lengths of about 10,000 to 15,000 Ckt-kms and so on.

Note: Transmission Utility with line length less than 500 Ckt kms (of 400 kV) may be given option either to procure ERS or have arrangement with other Transmission utilities for providing ERS on mutually agreed terms, when need arises.

In this context assessment of ERS requirement for NER may be deliberated upon.

Deliberation of the sub-committee

Some utilities provide the status in the table below –

	Utility/state	Total ckt Km	No. of ERSs set required as the guideline	Availability of the ERS set
	Powergrid	9000	2	2
	KMTL	254	1	NIL
	Sterlite (NBTL+MUML)			
	NTL (Indigrid)			
	NETC			
	Ar. Pradesh			
	Assam	5426	2	2
	Manipur			
	Meghalaya	1048	1	NIL
	Mizoram			
	Nagaland			
	Tripura			

MS NERPC instructed all the remaining utilities to fill up the table and take necessary actions to procure the ERS or have arrangement with other Transmission utilities as the guideline above. Further he apprised the state utilities that PSDF funding can be availed for the ERS and requested them to prepare DPR for the same.

2.3. Islanding Scheme Preparedness and Operation of Embedded Generation to Enhance Power System Resilience

CEA vide letter CEA/GO-15-14/1/2021-NPC Division dtd. 11th May (copy attached as annexure 2.3) has stated and directed the following –

Ensuring the uninterrupted operation of critical services during emergencies is of paramount important, Islanding Schemes are one of the measures which prevent total blackout and enable quicker restoration of grid at the time of grid disturbances. As per Central Electricity Authority (Grid Standards) Regulation, 2010, " (1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system from total collapse in case of grid disturbance. (2) The Entities shall ensure proper implementation of the Schemes referred to in sub-regulation (1).

2. The effective implementation of islanding schemes is vital for maintaining continuity of essential services during grid failures. At present, 23 islanding schemes are operational across the Indian power system (Copy Enclosed). The successful functioning of embedded generation within these schemes is crucial for their intended performance during any grid contingency.

3. In view of the above, the following actions required to be done on priority:

a) A Comprehensive reviews of all the Islanding schemes and LGB to be monitored continuously with the participating generators and loads. Specifically, the critical loads such as Airport, Defence & Critical loads within the islands are to be reviewed. (Action: RPCs/RLDC/SLDC/Participating Generators and Load)

b) Testing and Validation of Islanding Schemes: Periodic testing of the implemented islanding schemes must be carried out to ensure their readiness and functional health. (Action: SLDCs / Generating Stations /RLDCs/RPCs)

c) Compensation Mechanism for Minimum Generation: Appropriate compensation for operating generating units at the minimum required level (must-run status) must be determined and provided to ensure financial viability. (Action: SERCs / CERC)

In view of the above, ***all concerned entities are hereby directed to ensure compliance with the above measures to strengthen grid resilience and support continuity of critical services during emergencies. RPCs are***

requested to ensure above compliance with respect to SLDCs/Generating Stations/RLDCs.

Deliberation of the sub-committee

NERPC informed that two islands of NER have been covered in the above direction of CEA, i.e. Upper Assam and Itanagar.

Regarding must-run status of the generators embedded in the two islands of NER, Forum opined that, ensuring must-run status of gas based thermal plants in Upper Assam Island and Hydro plant in Itanagar Island will be challenging due to constraints in gas supply and uncertainty in availability of water respectively. MS NERPC stated that the concern will be communicated to CEA for necessary actions.

In response to a query on islanding validation, NERLDC informed that the current validations are carried out through PSS®E simulations. As the two operational islanding schemes in NER are based on UFRs, the healthiness of the UFRs can be validated by the respective utilities.

Further, MS NERPC stated that mock testing of Upper Assam Island will be conducted within 2 months. The forum urged Assam SLDC, AR. Pradesh SLDC, NEEPCO and AEGCL to ensure healthiness of the UFR and islands all the time and ensure compliance with the above directions of CEA/MoP.

2.4. Standard Operating Procedure for Restoration of the Transmission System

CEA vide letter CEA-PS-14-77/1/2025-PSETD Division dt 11th May (copy attached as annexure 2.4) has circulated a Standard Operating Procedure (SOP) to all Transmission Companies to quickly restore damaged transmission systems, protect personnel, and strengthen power system resilience.

In this regard, it is mentioned that objective of the aforesaid SOP is to establish a structured plan to quickly restore damaged transmission systems, protect personnel, and strengthen power system resilience. The SOP shall apply to all substations and associated transmission infrastructure—

including transmission lines, transformers, switchyards, protection & control systems, and communication systems—located in high risk or vulnerable zones.

Accordingly, the aforesaid SOP is enclosed herewith for necessary compliance by all Transmission Companies/SLDCs

Deliberation of the sub-committee

NERPC highlighted the provisions of the Standard Operating Procedure (SoP). The forum urged all the transmission utilities to comply with the SoP.

AGENDA FROM NERLDC

2.5. Operational Performance and Grid discipline during March 2025:

NERLDC presented the Operational Performance and Grid Discipline Report for the month of April 2025 (Annexure 2.5).

2.6. Unauthorized Operation of 132 kV Khandong–Umrangshu Circuit on 06-05-2025 by NEEPCO with intimation to NERLDC

It is brought to the attention the 132kV Khandong–Umrangshu circuit was opened from the Khandong end at 17:56 Hrs and subsequently closed at 18:03 Hrs on 06-05-2025, without obtaining the requisite code from NERLDC. At the time of this operation, the 132 kV Haflong–Jiribam line was under continuous Planned Shutdown. As a result of this action, both 132kV Umrangshu and 132kV Haflong substations experienced a blackout during the mentioned period. Upon verbal confirmation from Khandong, it was learned that the line was manually tripped by their maintenance team and subsequently reclosed without prior clearance from NERLDC, nor was any intimation provided to NERLDC regarding this operation.

This action from NEEPCO, a clear violation of the Indian Electricity Grid Code (IEGC) provisions. As per IEGC 2023 -System Security, Section 29(c):

"An important element of the grid as listed at sub-clause (b) of this clause can be taken out of service only after prior clearance of the concerned RLDC,

except in emergencies as per the Detailed Operating Procedure(s) of NLDC or RLDC or SLDC, as the case may be."

In view of the above, NEEPCO is requested to kindly provide the following inputs for review by the forum:

a. Reason for the operation of the 132kV Khandong–Umrangshu circuit without NERLDC code.

b. Corrective and preventive actions taken to ensure that such incidents are not repeated in the future.

Deliberation of the sub-committee

NEEPCO informed that it was an inadvertent human error on the part of the maintenance team and assured that such incident will not be repeated in future.

Forum urged and advised NEEPCO to strictly follow the Standard Operating Procedure (SoP) for O&M practices.

2.7. Submission of Machine Model Data for Khandong HEP – Requirement for FTC Activities

It is to be noted that, as informed during the 224th OCC Meeting, the units of Khandong HEP are scheduled to begin synchronization by May 2025. In view of the above, and to facilitate smooth coordination and execution of First Time Charging (FTC) activities, it is requested that Khandong HEP may kindly initiate the submission of detailed machine models at the earliest, in accordance with the GRID-INDIA FTC procedure available on the NLDC website.

Early submission of the required data will provide sufficient time for model validation, analysis, and coordination, thereby ensuring preparedness well in advance of the commissioning schedule.

Deliberation of the sub-committee

NEEPCO informed that the required data has been uploaded on the portal of NERLDC and other data, as required by NERLDC, is being provided. NERLDC highlighted that data needs to submitted within the timeline as per the established procedure. Forum urged NEEPCO to follow the timeline for data submission in future.

2.8. Review of Reactive Power Filter Management During HVDC Disturbance at BNC

On 6th April 2025 at 12:45 Hrs, Pole-2 of the Agra–BNC HVDC link tripped while 1500 MW was flowing towards BNC. This resulted in a sharp voltage rise of around 20–22 kV at the BNC terminal, although voltage was stabilized within two minutes. It was noted that the Reactive Power Control (RPC) was operating in Manual mode at the time.

As per the information received from PGCIL, the RPC system at BNC is designed to shift to Manual mode under reverse power flow conditions, and Auto mode is not presently available in such scenarios. Clarification is requested on whether this limitation is due to system design or other technical constraints. Additionally, it is requested to clarify whether the filter banks will be taken out of service in the event of simultaneous tripping of both poles during reverse power flow (Agra to BNC direction).

Studies suggest that the combination of HVDC pole tripping and manual filter switching can lead to significant voltage surges, which may trigger Stage-1 overvoltage protection and compromise grid security.

In view of the above, it is advised that the RPC system at BNC be made capable of operating in Auto mode even under reverse power flow. This will help ensure timely reactive power compensation, enhance voltage stability, and support secure and reliable grid operation.

A request in this regard has already been sent to Powergrid, but no response has yet been received by NERLDC.

Deliberation of the sub-committee

NERLDC raised two queries to NERTS-

1. whether the filter banks will be taken out of service in the event of simultaneous tripping of both poles during reverse power flow (Agra to BNC direction).
2. Can Reactive Power Control (RPC)system at BNC be made capable of operating in Auto mode even under reverse power flow

NERTS stated that they will first conduct a technical study in coordination with the OEM and then reply to the both the queries.

2.9. Finalization of List of Important Grid Elements for 2025-26 — Pending Inputs from Constituents

As per *IEGC Clause 29(2)(b)*, each RLDC, in consultation with concerned RPCs, Users, and SLDCs, is required to prepare and circulate a list of important elements in the regional grid, including those in State grids that are critical for regional grid operation.
In line with this requirement, the **Draft List of Important Grid Elements 2025-26** was circulated vide email dated **07.04.2025**, requesting comments/additions/omissions from all stakeholders by **07.05.2025**. A reminder was also sent on **05.05.2025**.

Status of Inputs Received:

- **Inputs Received**: SLDC Assam and Sterlite Power
- **Inputs Pending**: Remaining SLDCs and utilities

NERLDC requested to ensure submission of updated data latest by 24th May 2025 so that above list can be published by 31st May 2025.

NERLDC further requested that constituents update their respective file and rename it to "**List of Important Grid Elements - Constituent Name.xlsx**", and forward the same by 24th May 2025"

Deliberation of the sub-committee

Forum requested the utilities to provide comments on the draft list by 25th May'2025 to NERLDC.

2.10. Persistent Overdrawal by Tripura During Low-Frequency Conditions

A serious issue regarding grid discipline and compliance has been observed. Despite clear instructions issued on 22.04.2025 to restrict overdrawal and support frequency recovery, the SLDC Tripura has not implemented the required corrective measures.

Tripura has been continuously overdrawing approximately 55 MW from the grid during low-frequency conditions, with frequency levels ranging between 49.66 Hz and 49.85 Hz. Such sustained over drawl during low frequency undermines grid stability and adversely affects real-time operations.

We request SLDC Tripura to adheres the instructions issued by the NERLDC and complies with grid regulations. The official communication issued on this matter is enclosed as Annexure-2.10.1, and a plot illustrating Tripura's over drawl in relation to frequency is attached as Annexure-2.10.2.

Immediate attention to this issue is essential.

Deliberation of the sub-committee

Forum enquired Tripura about the reasons for over drawl. Tripura informed that they could not get power in DAM and RTM during the time blocks due to non-availability, so they had to resort to Over drawl from Grid to meet their peak demand. Forum strongly advised Tripura to refrain from over drawl which can jeopardize the grid. Further, the forum advised Tripura to forecast their demand on monthly and yearly basis, as accurately as possible, and make bilateral arrangements and banking arrangements for meeting their peak demand and resort to DAM and RTM only in cases of contingencies.

The forum noted that the matter needs to be referred to upcoming DISCOM/CCM meeting for further deliberation with DISCOM also.

2.11. Operational Planning and Resource Adequacy for June 2025

The Operational Planning and Resource Adequacy assessment for June 2025 has been prepared and will be presented in the OCC meeting for review and comments

- All utilities are requested to review the assessment and provide any necessary inputs or observations.
- Kindly share your feedback at the earliest to ensure comprehensive planning.

Deliberation of the sub-committee

NERLDC presented the resource adequacy assessment report for June'25 (**annexure 2.11**). It was highlighted that Assam, Manipur and Tripura will face significant shortages in meeting peak demands in June.

Assam informed that they will cover their shortage through Bilateral arrangements, which are already in place.

Forum requested Manipur and Tripura to take necessary measures to cover their shortages and advised to not completely rely on DAM and RTM during high demand months.

MS NERPC stated that the resource adequacy matter can be discussed with Discoms and SLDCs in DISCOM meeting.

2.12. Review of Governor Setting Implementation by NEEPCO Hydro Plants During Civil Defence Mock Drill on 07.05.2025

As per the communication dated 6th May 2025 from the Ministry of Home Affairs to Chief Secretaries of all States and Administrators of UTs, Civil Defence Mock Drills were scheduled across 244 districts during the afternoon/evening hours of 7th May 2025. This matter was also discussed during the FOLD meeting held on 7th May 2025.

In view of ensuring safe and reliable grid operation during the mock drills, all generating stations were advised to implement specific operational measures as directed by NLDC, in line with CERC IEGC 2023 Regulations. These included:

1. Operation of generating units in Free Governor Mode.
2. Implementation of governor droop settings by 1600 Hrs:
    - Hydro Units: 2% or lower
    - Thermal Units: Not more than 5%

3. Automatic curtailment of wind generation above 50.30 Hz.

4. Revised governor settings to be maintained during 16:00–24:00 hrs on 07.05.2025.

All generating plants within NERLDC jurisdiction adhered to the instructions, except NEEPCO hydro plants. While some NEEPCO plant such as Pare HEP and Doyang HEP adjusted their governor settings to the specified values initially but reverted to their original settings shortly thereafter.

Given the critical nature of national-level drills, maintaining the revised governor settings was essential for grid stability. Failure to sustain these settings not only contravenes the operational guidance provided by NERLDC but also undermines coordinated efforts to ensure secure grid operation during such exercises.

NEEPCO is urged to acknowledge the gravity of the situation and ensure full and sustained adherence to operational instructions issued by NERLDC in future events. This matter is proposed for deliberation in the forum to reinforce the importance of timely and consistent implementation of grid support measures by all entities.

Deliberation of the sub-committee

NERLDC highlighted that during the mock drills, NEEPCO hydro plants did not adhere to the instructions of NERLDC and revised their droop settings. NEEPCO replied that they got the instruction very late and did not have sufficient time to take the OEM in the loop and study the repercussions of revised droop settings on the machine and governor.

NERLDC stated that during an emergency time, instructions are bound to come at eleventh hour and generators have to follow the instructions.

MS NERPC urged NEEPCO to intimate their OEM about possibilities of such emergency situations beforehand and carry out necessary tests and studies for probable revised settings that might come from NERLDC in coordination with NERLDC. This will ensure that the machines are ready to handle emergency situations.

2.13. SCADA Display Update for Upper Assam and Itanagar Islanding Schemes

As you are aware, the Upper Assam Islanding Scheme and Itanagar Islanding Scheme have been operational since 09.05.2025 and 10.05.2025, respectively. In light of this, it is imperative that the SCADA display at NERLDC be updated to facilitate real-time monitoring and ensure smoother system operation.

In light of this, it is imperative that the SCADA display at NERLDC be updated to include comprehensive, real-time visibility of all critical generation and load points within the islanding schemes. This will empower system operators to take swift and informed decisions to preserve grid stability during emergencies.

Therefore, it is kindly requested that the necessary updates be implemented at your end to enhance operational efficiency and response capabilities.

Deliberation of the sub-committee

Forum requested the SLDCs to update and map the identified UFR points, critical generator and load points in the islands in both the NERLDC and SLDC SCADA system at the earliest.

2.14. Real-Time Monitoring and Generation Scheduling for Islanding Schemes During Emergencies

Real-time monitoring and strategic scheduling of islanding schemes, particularly for Upper Assam and Itanagar, are of critical importance during emergency situations such as natural disasters (e.g., earthquakes) or man-made crises (e.g., war-like conditions). Under such extreme scenarios, ensuring the survival and operational integrity of the islanded grid becomes a top priority.

In these conditions, generation scheduling must be carefully optimized to minimize tie-line flows with the main grid. This approach reduces external dependency and enhances the resilience of the islanded system, thereby significantly improving the likelihood of sustained, autonomous operation even in the event of complete separation from the main grid.

Deliberation of the sub-committee

NERLDC informed the concerned stakeholders that generation within the islanding schemes shall be continuously monitored and strategically managed to enhance the probability of successful islanding operation during emergencies.

Forum noted the same

2.15. Implementation of SOP for Staggered Load Disconnection During City-Level Blackouts

As per the Standard Operating Procedure (SOP) issued by NLDC on 11th May 2025, during any city-level blackout, the disconnection of loads should be carried out in a staggered manner by switching off distribution level feeders (33kV/11kV), rather than directly tripping high voltage lines (132kV and above). This approach is aimed at ensuring grid reliability, maintaining the integrity of the transmission system, and continuing power supply to critical installations such as hospitals, defense establishments, and other essential services. DISCOMs are required to prepare and execute feeder-wise disconnection plans in coordination with SLDC and RLDC, ensuring that essential feeders remain energized while non-critical loads are systematically disconnected. Furthermore, DISCOMs must inform the respective SLDC and RLDC in advance of any blackout, providing details such as the area affected, feeder-wise disconnection sequence, estimated duration.

Deliberation of the sub-committee

MS NERPC directed NERLDC to share the SoP with all the states and requested the DISCOMS and SLDCs to implement the SoP.

2.16. Non-Availability of Synchroscope at 132kV Kolasib Substation

Turial HEP successfully conducted the mock black start exercise of Unit #1 (30 MW) on 08th April 2025. As per the modified procedure, the unit was synchronized with the grid at the 132kV bus at Turial. However, as per standard practice, synchronization during a mock black start exercise should be carried out at a remote substation via one of the transmission lines.

This deviation from the established protocol was due to the non-availability of a synchroscope at the 132kV Kolasib substation, which is the only substation connected to Turial HEP.

Referring to minutes of217th OCC meeting held on 20th August 2024 (Item No. B4), Mizoram had stated that "SAS at Kolasib substation would be commissioned by January 2025, and necessary arrangements would be made to enable synchronization of units at Kolasib during mock black start exercises."

In view of the prevailing geo-political situation, it is imperative that black start facilities remain in a fully functional and compliant state. Therefore, Mizoram is requested to expedite the commissioning of SAS and ensure that the required synchronization facilities are made available at the earliest.

Deliberation of the sub-committee

Mizoram representative informed that the synchroscope for Kolasib SS has been procured on 16th March 2025 and the same has been installed now.

Forum requested NEEPCO to conduct Mock Black Exercise of Tuirial plant, to be synchronized at Kolasib end, in lean hydro season i.e. Aug-Sept'25.

2.17. Request for Expedited NOAR Registration from NER intra state generating utilities:

As per the data submitted by Grid India, it has been observed that a large number of intra-state generating stations have not yet been registered on the NOAR portal. Registration of these generating stations is essential, as unregistered plants are not permitted to participate in short-term open access transactions.

The issue of registration was discussed in the 6th meeting of the High-Level Committee on implementation of the Late Payment Surcharge (LPS) Rules, 2022. The Committee recommended that all generating companies (GENCOs) should immediately register their intra-state generating plants on the NOAR portal to ensure compliance and enable seamless power transactions.

With reference to NERLDC's communications dated 03.10.2024 and 03.12.2024 to all NER states regarding the registration of intra-state generating units in the National Open Access Registry (NOAR), we wish to reiterate the importance and urgency of this matter.

It has come to our attention that intra-state generating utilities in the NER states of Meghalaya, Tripura, Mizoram, Arunachal Pradesh, and Nagaland have yet to complete their registration process in NOAR. As of now only intra state generating plants of Assam have registered in NOAR.

In alignment with the directive received from NLDC (Annexure 2.17), we kindly urge all NER intra-state generating utilities to prioritize and expedite the registration process at the earliest.

Deliberation of the sub-committee

Forum urged all the intra-state generating utilities to register on the NOAR portal at the earliest.

Agenda from KMTL

2.18. Common pool of ERS proposed by Kohima Mariani Transmission Limited (KMTL) : -

- KMTL operates a 254 km transmission line across Assam, Nagaland, and Manipur, with over 60% of the route passing through hilly and highly vulnerable terrain. Additionally, ongoing ethnic conflicts in Manipur have disrupted ground patrolling in certain areas, as communicated to the Manipur authorities and shared with your office.
- As a private entity, KMTL is not eligible for ERS procurement under the PSDF fund, and the high cost of ERS systems makes independent maintenance challenging. In light of this, KMTL propose creating a common pool of ERS equipment in the North Eastern region, managed by PGCIL and NETC. This pool would ensure the efficient utilization of resources and provide access to ERS equipment for all stakeholders including KMTL, during emergencies.
- Request to formalize this arrangement through a Memorandum of Understanding (MoU) to ensure seamless access to the common ERS pool when needed.

Deliberation of the sub-committee

KMTL requested the forum to allow KMTL to enter into agreement with other transmission utilities in order to arrange the ERS for emergency situations, in light of the disproportionately high-cost burden vis-à-vis the total line length. The forum opined that as per the MoP Guideline on ERS as mentioned in the agenda item 2.2 above, KMTL, with Transmission line length of less than 500Kms may enter into such arrangements to ensure availability of ERS. The forum advised KMTL to take up the matter bilaterally with other transmission utilities like Powergrid, NTL, NETC and Sterlite

2.19. Request for Administrative/Police protection during routine patrolling of 400 KV D/C Twin Imphal (Manipur) to New Kohima (Nagaland)Transmission Line.

The transmission line passes through Imphal West, Kangpokpi, and Senapati districts in Manipur, Regular patrolling of this transmission line is critical to ensuring its operational integrity, especially given its importance to the entire Northeastern region.

However, due to the current situation in Manipur, we are unable to patrol several sections of the line, specifically from Tower No. 74 to 84 in Imphal West and Kangpokpi districts, which poses a significant operational risk.

Also, communication link through OPGW between New Kohima to Imphal got breakdown in this area and we are not able to rectify the fault due to current situation.

Deliberation of the sub-committee

MS NERPC stated that a letter will be written from NERPC secretariat to relevant authorities to provide necessary support to KMTL to ensure patrolling and maintenance of the line in Manipur.

2.20. 220 KV downstream Transmission Line connection to KMTL, Zhadima Substation.

There are many things need to be clarified by DoP, Nagaland:-

- Installation of 02 Nos. of Energy Meter for 220 KV downstream Transmission Line.
- Installation of PLCC & DTPC Panel.
- Installation and connectivity between PLCC/DTPC & FOTE Panel.
- Relay setting for 220 KV Transmission Line.
- AC & DC Power supply cable connection for PLCC/DTPC/ FOTE Panel

Deliberation of the sub-committee

Regarding installation of energy meters, Nagaland informed that the meters are yet to be installed at Zhadima end. KMTL informed that the meter installation is pending at their end. Forum opined that since the bays at New Kohima SS belongs to KMTL, KMTL should install the Energy meters. NERLDC suggested KMTL to give requisition request through mail to NERLDC

Regarding PLCC and DTPC, DoP Nagaland updated that the DTPC will be commissioned next month. The status on PLCC will be provided after consulting with transmission wing.

Regarding installation and connectivity between DTPC and FOTE Panel, DoP Nagaland updated the work will be completed shortly

Regarding the relay settings, DoP Nagaland updated that the settings will be sent to NERPC shortly for vetting.

Regarding Power supply cable connection for PLCC/DTPC/FoTE panel, DoP Nagaland updated that the work is under process and will be completed shortly.

2.21. Replacement of existing 33 /0.415 V Transformer with 11/0.415 V at 400/220kV New Kohima SS

Letter received from DoP Nagaland (attached) on 22nd April 2025 regarding the replacement of existing 33 /0.415 V Transformer with 11/0.415 V or construct new 33 KV Transmission line from 220/132/33 KV Zhadima Substation to KMTL substation.

400/220 kV GIS Substation at New Kohima, Nagaland, was developed under the Tariff-Based Competitive Bidding (TBCB) route and has been fully operational since its commissioning in December 2020. The additional requirement has been raised by DoP Nagaland will have huge cost implication

Deliberation of the sub-committee

Forum noted the concern of KMTL. Also, representative from DoP Nagaland informed that the said proposal was agreed under RDSS Scheme. MS NERPC stated that the matter can be discussed separately along with Nagaland DISCOM for further action.

2.22. Frequent tripping of 400kV New Kohima to Mariani Transmission Line

Frequent tripping of 400kV New Kohima to Mariani Transmission Line (circuit I & II) observed due to massive fire done by local villagers in the month of march 25 & April 25. Line tripping details mention below: -

S. No	Date of tripping	From	To	Hr	Min	Line detail	CKT no.	Reason	Remarks
1	05.03.2025	15:38:16	17:33:59	1	55	400kV New Kohima to Mariani -1 TL	I	Line was tripped due to massive fire by local villagers near tower 324 of Mariani line	NERLDC Code -312
2	05.03.2025	15:38:16	17:34:36	1	56	400kV New Kohima to Mariani -2 TL	II	Line was tripped due to massive fire by local villagers near tower 324 of Mariani line	NERLDC Code -313

3	28.03.2025	12:48:19	15:07:23	2	19	400kV New Kohima to Mariani -1 TL	I	Line was tripped due to massive fire by local villagers near tower 361 of Mariani line	NERL DC Code - 1935
4	28.03.2025	12:48:29	15:13:09	2	24	400kV New Kohima to Mariani -2 TL	II	Line was tripped due to massive fire by local villagers near tower 361 of Mariani line	NERL DC Code - 1936
5	29.03.2025	11:13:48	14:38:30	3	24	400kV New Kohima to Mariani -1 TL	I	Line was tripped due to massive fire by local villagers near tower 342 & 343 of Mariani line	NERL DC Code - 2012
6	29.03.2025	11:14:30	14:48:35	3	34	400kV New Kohima to Mariani -2 TL	II	Line was tripped due to massive fire by local villagers near tower	NERL DC Code - 2013

								342 & 343 of Mariani line	
7	26.04.2025	15:13:00	18:38:03	3	25	400kV New Kohima to Mariani -1 TL	I	Line was tripped on Phase to Phase fault in Y-B Ph due to massive fire by local villagers near tower 328-329 of Mariani line	NERLDC Code -1797
8	26.04.2025	15:04:19	18:41:28	3	37	400kV New Kohima to Mariani -2 TL	II	Line was tripped on Phase to Phase fault in Y-B Ph due to massive fire by local villagers near tower 348-349 of Mariani line	NERLDC Code -1798

Deliberation of the sub-committee

Forum opined that making the Citizen aware about the dangers associated with such actions in coordination with District authorities by the transmission utilities will help in mitigating the fires near the lines. Forum

urged KMTL to organise awareness programs on the matter for the common people and NERPC secretariat will also write to District authorities.

Additional agenda

2.23. Submission of Healthiness Status of Under Frequency Relays (UFRs)

As you are aware, the North Eastern Region (NER) grid incorporates multiple islanding schemes, which are critical for maintaining grid stability during contingencies. These schemes are primarily based on the operation of Under Frequency Relays (UFRs).

For the successful operation of the islanding schemes and protection scheme, it is imperative that the designated UFRs are in a healthy condition and functioning correctly. In this regard, all utilities are kindly requested to submit the healthiness status of their respective UFRs, based on recent tests conducted to assess their performance. Please ensure the following while submitting report to NERPC and NERLDC:

- Clearly indicate the location and identification of each UFR.
- Mention the date and methodology of the last healthiness test.
- Include test results and any corrective actions taken (if applicable)

Deliberation of the sub-committee

Forum requested all the utilities to periodically test the healthiness of UFRs, used in AUFLS scheme and Islanding schemes, under their domain and send the reports to NERPC and NERLDC. The Forum also advised NERLDC to prepare a testing calendar for UFR testing, which may be jointly witnessed by NERPC and NERLDC.

2.24. Nomination of Nodal Officer and Feedback on Resource Adequacy & Forecasting Assessment

In reference to the discussions held on 24.02.2025, convened by Hon'ble CERC regarding Suo-Motu Petition No. 9/SM/2024, it has been decided to establish a structured feedback mechanism to enhance the Resource

Adequacy and Forecasting assessment process between NERLDC and the States.

In this regard, it is requested to nominate a nodal officer from your SLDCs and DISCOMs who will serve as the primary point of contact for coordinating with NERLDC on matters related to resource adequacy and forecasting, including timely data submission, assessment review, and providing constructive feedback for process improvement.

It was requested to provide the details of the nominated officer in the following format:

1. Name
2. Designation
3. Contact Number
4. Email ID

However, only Nagaland, Mizoram, and Meghalaya have submitted the details of their respective nodal officers. States who are yet to provide the same are requested to do so at the earliest.

Additionally, feedback on the Resource Adequacy and Forecasting assessments circulated by NERLDC to all states is also requested to facilitate further improvement in the assessment process. States are also advised to closely coordinate with their respective DISCOMs to jointly analyse and review the assessments for comprehensive validation and better alignment.

Deliberation of the sub-committee

Forum requested all the SLDCs and DISCOMS to provide the details of Nodal officers at the earliest.

2.25. Workshop on "addressing the various challenges faced by the States in meeting the Operational Planning for safe, secure, and Reliable integrated operation of the power system" under Suo-Motu Petition No. 9/SM/2024

To assess the preparedness of the system operators (i.e. State Load Despatch Centres (SLDCs), Regional Load Despatch Centres (RLDCs) and National Load Despatch Centre (NLDC) and the other stakeholders to meet the situation arising out of the abrupt increase in demand due to seasonal variations and for undertaking the preventive measures as may be required to be taken, the

Commission issued SUO Motu Order No. 9/SM/2024 dated 7th October, 2024.

In this regard Member (Technical), CERC has submitted a Report to the Commission on 29.04.2025. Following key issues have emerged as per the Report dated 29.04.2025, specifically with respect to NER States.

a) Acute shortage of manpower in the NER SLDCs
b) Reserve estimation and allocation process by NLDC and procurement and maintaining the reserves by the NER States (
c) Submission of Resource Adequacy data by the NER SLDCs
d) Preparedness of the SLDCs to meet the deficit during power shortages conditions.

Hon'ble Commission is organising a workshop on 24th May 2025 in the conference Room of NERLDC. CERC will hold detailed deliberations with senior level officers of the State Government and officers from NLDC, RLDCs, RPCs, SLDCs, State Discoms and State Transcos.

It is requested to provide the present manpower status at SLDCs and action taken to meet any deficit during the upcoming months.

Deliberation of the sub-committee

Forum requested all the SLDCs to provide the required data at the earliest and attend the workshop along with senior officers.

2.26. Submission of Documents for Emergency Preparedness as per Meeting Dated 10-05-2025

As per the decisions taken during the Emergency Preparedness Meeting held on 10-05-2025, it was agreed that the following documents must be maintained in hard copy at the respective control rooms. Additionally, the same documents are to be submitted to NERPC and NERLDC for record and coordination purposes:

(a) Detailed Operating Procedures

(b) System Restoration Procedures

(c) Reactive Power Management and Voltage Control Guidelines

(d) List of Important Grid Elements

These documents are essential for ensuring effective system operation and coordination during emergency situations, in line with the provisions of the Indian Electricity Grid Code (IEGC) 2023.

Deliberation of the sub-committee

MS NERPC exhorted all the SLDCs to submit the above documents to NERPC and NERLDC at the earliest.

3. PART-C: METERING ITEMS

3.1. Time Drift Issues:

Time drift in SEMs may result in computational errors in Regional energy accounts & Weekly Loss. All constituents in whose premises the meters are installed are required to take corrective action for the same.
Time drift of more than 2 mins observed in the following meters:

S No.	ENTITY	FEEDER NAME	METER NO.	TIME DRIFT	REMARKS
1	MANIPUR	132 kV Ningthoukhong-PGCI-3	NE-0152-A	Around 05 mins	
2	MANIPUR	132 kV Ningthoukhong-PGCI-2	NE-0151-A	Around 2 mins 25 secs	
3	MANIPUR	132 kV Ningthoukhong-PGCI-1	NP-9946-A	Around 06 mins	Line Under Shutdown

Deliberation of the sub-committee

Manipur informed that time drift rectification process has started from 15th May and by next OCC meeting all drifts will be corrected.

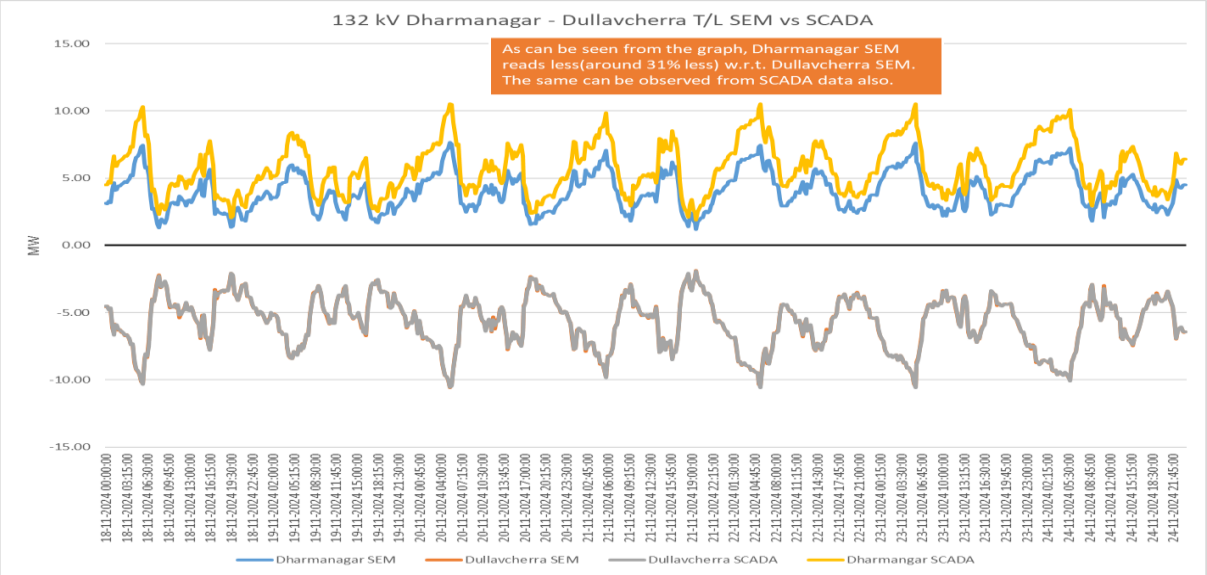
3.2. Issue in SEM data of 132 kV Dharmanagar end of Dullavcherra Feeder:

It has been observed that the data received from Dharmanagar end is erroneous and the same neither matches with SCADA data nor with data from Dullavcherra end. Several follow ups have been initiated regarding the matter with utility, however, matter is yet to be resolved.

It is also to be noted that since 222nd OCCM, data from Dharmanagar S/S has not been received by NERLDC from said substation. Issue with Vinplus Software had been mentioned by Tripura in the previous OCCM.

In the 225th OCCM, Tripura apprised the forum that DCD data have been received at Ambassa and Dharmanagar substations. However, due to technical issue with Vinplus software, SLDC Tripura is unable to transfer the data to laptop. The forum advised Tripura to carry the laptop along with DCD data to Kumarghat substation where PGCIL will help Tripura to resolve the issue.

Tripura is hereby requested to provide updates on the issue and also provide contact details of personnel stationed at Dharmanagar S/S for future communication.



Deliberation of the sub-committee

Tripura updated that issue will be tentatively resolved by next week.

3.3. Issue in receipt of data from 132 kV Tipaimukh S/S

Weekly SEM data from 132 kV Tipaimukh (Manipur) S/S is essential for accounting of Manipur Drawal. However, SEM data for said substation is not

being received. On query, downloading data from DCD to laptop has been failing.

In 223rd OCCM, Forum requested Powergrid to assist Manipur to rectify the issue. Manipur to send Laptop along with DCD available at Tipaimukh to Aizawl PG S/S for the same.

In the 224th OCCM, Manipur informed that the equipment is ready to be dispatched but due to Law-and-Order condition in the state, movement is restricted. They are unable to send laptop along with DCD to Aizawl S/S. Manipur agreed to do the same as soon as possible.

In the 225th OCCM, Manipur apprised the forum that the DCD data and the laptop are in Manipur and are inaccessible due to the current law and order situation in Manipur. Manipur further apprised the forum that the laptop has developed technical problems and is not functional currently. Member Secretary, NERPC advised Manipur to repair the laptop and resolve the issue at the earliest.

Deliberation of the sub-committee

Manipur updated that the Laptop issue will be resolved by next week.

3.4. Issue in Receipt of Data data from Udaipur S/S:

Weekly SEM data from 132 kV Udaipur(Tripura) Substation is not being received since replacement of old LnT Meter with Secure Make Meter on 23-12-2024(for 132 kV Udaipur end of Palatana T/L). In 222nd OCCM, the forum advised Tripura to resolve the issue by next OCC meeting. Data from the replaced meter is yet to be received by NERLDC.

In the 225th OCCM, Tripura apprised the forum that DCD data has been received at Udaipur substation. However, due to technical issue with Vinplus software, SLDC Tripura is unable to transfer the data to laptop. The forum

advised Tripura to carry the laptop along with DCD data to Kumarghat substation where PGCIL will help Tripura to resolve the issue.

Deliberation of the sub-committee

Tripura updated that the issue will be resolved by next OCC meeting.

3.5. Receipt of SEM data from 132 kV Budhjungnagar, 132 kV Ambassa, 132 kV Dharmanagar, 132 kV PK Bari & 132 kV SM Nagar (TSECL) Substations:

As per 175th OCCM dated 18th Feb 2021 agenda D.12, Indigrid and Powergrid NERTS were given responsibility to collect and send SEM data on weekly basis for Tripura owned substations viz 132kV Ambassa S/s,132kV Budhjungnagar S/s, 132 kV PK Bari S/s and 132 kV SM Nagar S/s for the interim period, due to shortage of DCDs. The relevant extracts are furnished below

Quote:
"The forum noted that due to the existing shortage of DCDs, the same cannot be provided to Tripura for some time for new locations. This creates difficulty in getting SEM data from Budhjangnagar, Ambasa, PK Bari and SM Nagar. The Matter was discussed and it was decided that during the interim period Powergrid NERTS will provide readings from PK Bari and SM Nagar of Tripura and Sterlite will provide readings from Budhjangnagar and Ambassa of Tripura."
Unquote
As per IEGC 2023 Clause 49(12)(e) entity shall be responsible to send weekly meter data to RLDC. The relevant extracts are furnished below

Quote:
"Entities in whose premises the IEMs are installed shall be responsible for (i) monitoring the healthiness of the CT and PT inputs to the meters, (ii) taking weekly meter readings for the seven day period ending on the preceding Sunday 2400 hrs and transmitting them to the RLDC by Tuesday noon, in case such readings have not been transmitted through automatic remote meter reading (AMR) facility (iii) monitoring and ensuring that the time drift

of IEM is within the limits as specified in CEA Metering Regulations 2006 and (iv) promptly intimating the changes in CT and PT ratio to RLDC."

Unquote

In 221st OCCM, Tripura confirmed the receipt of 3 nos. of DCDs and that the same have been dispatched to Dharmanagar, Ambassa and SM Nagar(State) S/Ss. Tripura further intimated that the remaining works shall be completed by 21/12/2024 and the meters shall be reporting successfully from 23/12/24.

In 225th OCCM, forum requested Tripura to resolve the issue by next OCC meeting.

However, data is yet to be received from concerned utilities on weekly basis.

Deliberation of the sub-committee

Tripura updated that the issue will be resolved by next OCC meeting.

4. PART-D: ITEMS FOR UPDATE/FOLLOW-UP

4.1 Implementation/Review of Islanding schemes of NER:

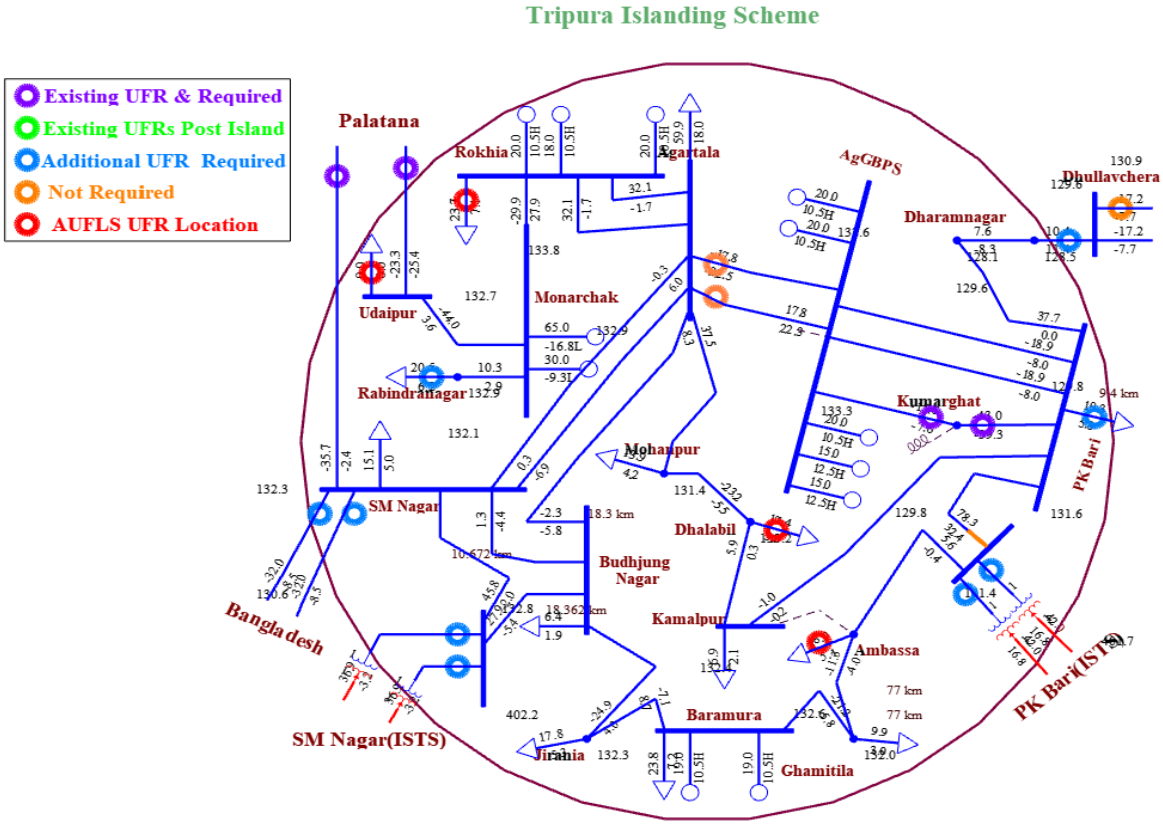
As per Clause 10 of the Central Electricity Authority (Grid Standards), Regulations, 2010: "Islanding Schemes- (1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system fromtotal collapse in case of grid disturbance. (2) The Entities shall ensure proper implementation of the Islanding Schemes". In this regard the Islanding schemes which are being planned/have been implemented in NER are mentioned below, along with the updates from 225th OCCM.

A. Guwahati Islanding Scheme

Assam updated that modified DPR has been sent to PSDF.

B. Tripura/Agartala Islanding Scheme

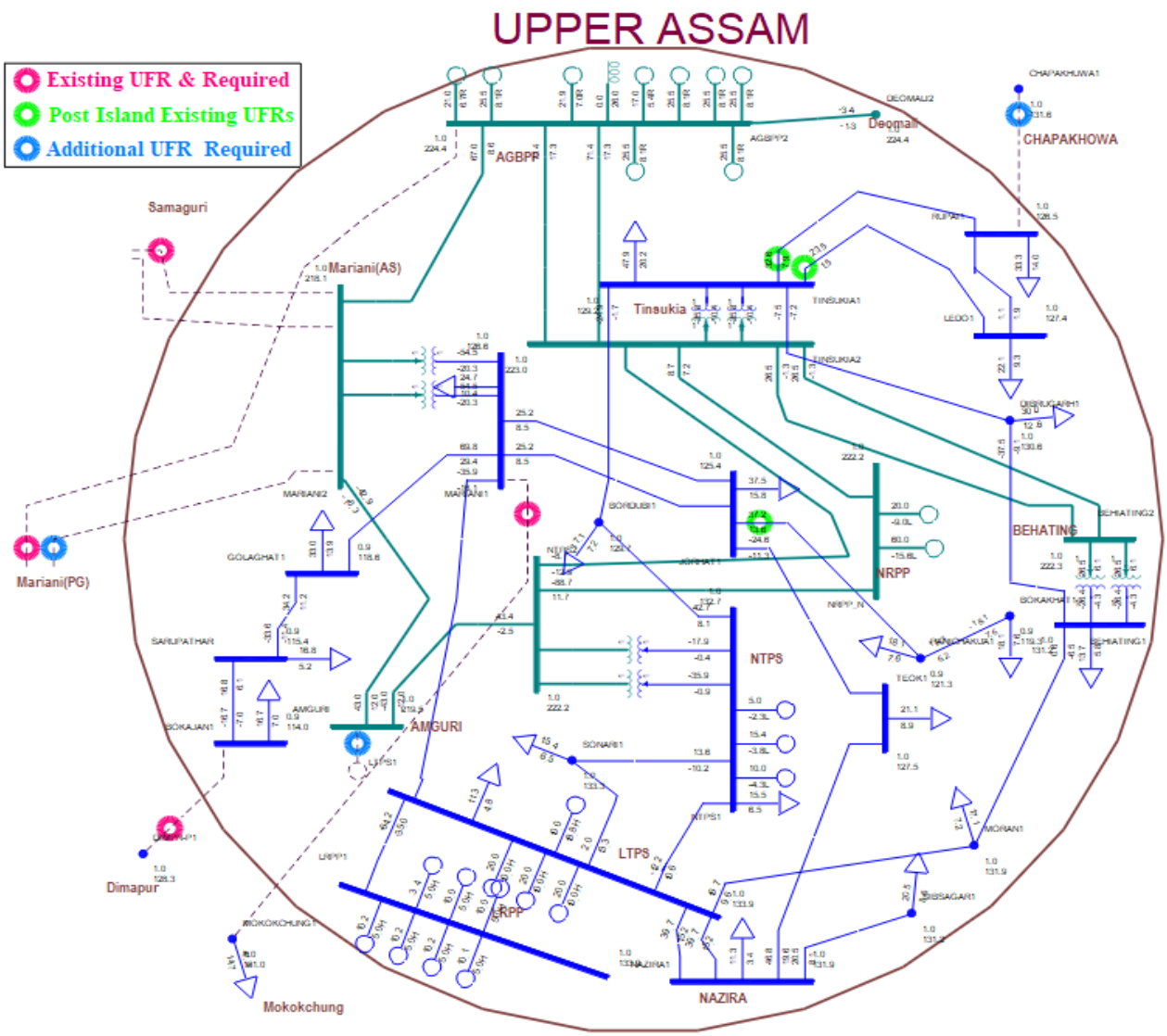
NERLDC informed forum that the scheme shall be finalised by next week i.e in May 2025



C. Upper Assam Islanding Scheme

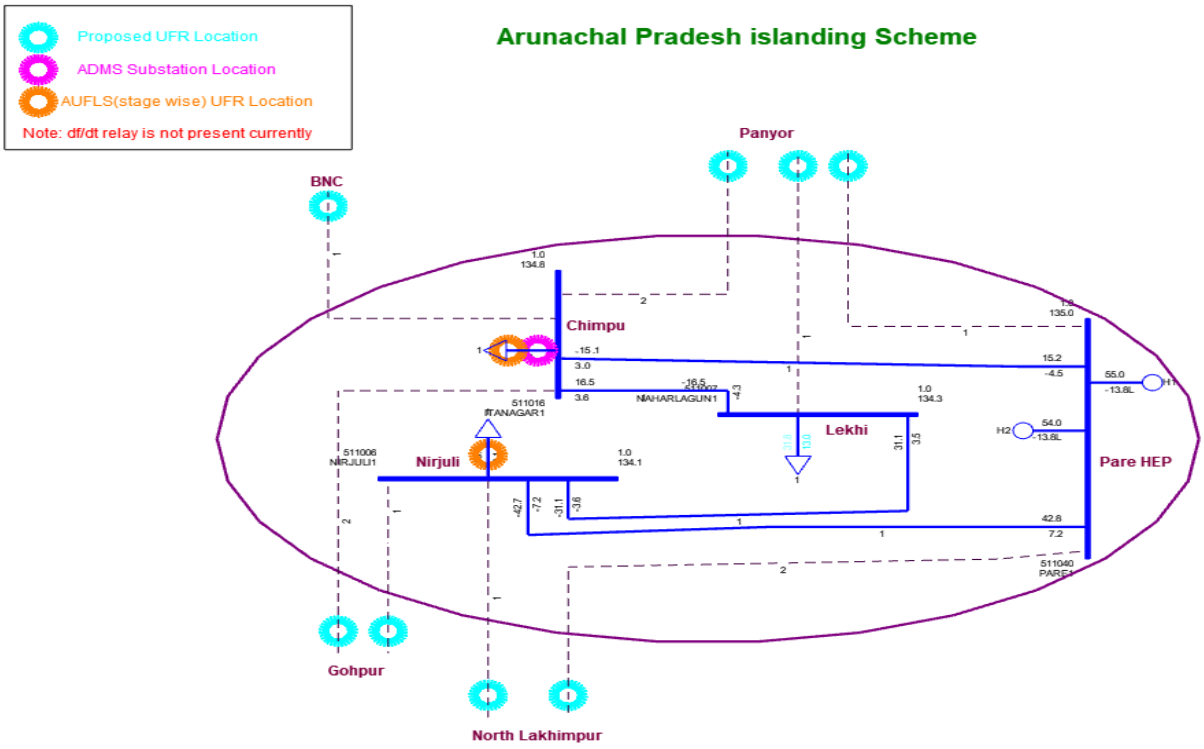
Assam informed the forum that relay settings have been updated at Tinsukia. However, update of relay settings is pending in Jorhat.

Relay setting at NEEPCO end have been updated.



D. <u>Itanagar Islanding Scheme</u>

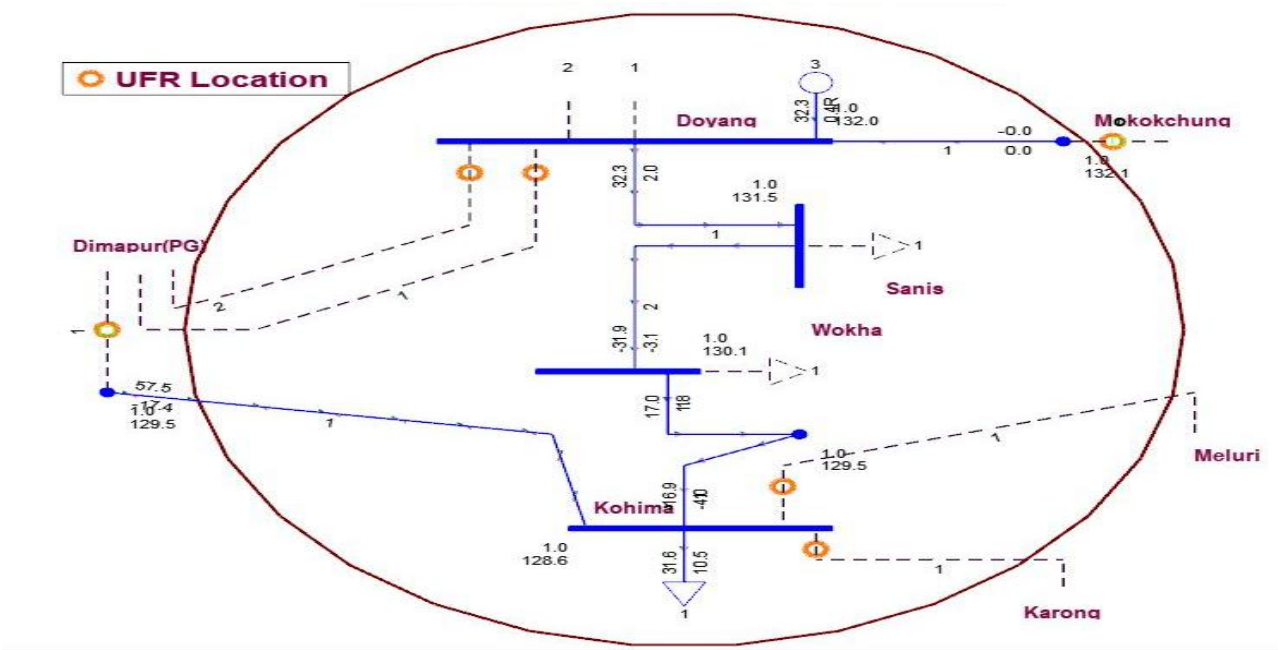
Arunachal Pradesh informed the forum that the feeder change at Lekhi and implementation of UFR have been completed. NERLDC suggested to change under frequency relay settings at Pare machine to 47.5 Hz with a time delay of 2 seconds. NEEPCO agreed to take up the matter with OEM.



E. <u>Kohima Islanding scheme</u>

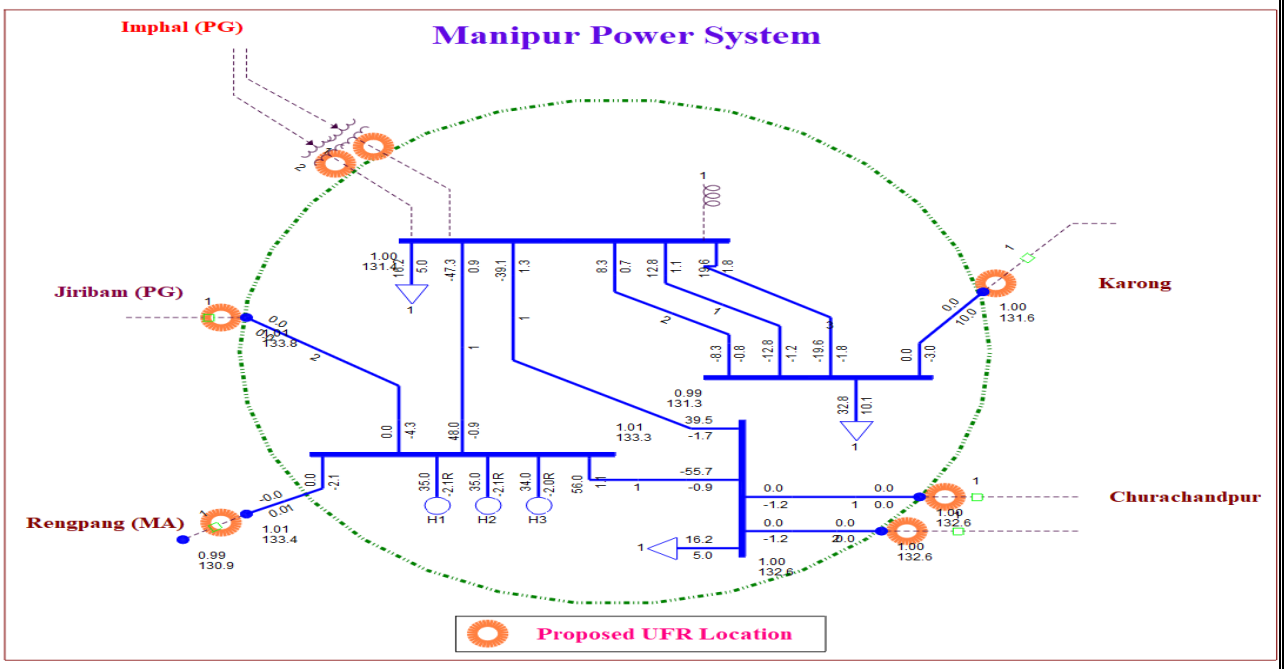
DoP Nagaland updated that the DPR preparation was underway, as they have not received budgetary offer from vendor. MS, NERPC urged DoP Nagaland to take the budgetary offer from a vendor at the earliest so that the same may be got approved in the upcoming RPC meeting.

NEEPCO apprised the forum that dynamic data for Doyang generator has been submitted to NERLDC. NERLDC further apprised that some information is missing in the submitted data and agreed to take up with NEEPCO for the same.



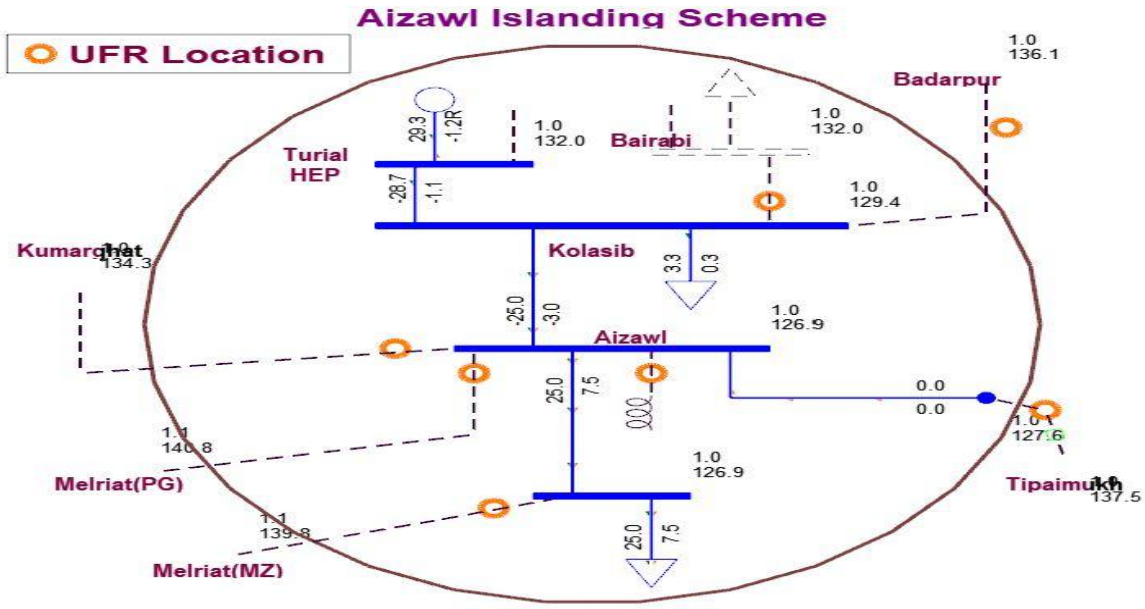
F. Imphal Islanding scheme

NERLDC apprised the forum that data from NHPC Loktak has been received. Dynamic study is going on and is expected to be completed by next OCC meeting.



G. Aizawl Islanding scheme

Mizoram informed that the required load data had been provided to NERLDC. NERLDC informed that the scheme shall be finalized by the next OCC meeting.



H. Meghalaya/Shillong Islanding Scheme

NERLDC informed that Meghalaya has shared the dynamic data for Umium Stage I, Stage II and Stage IV and also for New Umtru.Dynamic study is going on and is expected to be completed by next OCC meeting.

Deliberation of the sub-committee

As updated by NERLDC and utilities in 226th OCC –

Sl. No	Island	Update
1	Guwahati	Being discussed in TESG meetings. Queries raised by TESG being replied
2	Tripura/Agartala	Scheme finalised in meeting held on 16.05.2025. Implementation to be done by Stakeholders
3	Upper Assam	Operational on 10.05.2025

4	Itanagar	Operational on 10.05.2025
5	Kohima	Dynamic study to be done. Stability issue observed due to small units
6	Imphal	Study underway
7	Aizawl	Scheme finalised in meeting held on 08.05.2025. Implementation to be done by Stakeholders
8	Meghalaya/Shillong	Stability issues observed due to small units. Kopili may considered at the place of Umiam generators

4.2 Automatic Under Frequency Load shedding (AUFLS) scheme of NER:

Status as updated in 225th/224thOCCM

Name of the State/utility	**Installation of UFRs**	**Status of mapping**
Ar. Pradesh	Completed	DoP Arunachal Pradesh stated that mapping of feeder at Lekhi SS (Industry feeder, stage 1) completed For rest of the feeders and substations, coordination with GE is underway and will be taken up gradually.
Assam	Completed	Completed
Manipur	UFR installed but not enabled as system integration work is underway, to be completed by Aug'24.	Mapping is pending from substations end, which is being hampered due to Law & Order situation in the State. Also, system integration work is

		pending due to payment issue with M/s GE.
Meghalaya	Completed	Completed
Mizoram	Completed	Coordination with GE is underway for mapping, Mapping has been completed at Shimui substation. Mizoram further apprised that there is problem with SCADA display at Luangmual substation.
Nagaland	Completed	Completed
Tripura	Completed	Tripura apprised the forum that that mapping at Ambassa is still pending due to communication link issue with card. The matter is in progress and will be resolved shortly.

Forum noted the status updated as provided in the above table. NERPC informed that AUFLS quantum has been revised for NER for the FY 2024-25 and presented the revised quantum for load shedding to the forum, which is provided below: –

UFR load shedding for NER States for the FY 2024-25

State	**stg I (MW)**	**Stg II**	**Stg III**	**Stg IV**
Ar. Pradesh	8.659594937	10.39151392	12.12343291	12.12343291
Assam	112.3419494	134.8103392	157.2787291	157.2787291
Manipur	11.54612658	13.8553519	16.16457722	16.16457722
Meghalaya	18.85556962	22.62668354	26.39779747	26.39779747
Mizoram	7.542227848	9.050673418	10.55911899	10.55911899
Nagaland	8.100911392	9.721093671	11.34127595	11.34127595
Tripura	16.85362025	20.2243443	23.59506835	23.59506835

Total	183.9	220.68	257.46	257.46

For FY 2023-24 (already under operation)

State	stg I (MW)	Stg II	Stg III	Stg IV
Ar. Pradesh	10	14	12	10
Assam	90	125	113	115
Manipur	10	10	10	10
Meghalaya	25	25	25	25
Mizoram	5	5	5	5
Nagaland	10	10	10	10
Tripura	15	12.2	21.2	30
Total	165	201	196	205

The forum requested the States to implement the revised load shedding quantum within two months.

As per IEGC provisions, Tripura is requested to provide the MW and CB status data for further mapping activities.

The forum requested RLDC to prepare a feeder-wise report (MW and CB status) for those States that have completed the mapping and present it at the next OCC meeting

Deliberation of the sub-committee

Status as updated in 226th OCCM

Name of the State/utility	Installation of UFRs	Status of mapping
Ar. Pradesh	Completed	DoP Arunachal Pradesh stated that mapping of feeder at Lekhi SS (Industry feeder, stage 1) completed

		For rest of the feeders and substations, coordination with GE is underway and will be taken up gradually.
Assam	Completed	Completed
Manipur	UFR installed but not enabled as system integration work is pending with GE. To be completed by June'25 end	Mapping is pending from substations end, which is being hampered due to Law & Order situation in the State. Also, system integration work is pending due to payment issue with M/s GE.
Meghalaya	Completed	Completed
Mizoram	Completed	Coordination with GE is underway for mapping. SCADA integration of Shimui completed but mapping left due to fibre issue. Coordination with PGCIL required. Mizoram further apprised that there is problem with SCADA display at Luangmual substation due to RTU issue. Issues to be resolved shortly
Nagaland	Completed	Completed
Tripura	Completed	Tripura apprised the forum that that mapping at Ambassa is completed but integration is left, to be completed by

Regarding implementation of revised quantum, Manipur, Mizoram and Tripura left, to be done shortly.

Sub-committee noted as above

4.3 Construction of 2nd transmission line to Tuirial power station of NEEPCO

NEEPCO is facing problem in operating 2x30 MW power station with only one power evacuation line i.e. 132 KV single Circuit Bawklang (Kolasib) - Tuirial

line. The matter has been discussed with Power and Electricity Dept. Govt of Mizoram on various occasions in the past and the Govt. of Mizoram has agreed to construct the same. However, NEEPCO has observed that till date no progress on ground has been made for construction of the second circuit. lt may please be noted that a generating station which is based on reservoir operation cannot operate for long with a single evacuation transmission line and is also not fulfilling the N-1 condition. There should be redundancy in power evacuation system as per the Grid code. It may please be noted that NEEPCO has sufficient numbers of line bays in its switch yard for smooth evacuation as per requirement. It has been observed that during rainy season, in the event of the lone line outage, load throw off of the Units takes place and the reservoir may spill over for non-availability of power evacuation, which is an avoidable national loss. NEEPCO requests through this forum for early construction of the 2nd evacuation transmission line for Tuirial HPS by Mizoram for safe and smooth operation of the Tuirial Hydro Electric power station. In 26th TCC Meeting, Mizoram representative informed that an amount of INR 28 crore has been allocated for the project by the State Govt. Upon the release of government funds, the project is expected to be completed within two years (May'2026). NEEPCO representative requested Mizoram to expedite for early execution of this transmission line being crucial for evacuation of Turial power generation. NERPC to monitor the progress of the project in sub-committee meetings. In the 27th TCC meeting of NERPC, held on 7th November, 2024 at Guwahati, the DOP, Govt. of Mizoram updated that the allocation of Rs. 28 Crore has been received from Govt. of Mizoram for which expenditure sanction is being sought. The matter was deliberated in the 28th TCC/RPC meeting in which_Mizoram apprised the forum that the work is in progress and it is expected to be completed by May'2026. The forum advised Mizoram that efforts should be made to complete the project by December 2025, and NERPC will continue monitoring the progress in sub-committee meetings.

Deliberation of the sub-committee

Mizoram updated that 42 out off 110 towers have been erected, 8 foundations done and target for completion is May'26.

4.4 Monthly Review of LGBR

PARTICULARS (Peak Demand in MW as per LGBR vs Actual)	Feb-25 (LGBR)	Feb-25 (Actual)	Mar-25 (LGBR)	Mar-25 (Actual)	Apr-25 (LGBR)	Apr-25 (Actual)
Arunachal Pradesh	183.18	218	180.30	180	200	172
Assam	1779.00	1647	1979.00	1917	2203	2081
Manipur	268.86	248	246.39	213	234	228
Meghalaya	460.00	352	445.00	343	455	340
Mizoram	181.00	160	149.00	151	143	138
Nagaland	179.00	173	180.00	164	185	176
Tripura (exc. Bangladesh)	292.81	252	304.90	317	384	334
NER DEMAND (exc. Bangladesh)	3173.53	2890	3302.70	3273	3689	3344

PARTICULARS (Energy Requirement in MU as per LGBR vs Actual)	Feb-25 (LGBR)	Feb-25 (Actual)	Mar-25 (LGBR)	Mar-25 (Actual)	Apr-25 (LGBR)	Apr-25 (Actual)
Arunachal Pradesh	98.64	94.26	109.61	94.48	82	86.37
Assam	853.00	795.11	1012.00	945.66	1108	1012.34
Manipur	117.00	93.27	98.00	90.43	94	86.13
Meghalaya	221.00	155.31	223.00	172.39	195	164.13
Mizoram	81.87	60.43	78.76	100.81	62	59.72
Nagaland	76.00	69.76	82.00	73.06	76	75.51
Tripura (excl. Bangladesh)	101.44	123.84	132.23	108.88	180	165.99
NER DEMAND (exc. Bangladesh)	1548.95	1392.60	1735.60	1586.32	1797	1650

LGBR projection for May'25, June'25 and July'25

PARTICULARS (Peak Demand in MW as per LGBR)	May-25 (MW)	May-25 (MU)	Jun-25 (MW)	Jun-25 (MU)	July-25 (MW)	July-25 (MU)

Arunachal Pradesh	217	96	185	93	204	99
Assam	2629	1255	2586	1312	2787	1543
Manipur	247	95	247	105	229	91
Meghalaya	439	184	370	183	401	191
Mizoram	141	63	136	58	141	65
Nagaland	192	88	200	95	205	105
Tripura (exc. Bangladesh)	423	183	380	179	394	205
NER DEMAND (exc. Bangladesh)	4066	1964	3899	2025	4158	2300

Deliberation of the sub-committee

Sub-committee noted the LGBR projections for the months of May, June and July'25 and requested the states to plan for resource adequacy accordingly.

4.5 Non-Functionality of online transfer of elements at Kameng HEP

It has been observed that Kameng HEP reported the inability to perform online transfer of elements at their 400 kV substation, which operates under a Double Main Bus cum Transfer bus scheme, this issue came to light during an emergency shutdown for attending a hotspot on the Bus Coupler isolator connected to Bus-B.

As per the standard protocol, NERLDC Control Room instructed Kameng HEP to carry out the online transfer of all associated elements and proceed with the shutdown of the affected isolator on Bus-B R-phase. However, Kameng HEP expressed its inability to execute the transfer online, citing safety concerns due to high sparking observed in previous attempts. In view of the above, Kameng HEP requested a complete shutdown of both 400 kV buses to facilitate the maintenance activity.induction voltage of approximately 2.2 kV was reported, further reinforcing the safety risk to personnel and equipment.

It is important to note that the Kameng HEP switchyard is configured under a Double Main Bus cum Transfer Bus scheme, which is typically designed to

allow seamless transfer of elements between buses without compromising the continuity of supply to healthy elements. The current limitation in transferring elements online is a cause for concern and needs to be addressed promptly.

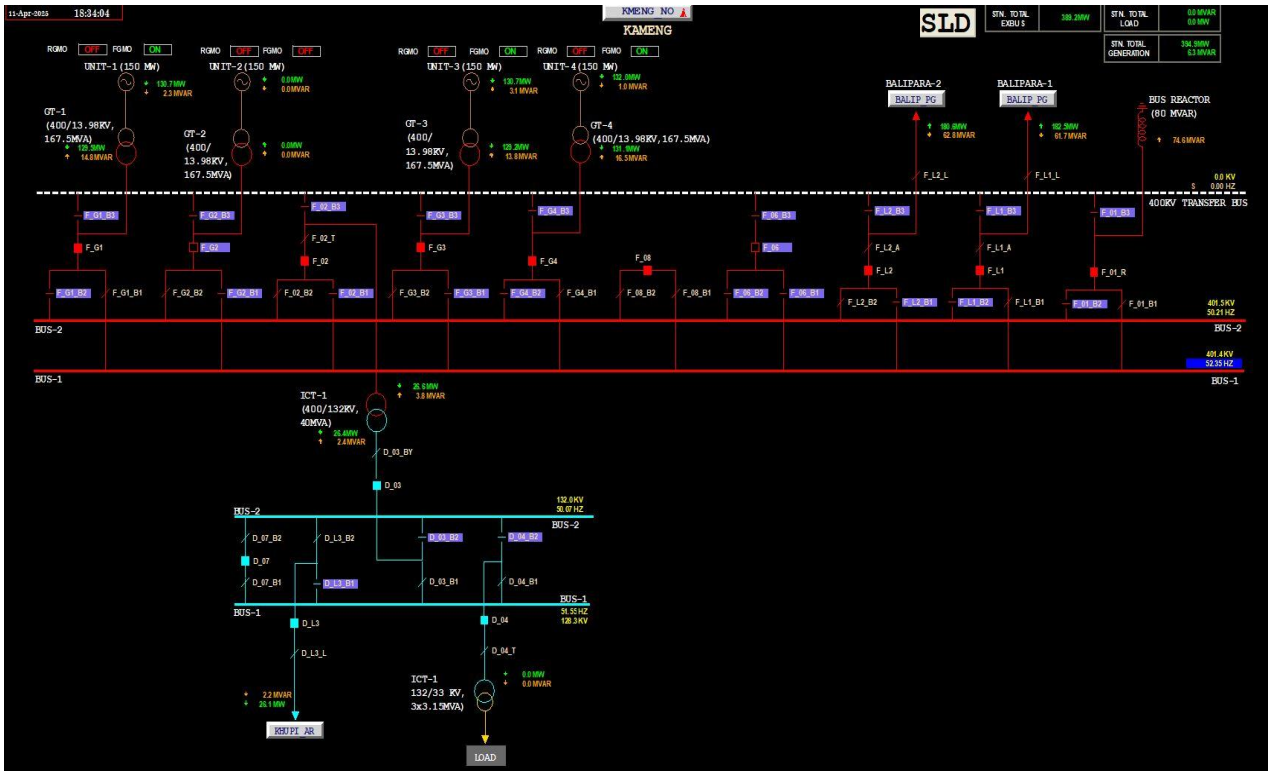


Fig: Kameng HEP Switchyard

Therefore, we request Kameng HEP to take appropriate corrective measures to ensure the reliable and secure operation of the Kameng 400/132 kV switchyard. Given that the Khupi area of the Arunachal Pradesh power system is interconnected with the Kameng system, any unplanned or forced outages at Kameng HEP could severely affect the reliability and stability of the entire North Eastern Region (NER) power grid.

In 225th OCCM, NEEPCO apprised the forum that flashover across isolators have been observed in the previous attempts which may cause safety risks to persons and equipment. He added that the humid weather, which is persistent in the area, is the main reason for the flashover.

NEEPCO requested that online transfer may be attempted during sunny weather in coordination with NERLDC. Forum agreed to the suggestion of NEEPCO. The matter will be taken up the OEM if the issue persists after trial in sunny weather.

Deliberation of the sub-committee

The forum noted that as discussed in the 225th OCC meeting, NEEPCO was to first attempt the transfer in Sunny weather and if the issue persisted, OEM had to be consulted. Further, MS NERPC requested NEEPCO to carry out the exercise at the earliest and the matter will be taken up regularly in the OCC meeting.

4.6 Status Update and Revival Plan for Long-Outage NER Generators & Transmission Lines

The following NER generators & transmission lines have been under outage since long time. Considering the increasing demand trend and reliable power supply in the Region, respective utilities are requested to intimate the updated expected date of revival & take necessary action to restore the mentioned units & lines at earliest:

Generating Units:

As updated in 226th OCC meeting

S. No.	Element Name	Outage time	Reason	Expected date (as updated in 226th OCCM)
1	Khandong Unit I	10:45 Hrs of 26-03-2022	Flash flood of reservoir causing submergence of the Khandong station	Khandong Unit I-May 2025
2	Khandong Unit II	10:45 Hrs of 26-03-2022		Khandong Unit II-July 2025

3	LTPS Unit 7 (20 MW)	17:08 hrs of 08-04-2024	High Vibration issue in Bearing Block-4 turbine bearing of gas turbine	Spare not available, waiting for OEM reply. Process may take significant time.
4	Baramura Unit 5 (21MW)	20:17 Hrs of 26-03-2024	Outage due to low gas pressure.	Machine Ok. Gas availability issue.
5	Baramura Unit 4	23:20 Hrs of 05-06-2024	gear box issue, leakage in auxiliary of gear box, display of control unit is not working due to suspected card issue	Baramura Unit 4. Tripura apprised that there is technical problem in rotor. Nonfunctional due to non-availability of gas. Forum advised to resolve rotor issue in the unit.
6	Rokhia Unit 8	22:13 Hrs of 02-05-2024	Hand Tripped due to low Gas Pressure. Issue of turbine bearing leakage observed.	In service. Gas constraint issue. Advised to swap units and confirm the healthiness of all machines. Machines may run alternatively in order to maintain healthiness
7	Rokhia Unit - 7	14:06 Hrs of 06-11-2024	Leakage in Heat Chamber	In service. Gas constraint issue
8	Kameng Unit 2	07:31 Hrs of 17-06-2024	Damage in the stator core & bar, and also on rotor poles due to	June-2025

			dislodging of 1no. V-block	

Transmission Lines:

As updated in 226th OCC meeting

S. No.	Element Name	Outage time	Reason	Expected date (as updated in 226th OCCM)
1	400 kV Imphal - Thoubal I	18-10-2021	Tripped on DP, ROW issue.	RoW issue. Law and order situation is fragile.
2	132 kV Kohima - Meluri	27-09-2023	S/D taken by Kohima trans. Div. for dismantling of Tower no. AP 130	Line charged 26.04.2025
3	132 kV Jiribam-Rengpang	17-11-2023	Tripped on Earth fault	Tower shifting required due to NHIDCL work. Resurvey done in 1st week of May'25. 16 towers affected. Revival will take significant time.
4	132kV Ningthoukhong - Churachandpurckt 1	04-08-2024	Z-1, 18.5 km, O/C	Elements under outage for more than 6 months and as elements is under intra-state

				jurisdiction, SLDC may follow their FTC procedure (SIO etc may be obtained) and copy may be given to NERLDC.
5	132 kV Imphal-Ningthoukhong line 1	13-02-2025	Stringing and termination of diverted SC 132kV Leimatak-Mao line (MSPCL) from existing tower no. 83 to tower no. 101 (to avoid infringement with proposed Imphal Railway Station under Jiribam-Imphal New Railway line on turnkey basis). The Railway diversion reference is for the old line namely 132kV Leimatak-Ningthoukhong-Yurembam-Mao which is now 132kV Leimatak-Ningthoukhong-Imphal PG-Yurembam-Karong line. The diversion	However. PTCC clearance pending from Defence department. Letter sent to Delhi.

			portion presently considered is from tower loc no. 83 to 101 of 132kV Imphal PG - Ningthoukhong line ckt 1.	
6	132kV Srikona – Panchgram	14-01-2019	-	Survey for rerouting in process.

Sub-committee noted as above

4.7 Weak Infeed to Rangia Area of Assam Power System

Currently, the Rangia area of the Assam power system is primarily supplied through the 220 kV Rangia-BTPS D/C and the 132 kV Rangia-Montanga line. However, the loading on the 220 kV Rangia-BTPS D/C often does not comply with N-1 contingency requirements, particularly during peak demand periods. The tripping of any one circuit of the 220 kV Rangia-BTPS D/C could result in grid disturbances in the region.

Additionally, both the Rangia and Bongaigaon areas of the Assam power system are experiencing severe low voltage issues.

Furthermore, a high loading of 84 MW was observed on the 132 kV Rangia-Montanga line, as discussed in the 219th OCC Meeting held in September 2025. Given these concerns, an update on the status of the capacitor bank is requested for discussion in the forum.

The situation is reaching an alarming stage, particularly during the summer peak, as voltage levels in these areas frequently fall below the IEGC-prescribed band. In light of this, the AEGCL team is kindly requested to take immediate action to address these issues and ensure system reliability.

As per the 224th OCC forum advised Assam and NERLDC to hold an internal meeting for implementation of SPS as suggested in the meeting.

Regarding the capacitor banks at Rangia, AEGCL informed that the same will be ensured by April'25. AEGCL added that the capacitor banks will be ensured at Nalbari and Bornagar by May'25.

AEGCL may update

AEGCL informed that Capacitor banks at Rangia will be ensured within a week, at Nalbari, within a month and at Bornagar it will take some time.

Regarding implementation of the SPS, NERLDC updated that same is yet to be enabled. Forum urged AEGCL, SLDC Assam, APDCL and NERLDC to implement he SPS at the earliest.

Regarding bus sectionalization, AEGCL updated the work will be done during as shutdown supported by APDCL.

Sub-committee noted as above

4.8 Mock Black Start of Units in compliance with IEGC:

As per IEGC Clause 34 (3), The user shall carry out a mock trial run of the procedure for different sub-systems including black-start of generating units along with grid forming capability of inverter based generating station and VSC based HVDC black-start support **at least once a year** under intimation to the concerned SLDC and RLDC.

Accordingly, Mock Black Start of the following generating plants were conducted for the FY 2024-25:

Sl. No.	**Name of Power station**	**Date of Mock exercise**
1	AGBPS GTG 4	14-05-2024
2	Kopili Unit 1, 3 & 4	Completed (U I & III 09th March 25 & U II & IV 10th March 25)

3	AgGBPS GTG 2	11-09-2024

All utilities are requested to submit the latest status of planning related to mock black-start trials of ***all units*** that are pending or yet to be conducted and to complete these activities within FY 2024-25 to ensure compliance with IEGC.

Mock Black Start of the following generating plant are pending:

Sl. No.	**Name of Power station**	**Last date of Mock exercise**	**Expected date of Mock exercise**
1	Doyang HEP	12-05-2023	Unit II Completed on 04/04/2025.
2	Khangdong Stg-2 HEP	-	November-2025
3	Kameng HEP	-	November-2025
4	Loktak HEP	31-07-2023	May-2025
5	Pare HEP	10-01-2024	November-2025
6	Panyor HEP	30-05-2023	May-2025
7	Turial HEP	-	Completed on 08/042025.

Deliberation of the sub-committee

MS NERPC exhorted the concerned generating utilities to carry out the exercise as early anbs possible.

4.9 Urgent Review of Online Element Transfer at PLHPS

The Bus Scheme of PLHPS at the 132 kV level is a Double Main scheme, as confirmed via email. In this type of bus arrangement, the online transfer of elements from one bus to another can be performed seamlessly without any interruption in power flow.

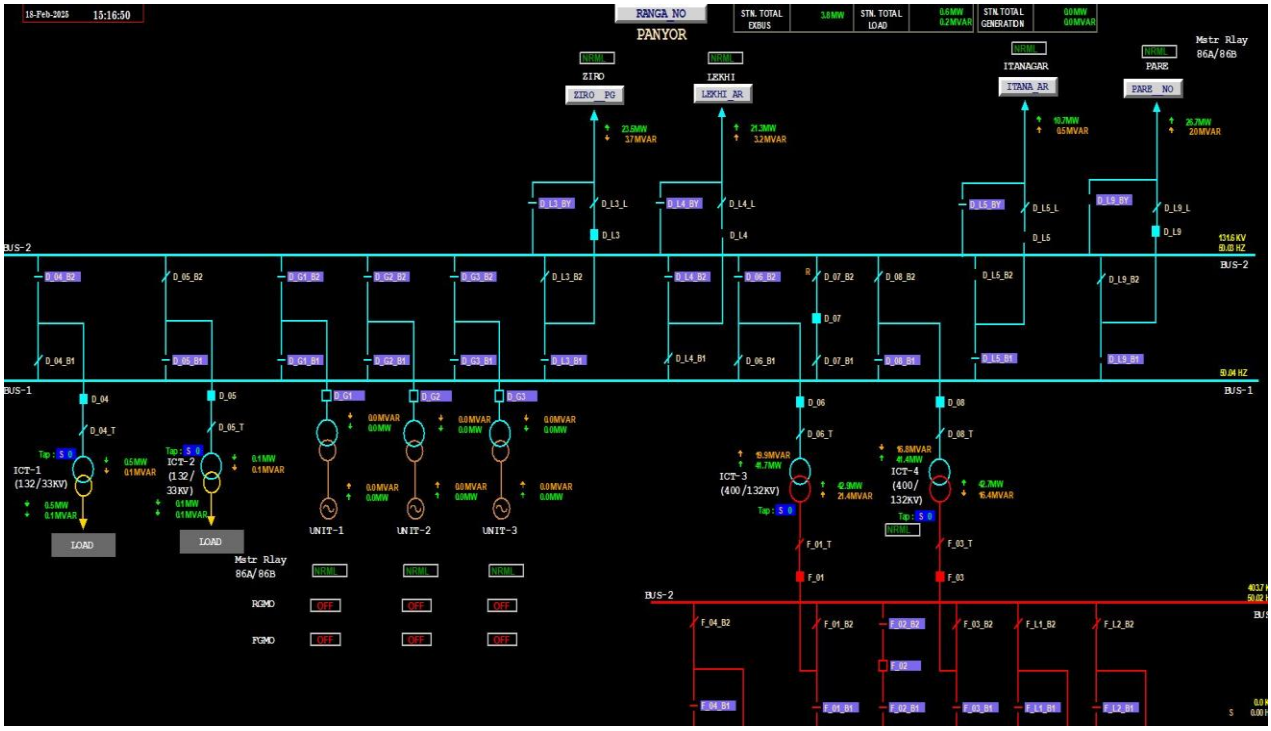
As per the decision of the previous OCC forum, NERLDC requested PLHPS to transfer of an element to another bus on January 28, 2025, to facilitate the

testing and verification of the healthiness of the non-energized element. However, in response to this request, Panyor NEEPCO stated that the existing scheme of PLHPS does not permit the online switching of isolators and that such an operation has never been carried out since the commissioning of the station.

This issue has already been raised with the NEEPCO team, highlighting that online bus transfers of elements are being successfully performed at multiple stations within the NER Grid, including AgGBPS, which is also owned by NEEPCO. However, PLHEP executives have consistently denied such operations, citing that they have never been practiced at their station.

It is important to note that with the commissioning of the 132 kV Roing-Chapakhowa D/C line and the increasing industrial load in the Pasighat area, the 132 kV Panyor-Ziro-Daporijo-Basar-Along-Pasighat-Roing-Chapakhowa link has become vital for Arunachal Pradesh and Assam power systems.

Given the importance of ensuring system reliability, a review of the non-transfer of elements at PLHPS is strongly recommended. If online element transfers are indeed not feasible under the current setup, experienced personnel should be consulted to explore possible solutions and address the issue effectively.



In 225th OCC meeting, NEECO informed that there is alignment issue with isolator which is hampering online transfer of the elements. He added that they are expediting the resolution of the matter at the earliest.

Deliberation of the sub-committee

Forum opined that ensuring the online element transfer facility at the station is critical for reliable operation of the grid and urged NEEPCO to present a plan for rectification/replacement of the isolators before next OCC meeting.

4.10 Submission of Dynamic Model for ±800 kV MTDC Agra-BNC-Alipurduar

As you are aware, GRID-INDIA is responsible for ensuring the secure and reliable operation of the Indian power system. A critical aspect of this responsibility involves conducting system studies and power system stability simulations to proactively implement measures for grid security.

In this regard, the submission of the dynamic model for the ±800 kV Agra-BNC-Alipurduar HVDC MTDC has already been communicated by NLDC, GRID -INDIA.

However, we have not yet received the required dynamic model. ***This data is crucial for islanding formation studies, especially considering that the ±800 kV MTDC Agra-BNC-Alipurduar operates in frequency control mode.***

As per 225th OCC meeting, NERTS informed that response is still awaited from the corporate office on the matter. NERTS added that the matter was earlier taken up by NLDC with the Powergrid and hence requested NERLDC may take up with NLDC for getting the required data.

Deliberation of the sub-committee

NERTS updated that the response is still awaited from the corporate office and requested NERLDC to take up the matter with NLDC.

MS NERPC stated that NERPC can write a letter to NDLC to facilitate testing of ±800 kV MTDC Agra-BNC-Alipurduar in frequency control mode.

4.11 Compliance with Annual Measurement of Harmonics, DC Injection, and Flicker as per CEA Regulations

As per the CEA (Technical Standards for Connectivity to the Grid) Regulations, Clause B1(4), Measurement of harmonic content, DC injection and flicker shall be done at least once in a year in presence of the parties concerned and the indicative date for the same shall be mentioned in the connection agreement;

Provided that in addition to annual measurement, if distribution licensee or transmission licensee or the generating company, as the case may be, desires to measure harmonic content or DC injection or flicker, it shall inform the other party in writing and the measurement shall be carried out within 5 working days";

In accordance with this regulation, all Wind generating stations and generating stations using inverters connected to the grid are required to perform this test annually and submit the test report to the relevant utility authorities. All utilities are requested to provide an update on the current

status of test reports and outline their future testing plans as per CEA guidelines.

In 224th OCC meeting, NERLDC apprised that no wind generators or inverter-based generators have provided any test reports so far. Forum requested the SLDCS of the states where such plants are located, to take up the matter with developers of such plants to and provide a testing plan and reports to NERPC and NERLDC at the earliest.

Further, MS NERPC informed that regarding the uniform guidelines on Harmonics measurement by transmission and generating utilities, matter has been put for discussion in the upcoming NPC meeting.

As per 225th OCC meeting, forum noted that agenda for uniform procedure has been put up in NPC for further deliberations. Moreover, the forum advised SLDCs to update the status of the harmonic content contribution from solar and wind generators.

Deliberation of the sub-committee

NERLDC informed that a mail has been sent by NERPC to the concerned states to provide testing details and reports for the Solar, Wind and IBR based generators but the reply is still awaited.

Assam informed that the matter is being taken up with the Solar developers.

Mizoram informed that price quotation has been asked from various agencies to carry out the tests at Selrui Solar plant and the reply is still awaited.

Forum exhorted the Asam and Mizoram to provide the required details at the earliest to NERPC and NERLDC. Also, the forum requested state SLDCs to provide the charging clearance for Solar, wind and IBR based plants only after ensuring compliance with CEA regulations on testing of Harmonics, DC injection and flicker. SLDs agreed to the same.

4.12 Performance of online network estimation tools at RLDC:

IEGC mandates RLDCs and SLDCs to utilize the network estimation tool integrated in their EMS and SCADA systems for the real time operational

planning study. Also, performance of the online estimator tools shall be reviewed in monthly operational meetings as per IEGC Regulation 33(2). Quote:

"*SLDCs, RLDCs and NLDC shall utilize network estimation tool integrated in their EMS and SCADA systems for the real time operational planning study. All users shall make available at all times real time error free operational data for the successful execution of network analysis using EMS/SCADA. Failure to make available such data shall be immediately reported to the concerned SLDC, the concerned RLDC and NLDC along with a firm timeline for restoration. The performance of online network estimation tools at SLDC and RLDC shall be reviewed in the monthly operational meeting of RPC. Any telemetryrelated issues impacting the online network estimation tool shall be monitored by RPC for their early resolution.*"

Unquote:

The performance of online network estimation tools at NERLDC is shown below:

14-May-2025 10:32:50

Difference & % Error of RTCA and RTNET

Constituents	SCADA	RTCA		RTNET	
		Difference	Error %	Difference	Error %
NER Generation	1495	386	13.00	29	1.00
NER Load	2140	338	12.00	29	12.00
Tripura	231	85	35.00	85	35.00
Assam	1272	553	31.00	553	31.00
Meghalaya	201	29	12.00	29	12.00
Manipur	141	27	23.00	27	23.00
Arunachal	129	41	30.00	41	30.00
Nagaland	84	37	30.00	37	30.00
Mizoram	82	14	12.00	14	12.00

Similarly, SLDC's are requested to present their online network estimation tool performance in the monthly operational meeting of RPC to comply with IEGC regulation 33(2).

In 225th OCCM, NERLDC apprised the forum that the date for conducting the workshop shall be finalised in May-2025.

Deliberation of the sub-committee

NERLDC informed that workshop will be conducted between 4 to 6th June'25. All concerned officers of the SLDCs are requested to participate in the workshop, as the faculty will include industry professionals as well as experts from GRID-INDIA.

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Annexure-I

List of Participants in the 226th OCC Meeting held on 20.05.2025

SN	Name & Designation	Organization	Contact No.
1	Sh. Moli Kamki, AE (E)	Ar. Pradesh	09863703539
2	Sh.Ojing Jerang, EE (E), SLDC	Ar. Pradesh	08974640622
3	Sh. Tarali Deka, AGM (T), AEGCL	Assam	09864981330
4	Sh. Dipmoni Nath, AM, AEGCL	Assam	08011117393
5	Sh. Ashim Sutradhar,SLDC,AEGCL	Assam	09864104356
6	Smt. Sushmita Das, SLDC	Assam	09864956879
7	Sh.Mikhail Puyam,, MSPCL	Manipur	09077560957
8	Sh. K.Lyngwa, SE (T&T), MePTCL	Meghalaya	09402506948
9	Sh. B.Narry, SE, MePTCL	Meghalaya	07005298338
10	Sh. B.Samiam, EE, SLDC	Meghalaya	09862021883
11	Sh. M.K.War, EE, SLDC,	Meghalaya	09774012496
12	Sh. C.Chawngzikpuia, SDO (MRT)	Mizoram	08974770712
13	Sh. Samuel Lalhriatzuala, SDO (Power Store)	Mizoram	08729982857
14	Sh. Vipin Kumar Azad, AE, SLDC	Mizoram	07085205665
15	Sh. Alex E.Ngullie, JE, SLDC	Nagaland	08837080321
16	Sh. Anil Debbarma, DGM, SLDC	Tripura	09612559250
17	Smt. Mamami Talukdar, GM (T)	NEEPCO	09435339690
18	Sh. Manas Pratim Sharma, Sr.Mgr	NEEPCO	08729901871
19	Sh. Neeraj Kumar, GM	NERLDC	09910907949
20	Sh. Sunil Singha, Manager	NERLDC	08414865365
21	Sh. Sachin Singh, Manager	NERLDC	08826991911
22	Sh. Yogendra Singh, Engineer	NERLDC	07005587509
23	Sh. Ashim Paul, DGM	PGCIL	09436602688
24	Sh. R.Haribabu, DGM	PGCIL	09445021006
25	Sh. Sanjib Pal, Section Head-PME	OTPC	09436583737
26	Sh. C.L.Khayuingam, Gr.Sr.Mgr (E)	NHPC	07085916006
27	Sh. Manoj Kumar Gupta, DGM(Trans.)	KMTL	09996789264
28	Sh. Rakesh Kumar, AGM	NTPC	09131171001
29	Sh.Mahesh Bhagat, Mgr (O&M)	STERLITE	09206682124
30	Sh. Suneel Kumar Patel, Engineer (CCR)	STERLITE	09109467509
31	Sh. K.B.Jagtap, Member Secretary	NERPC	-
32	Sh. Veerandranath Muncha, Director	NERPC	07358529099
33	Smti Kanchan Chauhan, Dy.Director	NERPC	08375070150
34	Sh. Vikash Shankar, Asst. Director	NERPC	09455331756

Shutdown Proposed for the month of June - 2025

SN	Name of Element	Jun-25 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Proposed Time	Reason	Category	Remarks
	SHUTDOWNS PROPOSED BY PGCIL																																		
1	132kV KUMARGHAT-AIZWAL																															0800 Hrs to 1700 Hrs	Integration of P591 relay with Line Differential relay for signal amplification.	Existing system improvement related shutdown.	SD may be availed subject to availability of 132 kV PK Bari - Kumarghat -AGTCPP link, 132 kV Badarpur-Kolasib-Aizwal link and 132 kV Jiribam -Tipiamukh- Aizwal link
2	132kV BADARPUR-KARIMGANJ(ASSAM)																															0800 Hrs to 1600 Hrs	For AMP works and Vegetation clearance by Kumarghat TLM from Loc 330-335.	Normal Maintenance related shutdown.	S/D may be availed subject to availabilty of 132 kV Kumarghat-Karimganj.
3	132 KV SILCHAR - BADARPUR-1																															0800 Hrs to 1600 Hrs	For AMP works	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132kV SILCHAR-BADARPUR-2
4	132kV SILCHAR-HAILAKANDI(ASSAM)-2																															0800 Hrs to 1600 Hrs	For AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132kV SILCHAR-HAILAKANDI(ASSAM)-1
5	132kV DOYANG(NEEPCO)-DIMAPUR-2																															0800 Hrs to 1700 Hrs	For replacement of conventional porcelain insulators by composite long rod polymer insulators at Power/Deep valley/River/SH/NH crossing locations	Existing system improvement related shutdown.	S/D may be availed subject to availabilty of all other 3 evacuation paths of Doyang HEP.
6	132kV SILCHAR-BADARPUR-2																															0900 Hrs to 1700 Hrs	For AMP works	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132kV SILCHAR-BADARPUR-1
7	AR of 132KV Dimapur Imphal line																															0700 Hrs to 1800 Hrs	NON - AUTO MODE required for OPGW installation works under Reliable Communication Scheme.	Construction activities related shutdown.	A/R may be kept in Non-Auto mode.
8	AR of 220 KV NEW MARIANI - KATHALGURI-2																															0800 Hrs to 1600 Hrs	For replacement of conventional porcelain insulators by composite long rod polymer insulators in 220kV MARIANI-KATHALGURI(ASSAM)-1.	Existing system improvement related shutdown.	A/R may be kept in Non-Auto mode.

SN	Name of Element	May-25 1	2	3	4	5	6	7	8	3	10	11	12	13	14	15	3	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Proposed Time	Reason	Category	Remarks
	220kV Transmission lines																																		
9	220kV OLD MARIANI-KATHALGURI(ASSAM)-1																															0800 Hrs to 1600 Hrs	For replacement of conventional porcelain insulators by composite long rod polymer insulators at Power/Deep valley/River/SH/NH crossing locations. For Tension towers from loc 1 - loc -374 . For suspension tower loc 4 - loc 291 .	Existing system improvement related shutdown.	S/D may be availed. At present, the Upper Assam power system is connected with 220 kV Samaguri-Mariani(AS) line, 220 kV Mariani(AS) - Mariani (PG) line, 220 kV AGBPP-Mariani(PG) line and 132 kV Mariani - Golaghat - Sarupathar - Bokajan - Dimapur link. Under N-1 condition of 220 kV AGBPP-New Mariani (PG) , Gate flow should be monitored and shall be maintained below **250 MW**(during solar period) and 260 MW (durng non-solar period) for safe and reliable grid operation. RELIABILITY OF THE SYSTEM IS REDUCED.

SN	Name of Element	Jun-25 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Proposed Time	Reason	Category	Remarks
	400kV Transmission lines																																		
10	400kV BALIPARA-BONGAIGAON-1 LINE																															1000 Hrs to 1900 Hrs	1) TESTING OF LBB RELAY AFTER REPLACEMENT IN 413 MAIN BAY WITH NUMERICAL AFTER REPLACEMNENT WITH ELECTROMEHANICAL Relay at Bongaigaon SS . 2) CSD TUNNING WORKS in Balipara - Bongaigaon#1 Reactor at Balipara SS (Switching operations required for reactor taking as Bus reactor at Balipara SS) .	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits
11	400KV BONGAIGAON-AZARA TL ALONG WITH LINE REACTOR																															0900 Hrs to 1700 Hrs	AMP Works	Normal Maintenance related shutdown.	S/D may be availed subject to availabilty of 400 kV Bongaigaon-Killing, 400 kV Killing-Silchar, 220 kV Salakati-BTPS-Agia-Azara link and 220 kV Balipara-Sonabil D/C. NER ATC/TTC to be revised.
12	400kV SILCHAR-P K BARI(STERLITE)-2																															0900 Hrs to 1500 Hrs	For fixing of missed spacers in bottom phase between Loc 351-352 under Diversion works carried out due to river course changes in the month of April-25.	Construction activities related shutdown.	S.D may be availed subject to availabilty of 400kV SILCHAR-P K BARI(STERLITE)-1.
13	400KV BALIPARA BNC-4 LINE																															1000 Hrs to 1300 Hrs	For Modification OF LBB RELAY scheme	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits
14	400KV BALIPARA BONGAIGAON-2 LINE																															1400 Hrs to 1700 Hrs	For Modification OF LBB RELAY scheme	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits
15	400KV BALIPARA BNC-4 LINE																															1000 Hrs to 1400 Hrs	For Modification OF LBB RELAY scheme	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits
16	400KV BALIPARA BONGAIGAON-2 LINE																															1000 Hrs to 1400 Hrs	For Modification OF LBB RELAY scheme	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits
17	400KV BALIPARA BNC-3 LINE																															1000 Hrs to 1300 Hrs	For Modification OF LBB RELAY scheme	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits
18	400KV BALIPARA BONGAIGAON-1 LINE																															1400 Hrs to 1700 Hrs	For Modification OF LBB RELAY scheme	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits.
19	400KV BALIPARA BNC-3 LINE																															1000 Hrs to 1400 Hrs	For Modification OF LBB RELAY scheme	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits
20	400KV BALIPARA BONGAIGAON-1 LINE																															1000 Hrs to 1400 Hrs	For Modification OF LBB RELAY scheme	Existing system improvement related shutdown.	S/D may be availed subject to availailty of other circuits.

SN	Name of Element	Jun-25 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Proposed Time	Reason	Category	Remarks
	400 KV Bongaigaon SS																																		
21	MAIN BAY of 400KV BONGAIGAON-BLP#2(412) at Bongaigaon SS																															0900 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. 400 kV Balipara 2 shares dia with 50 MVAR BR 2
22	MAIN BAY of 400KV BONGAIGAON-ICT#2(403) at Bongaigaon SS																															0900 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. ICT 2 shares dia with 125 MVAR BR 5
23	MAIN BAY of 400KV BONGAIGAON-BTPS#1(424) at Bongaigaon SS																															0900 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. 400 kV BTPS 1 shares dia with 400 KV Killing
24	MAIN BAY of 400KV BONGAIGAON-BR#1(409) at Bongaigaon SS																															0800 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. 400KV 50MVAR BR#1shares dia with 400 kV Siliguri 2
25	MAIN BAY of 400KV BONGAIGAON-ICT#1 404 at Bongaigaon SS																															0800 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. ICT 1 shares dia with 400 kV Siliguri 1
26	MAIN BAY of 400KV BONGAIGAON-ALPD#2 416 at Bongaigaon SS																															0800 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. 400 kV Alipurduar 2 shares dia with 400 kV Balipara 4
27	MAIN BAY of 400KV BONGAIGAON-BR#5 at Bongaigaon SS																															0800 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. ICT 2 shares dia with 125 MVAR BR 5
28	413 Bay (Main Bay of 400KV Bongaigaon - Balipara - 1 line) at Bongaigaon SS																															***CSD*** 0800 Hrs to 1600 Hrs	REPLACEMENT OF ELECTROMECHANICAL LBB RELAY WITH NUMERICAL RELAY IN 413 MAIN BAY	Existing system improvement related shutdown.	S/D may be availed subject to no outage of elements (except for line sd on same date). 400 kV Balipara 1 shares dia with 400 kV Alipurduar 1.
	400/132 KV Imphal SS																																		
29	420 (Tie bay of Future and Thoubal Line 2) AT IMPHAL SS																															0800 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements
30	419 BAY (Future Bay) AT IMPHAL SS																															0800 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed
31	421 Bay Imphal_Thoubal line 2 AT IMPHAL SS																															0800 Hrs to 1600 Hrs	AMP of Bay equipments .	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements
	400 KV Balipara SS																																		
32	400KV BONGAIGAIN-2 AND BNC-4 TIE BAY (BAY-417) at Balipara SS																															***CSD*** 0800 Hrs to 1600 Hrs	For Modification OF LBB RELAY scheme	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements
33	Tie bay of 400KV BONGAIGAIN-1 AND BNC-3 (BAY-414) at Balipara SS.																															***CSD*** 0800 Hrs to 1600 Hrs	For Modification OF LBB RELAY scheme	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements

SN	Name of Element	Jun-25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Proposed Time	Reason	Category	Remarks
34	400KV BNC-4 MAIN BAY (BAY-418) at Balipara SS		0800 Hrs to 1600 Hrs	AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. 400 kV BNC 4 shares dia with 400 kV Bongaigaon 2
35	400KV KAMENG-2 MAIN BAY (BAY-421) at Balipara SS		0800 Hrs to 1600 Hrs	AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. 400 kV Kameng 2 shares dia with 400 kV Bongaigaon 4
36	400kV TIE BAY OF BONGAIGAON-1 & BNC-3(414) at Balipara SS		CSD 0800 Hrs to 1600 Hrs	FOR REPLACEMENT FAULTY ABB MAKE CSD OF BAY-414	Existing system improvement related shutdown.	S/D may be availed subject to no outage of elements
	400 KV Silchar SS					
37	402 Bay (ICT01_AZARA TIE BAY) at Silchar SS		0800 Hrs to 1600 Hrs	AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements
	400 KV Misa SS					
38	400KV Misa-Silchar-1 Line BAY (BAY-435) at Misa SS		0800 Hrs to 1600 Hrs	AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. 400 kV Silchar 1 shares dia with 400 kV Mariani 2
39	400 kV Silchar-1 & Mariani-2 Tie bay (Bay-436) at Misa SS		0800 Hrs to 1600 Hrs	AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements.
40	400 kV Misa-Silchar#2 Line Bay (Bay-434) at Misa SS		0800 Hrs to 1600 Hrs	AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. 400 kV Silchar 2 shares dia with 400 kV Mariani 1
	400 KV Mariani SS					
41	220 KV Bus -A at Mariani SS		0900 Hrs to 1600 Hrs	AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. Under N-1 contingency of the other bus, Gate flow should be monitored and shall be maintained below 260 MW(during solar period) and 250 MW (durng non-solar period) for safe and reliable grid operation. RELIABILITY OF THE SYSTEM IS REDUCED.
42	220 KV Bus -B at Mariani SS		0900 Hrs to 1600 Hrs	AMP works	Normal Maintenance related shutdown.	S/D may be availed subject to no outage of elements. Under N-1 contingency of the other bus, Gate flow should be monitored and shall be maintained below 260 MW(during solar period) and 250 MW (durng non-solar period) for safe and reliable grid operation. RELIABILITY OF THE SYSTEM IS REDUCED.
	132 KV Dimapur SS					
43	160MVA,220/132kV ICT-2 AT DIMAPUR SS		0800 Hrs to 1600 Hrs	Installation and connection of Teritary equipmntes(400KVA 33KV/433 V LT Transformer)	Construction activities related shutdown.	S/D may be availed subject to availability of other 2 ICTs

SN	Name of Element	Jun-25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Proposed Time	Reason	Category	Remarks
	Interregional/International					
44	800kV HVDC AGRA-BISWANATHCHARIALI POLE-1		0900 Hrs to 1800 Hrs	AMP works proposed by NR3 Shutdown of HVDC Pole1 is required for RTV coating of DC Hall equipment(SMR BPI and LFL BPI & DC FILTER BPI).	Normal Maintenance related shutdown.	S/D may be availed subject to availabilty of other pole. NLDC consent
45	800kV HVDC AGRA-BISWANATHCHARIALI POLE-2		0900 Hrs to 1800 Hrs	AMP works proposed by NR3 Shutdown of HVDC Pole2 is required for RTV coating of DC Hall equipment(SMR BPI and LFL BPI & DC FILTER BPI).	Normal Maintenance related shutdown.	S/D may be availed subject to availabilty of other pole. NLDC consent
46	800kV HVDC AGRA-ALIPURDUAR POLE-3		0900 Hrs to 1800 Hrs	AMP works proposed by NR3 Shutdown of HVDC Pole3 is required for RTV coating of DC Hall equipment(SMR BPI and LFL BPI & DC FILTER BPI).	Normal Maintenance related shutdown.	S/D may be availed subject to availabilty of other pole. NLDC consent
47	800kV HVDC AGRA-ALIPURDUAR POLE-4		0900 Hrs to 1800 Hrs	AMP works proposed by NR3 Shutdown of HVDC Pole4 is required for RTV coating of DC Hall equipment(SMR BPI and LFL BPI & DC FILTER BPI).	Normal Maintenance related shutdown.	S/D may be availed subject to availabilty of other pole. NLDC consent

SN	Name of Element	Jun-25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Proposed Time	Reason	Category	Remarks
	SHUTDOWNS PROPOSED BY ARUNACHAL PRADESH					
1	132 KV Ziro-Daporijo Transmission Line		0900 Hrs to 1600 Hrs	Clearance of Vegetation along the corridor	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 kv Ziro-Panyor line & 132 kV Rupai-Chapakhowa-..-Daporizo link. Also combined loading of 132 kV Tinsukia-ledo & 132 kV Tinsukia-Rupai line to be kept below 60 MW.
2	132 KV Daporijo-Basar Transmission Line		0900 Hrs to 1600 Hrs	Clearance of Vegetation along the corridor	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 kv Daporizo-Ziro-Panyor line & 132 kV Rupai-Chapakhowa-..-Daporizo link. Also combined loading of 132 kV Tinsukia-ledo & 132 kV Tinsukia-Rupai line to be kept below 60 MW.
3	220 KV Incomer Bay 2 at 220/132 KV Deomali Sub-Station		CSD from 07:00 hrs of 07/06/25 to 16:00 hrs of 08/06/25	Overhauling work of 220/132 KV 33.3MVA Transformer (B- Phase) is completed. Shutdown is required for charging of the overhauled Transformer	Normal Maintenance related shutdown.	S/D may be availed

SN	Name of Element	Jun-25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Time	Reason	Category	Remarks
	SHUTDOWNS PROPOSED BY Meghalaya					
1	220KV Killing-Misa D/C Lines		08:00hrs to 16:00hrs	For line maintenance works	Normal Maintenance related shutdown.	SD may be availed subject to availability of 400/220/132kV ICTs at Killing S/s, 132 kV Agia-Nangalbibra links and 132 kV Khleihriat-Khleihriat(DC).
2	220KV Killing-Mawphlang D/C Lines		08:00hrs to 16:00hrs	For line maintenance work and jungle clearance from T/Loc No. 01 to T/Loc No. 147	Normal Maintenance related shutdown.	SD may be availed subject to availability of 400/220/132kV ICTs at Killing S/s, 132 kV Killing-EPIP- Umtru- Umiam 3-Umiam 1-Mawngap-Mawlai-Umiam 1 link . Availability of 132kV Badarpur-Khiehriat,132kV Badarpur-Panchgram-Lumshnong, 132kV Khlihriat-Khandong-Kopili and 132kV Khleihriat-Khandong-Umrangshu-Halflong-Jiribam link. The combined loading of 132 kV Khleriat-Khleriat D/C to be kept below 90 MW. For loading greater than 90 MW, Meghalaya has to bring their internal generation. The sensitivity of Leshka generation on 132 kV Khleriat-Khleriat D/C is 50% and the sensitivity of rest internal generation of Meghalaya on 132 kV Khleriat-Khleriat D/C is 20%.
3	220KV Killing-Mawphlang D/C Lines		09:00hrs to 16:00hrs	From T/Loc No. 148 at Lawsiej to T/Loc No. 262 at Mawphlang. Checking & tightening of jumper nuts & bolt from T/Loc No. 209-215	Normal Maintenance related shutdown.	
4	132KV Umtru-Sarusajai D/C Lines		08:00hrs to 16:00hrs	For line maintenance work and jungle clearance	Normal Maintenance related shutdown.	S/D may be availed.
5	132kV Ampati Bus		08:00hrs to 12:00hrs	Stringing of Bus Conductor at the new 132 KV Bay extension	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 kV Ganol-Rongkhon line and 132 kV Agia-Hastingimari line.

SN	Name of Element	Jun-25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Time	Reason	Category	Remarks
	SHUTDOWNS PROPOSED BY NAGALAND					
1	132kV DIMAPUR(PG)-KOHIMA		09:00 Hrs to 15:00 Hrs	Vegetation Clearance	Normal Maintenance related shutdown.	Subject to availibity of 132 kV Imphal-Karong-Kohima link and 132 kV Dimapur-Doyang-Sanis-Wokha-Chiephbozou-Zhadima-kohima link.

SN	Name of Element	Jun-25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Time	Reason	Category	Remarks
	SHUTDOWNS PROPOSED BY Tripura					
1	132 KV Mohanpur Main Bus i/c lines		09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed
2	132 KV Palatana - Udaipur Line		09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132kV Monarchak - Udaipur and 132kV Monarchak - Rokhia and 132kV Rokhia - Agartala D/C. Generation of Monarchak is to be kept within 70 MW. SPS at Monarchak to be kept off before availing SD.
3	132 KV PK Bari - Dharmanagar Line		09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	SD may be availed subject to the availabity of 132 KV Hailakandi - Durllavcherra - Dharmanagar line.

SN	Name of Element	Time	Reason	Category	Remarks
4	132 KV SM Nagar- SM Nagar (ISTS) Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed. The loading of 132 kV SM Nagar (ISTS) - Bodhjungnagar line is to be restriced within 65 MW after availing the S/D. The loading will be maintained by SLDC Tripura.
5	132 KV Rokhia - Agartala Line I	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of ckt 2. Combined loading of 132kV Monarchak - Udaipur line and 132kV Rokhia-Agartala I should be within 70 MW. SPS at Monarchak to be kept in off condition, if generation at Monarchak is less than 70 MW
6	132 KV Dharmanagar - Durlavchara Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132kV Hailakandi - Durllavcherra and 132kV PK Bari - Dharamnagar.
7	132 KV Udaipur Main Bus i/c lines	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 KV Monarchak - Rokhia-Agartala Link & 132 kv Palatana-Surajmaninagar line. Generation of Monarchak is to be kept within 70 MW. SPS at Monarchak to be kept off before availing SD.
8	132 KV Monarchak - Udaipur Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132kV Palatana - Udaipur and 132kV Monarchak - Rokhia-Agartala link. Generation of Monarchak is to be kept below 70 MW. SPS at Monarchak to be kept off before availing SD.
9	132 KV PK Bari - PK Bari (ISTS) Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed. The loading of 132 kV SM Nagar - SMNagar line to be restricted within 70 MW after availing the S/D. The loading will be maintained by SLDC Tripura.
10	132 KV Rokhia - Agartala Line II	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of ckt 1. Combined loading of 132kV Monarchak - Udaipur line and 132kV Rokhia-Agartala I should be within 70 MW. SPS at Monarchak to be kept in off condition, if generation at Monarchak is less than 70 MW
11	132 KV Monarchak - Rokhia Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132kV Palatana - Udaipur and 132kV Monarchak - Udaipur and 132kV Rokhia - Agartala D/C. Monarchak Generation may be kept to 70 MW. SPS at Monarchak to be kept off before availing shutdown
12	132 KV Rokhia - Monarchak - Udaipur Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 kV Rokhia -Agartala-SM-Nagar D/C, 132 kV SM Nagar-SM Nagar (ISTS) line 132 kV Palatana -Udaipur, 132 kV Palatana SM Nagar line, 132 kV PK Bari PK Bari, 132 kV SM Nagar Budjungnagar SM Nagar. **Tripura Drawl to be restricted below 280 MW**
13	132 KV Ambassa - PK Bari (ISTS) Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132kV Ambasa - Gamaitilla - Baramura - Jirania link.The loading of 132 kV SM Nagar - SMNagar line to be restricted within 70 MW after availing the S/D.
14	132 KV Bodhjung Nagar - SM Nagar (ISTS) Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	The SD may be availed subject to availability of 132 KV Surjamaninagar - SM Nagar(ISTS)Line . Under N-1 contingency of 132 kV SM Nagar-SM Nagar (ISTS) , loading 132 kV PK Bari-PK Bari line to be kept below 85 MW. Internal generation to be maximised to help control line loadings.
15	132 KV Gamaitilla - Ambassa Line	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132kV Budhjungnagar - Jirania - Baramura -Gamaitila lines
16	132 KV Bodhjung Nagar Main Bus i/c lines	09:00 hrs to 16:00 hrs	Routine maintenance	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 kV Agartala-SM-Nagar D/C, 132 kV SM Nagar-SM Nagar (ISTS) line & 132 kV Baramura-Jirania line. Under N-1 contingency of 132 kV SM Nagar-SM Nagar (ISTS) , loading 132 kV PK Bari-PK Bari line to be kept below 85 MW. Internal generation to be maximised to help control line loadings.

Jun-25

SN	Name of Element	Time	Reason	Category	Remarks
	SHUTDOWNS PROPOSED BY NEEPCO				
1	Assam Gas Based Power Stations (AGBPS),STG#1	CSD from 00:00 hrs of 09/06/25 to 23:59 hrs of 16/06/25	To attend the troubleshooting of recent Upgradation of Module-1 DCS ,through OEM ,M/S ABB India Ltd.as a part of R&M works.	Normal Maintenance related shutdown.	SD may be availed.
2	Tripura Gas Based Power Stations (TGBPS),Gas Turbine (Monarchak)	CSD from 00:00 hrs of 16/06/25 to 23:59 hrs of 20/06/25	GT Compressor off line washing. Baroscopic Inspection of GT.	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 kV AgTCPP -Agartala-SM-Nagar link, 132 kV SM Nagar-SM Nagar (ISTS) line , 132 kV Palatana SM Nagar line, 132 kV PK Bari PK Bari, 132 kV SM Nagar Budjungnagar SM Nagar link. **Tripura Drawl including Bangaldesh to be restricted below 280 MW.The loading of 132 kV SM Nagar - SMNagar line to be restricted within 70 MW after availing the S/D.**

Jun-25

SN	Name of Element	Time	Reason	Category	Remarks
	SHUTDOWNS PROPOSED BY OTPC				
1	400kV Palatana - Silchar Line-1	08:00 hrs to 17:00 hrs	For Attending 1.406-89L ISOLATOR ROTARY SWITCHES REPLACEMENT 2. 406-89LE EARTH SWITCH ROTARY SWITCH REPLACEMENT 3. 406-52 LR CB OPERATIONAL Checks. 4. 405 &405 BAY PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	SD may be availed subjected to availability of 400kV Silchar - Palatana 1 line and 400kV Palatana - SMNagar - PK Bari - Silchar link.
2	400kV Palatana - Silchar Line-1 REACTOR at Palatana	08:00 hrs to 17:00 hrs	REACTOR CORRECTIVE AND PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed
3	400kV Palatana - Silchar Line-2	08:00 hrs to 17:00 hrs	for Attending 1. 409-89L ISOLATOR ROTARY SWITCHES REPLACEMENT 2. 409-89LE EARTH SWITCH ROTARY SWITCH REPLACEMENT 3. 409-CVT CABLE CHECKING FROM JB TO RELAY PANEL 4. 409-52 LR CB STATUS FB MULTILIER CHECKING AND OPERATIONAL CHECKS. 5. 408 &409 BAY PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	SD may be availed subjected to availability of 400kV Silchar - Palatana 1 line and 400kV Palatna - SMNagar - PK Bari - Silchar link.
4	400kV Palatana - Silchar Line-2 REACTOR at Palatana	08:00 hrs to 17:00 hrs	REACTOR CORRECTIVE AND PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed

Jun-25

SN	Name of Element	Time	Reason	Category	Remarks
	SHUTDOWNS PROPOSED BY ASSAM				
1	132kV GOLAGHAT-MARIANI	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed. 132 kV Dimapur - Bokajan - Sarupathar - Golaghat link to be kept in service.
2	132kV GOLAGHAT-SARUPATHAR	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may availed. 132 kV Mariani - Golaghat line and 132 kV Dimapur - Bokajan - Sarupathar link to be kept in service.
3	132kV MAIN BUS AT MARIANI	05:00-09:30	DISMANTLING OF 132kV CB the mentioned 132kV Main Bus shutdown is required to dismantle one set of 145kV Spare Circuit Breaker which is near to the 132kV Main Bus. As the circuit breaker is near to the bus, therefore the shutdown is required for safety concern.	Normal Maintenance related shutdown.	S/D may be availed. At present, the Upper Assam power system is connected with 220 kV Samaguri-Mariani(AS) line, 220 kV Mariani(AS) - Mariani (PG) line, 220 kV AGBPP-Mariani(PG) line and 132 kV Mariani - Golaghat - Sarupathar - Bokajan - Dimapur link. Under N-1 condition of 220 kV AGBPP-New Mariani (PG) , Gate flow should be monitored and shall be maintained below 260 MW(during solar period) and 250 MW (durng non-solar period) for safe and reliable grid operation. RELIABILITY OF THE SYSTEM IS REDUCED.
4	132kV BOKAJAN-DIMAPUR	9:00-16:00	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed. 132 kV Mariani - Golaghat - Sarupathar - Bokajan link to be kept in service.
5	132kV BOKAJAN-SARUPATHAR	9:00-16:00	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed. 132 kV Dimapur -Bokajan line and 132 kV Mariani - Golaghat - Sarupathar link to be kept in service
6	220kV SAMAGURI-MARIANI-II	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed. At present, the Upper Assam power system is connected with 220 kV Samaguri-Mariani(AS) line, 220 kV Mariani(AS) - Mariani (PG) line, 220 kV AGBPP-Mariani(PG) line and 132 kV Mariani - Golaghat - Sarupathar - Bokajan - Dimapur link. Under N-1 condition of 220 kV AGBPP-New Mariani (PG) , Gate flow should be monitored and shall be maintained below **245 MW**(during solar period) and 225 MW (durng non-solar period) for safe and reliable grid operation. RELIABILITY OF THE SYSTEM IS REDUCED.
7	220kV TINSUKIA-KATHALGURI-I	10:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed subject to the availability of 220 kV Tinsukia-Kathalguri II, 220 kV Tinsukia - NTPS and 220 kV Tinsukia - NRPP - NTPS,

8	220kV TINSUKIA-KATHALGURI-II	10:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed subject to the availability of 220 kV Tinsukia-Kathalguri I, 220 kV Tinsukia - NTPS and 220 kV Tinsukia - NRPP - NTPS,
9	220kV TINSUKIA-NTPS	10:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed. 220 kV Tinsukia - Kathalguri D/C and 220 kV Tinsukia - NRPP- NTPS-Amguri-Mariani link to be kept in service.
10	220kV TINSUKIA-NRPP	10:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed. 220 kV Tinsukia - Kathalguri D/C, 220 kV Tinsukia - NTPS-Amguri-Mariani link and 220 kV NTPS - NRPP are to be kept in service.
11	220kV AMGURI-NAMRUP (NTPS)	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 220 k Mariani-Amguri line. At present, the Upper Assam power system is connected with 220 kV Samaguri-Mariani(AS) line, 220 kV Mariani(AS) - Mariani (PG) line, 220 kV AGBPP-Mariani(PG) line and 132 kV Mariani - Golaghat - Sarupathar - Bokajan - Dimapur link. Under N-1 condition of 220 kV AGBPP-New Mariani (PG) , Gate flow should be monitored and shall be maintained below 275 MW(during solar period) and 225 MW (durng non-solar period) for safe and reliable grid operation. RELIABILITY OF THE SYSTEM IS REDUCED.
12	220kV MARIANI-AMGURI	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	SD may be availed subject to availability of 220 kV Amguri-NTPS line. Considering N-1 contingency of 220 kV AGBPP - Mariani (PG) line, Upper Assam Power Flow is to be maintained within 230 MW (during solar period) and 225 MW (during non-solar period)
13	220/132kV 100MVA TR-II AT TINSUKIA	08:00-16:00	ROUTINE TESTING	Normal Maintenance related shutdown.	S/D may be availed subject to availability of other transformer.
14	132kV GOHPUR-NALKATA (North Lakhimpur)-I	07:00-14:00	LINE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 kV Gohpur - Nalkata ckt 2
15	132kV GOHPUR-NALKATA (North Lakhimpur)-II	07:00-14:00	LINE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 132 kV Gohpur - Nalkata ckt 1
16	132kV NALKATA (North Lakhimpur)-PARE	10:00-12:00	SAMAST COMPLAINT ENERGY METER INSTALLATION AT NALKATA GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckts in the area
17	132kV NALKATA (North Lakhimpur)-NIRJULI	13:00-15:00	SAMAST COMPLAINT ENERGY METER INSTALLATION AT NALKATA GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckts in the area
18	132kV NIRJULI -GOHPUR	10:00-12:00	SAMAST COMPLAINT ENERGY METER INSTALLATION AT GOHPUR GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckts in the area
19	132kV BNC(PG)- GOHPUR	13:00-15:00	SAMAST COMPLAINT ENERGY METER INSTALLATION AT GOHPUR GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckts in the area
20	132kV GOHPUR-CHIMPU	10:00-12:00	SAMAST COMPLAINT ENERGY METER INSTALLATION AT GOHPUR GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckts in the area
21	132kV PAVOI-GOHPUR-II	13:00-15:00	SAMAST COMPLAINT ENERGY METER INSTALLATION AT GOHPUR GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckt
22	132kV PAVOI-GOHPUR-I	11:00-12:30	SAMAST COMPLAINT ENERGY METER INSTALLATION AT PAVOI GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckts in the area
23	132kV BNC (PG)-Pavoi-I	13:00-15:00	SAMAST COMPLAINT ENERGY METER INSTALLATION AT PAVOI GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckt.
24	132kV BNC (PG)-Pavoi-II	11:00-13:00	SAMAST COMPLAINT ENERGY METER INSTALLATION AT PAVOI GSS	Existing system improvement related shutdown.	S/D may be availed subject to availability of other ckt.
25	220kV SAMAGURI-SONABIL-I	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	SD may be availed subject to availability of 220kV Samaguri-Sonabil Ckt 1, 220kV Misa-Samaguri D/C and 220kV Samaguri - Mariani (AS)
26	220kV SAMAGURI-SONABIL-II	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	
27	220kV AGIA-BTPS- I	9:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	The S/D may be availed subject to availability of 220kV Agia-BTPS 2 line (which line loading to be maintained below 500A). 400kV Bongaigaon - Azara, 400/220kV ICTs at Azara S/s should be kept in service.
28	220kV AGIA-BTPS- II	9:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	The S/D may be availed subject to availability of 220kV Agia-BTPS 1 line (which line loading to be maintained below 500A). 400kV Bongaigaon - Azara, 400/220kV ICTs at Azara S/s should be kept in service.
29	220kV AGIA-BOKO	9:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed. 220 kV Mirza - Boko line and 220 kV Agia - Mirza line to be kept in service.
30	220kV MIRZA-AGIA	9:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed. 220 kV Agia - Boko - Mirza link to be kept in service. Also, 400kV Bongaigaon - Azara, 400/220kV ICTs at Azara S/s, 220kV Balipara - Sonabil D/C
31	220kV MIRZA-BOKO	8:30-16:30	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed. 220 kV Agia - Boko and 220 kV Agia-Mirza to be in service.
32	132kV AGIA-HATSINGIMARI	9:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed subject to 132 kV Nangalbibra - Rongkhon - Ampati - Hastingimari link
33	132kV SARUSAJAI-UMTRU - I	10:00-13:00	PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed.
34	220kV SAMAGURI-SONAPUR	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	S/D may be availed subject to availability of 220 kV Sarusajai-Jawaharnagar-Samaguri link, 220 kV Sarusajai - Sonapur line and 220 kV Sarusajai-Azara DC.
35	220kV SARUSAJAI-SONAPUR	8:30-16:30	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	SD may be availed subject to availability of 220kV Samaguri-Sonapur line, 220kV Samaguri-Jawaharnagar-Sarusajai link & 220kV Azara-Sarusajai D/C.
36	220kV SAMAGURI-JAWAHARNAGAR	08:00-16:00	CORRIDOR CLEANING	Normal Maintenance related shutdown.	SD may be availed subject to availability of 220kV Samaguri-Sonapur-Sarusajai link, 220kV Jawaharnagar-Sarusajai line.
37	220kV SAMAGURI-JAWAHARNAGAR	08:30-16:30	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	
38	220kV SARUSAJAI-JAWAHARBAGAR	08:30-16:30	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	
39	220 kV SALAKATI (BTPS) - RANGIA-II	07:00-16:00	PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed subject availability of 220 kV BTPS-RANGIA CKT I. SPS at Rangia should be kept in ON condition.
40	220 kV SALAKATI (BTPS) - RANGIA-I	07:00-16:00	PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed subject availability of 220 kV BTPS-RANGIA CKT II. SPS at Rangia should be kept in ON condition.
41	132kV PAILAPOOL-JIRIBUM	06:00-18:00	REPLACEMENT OF EXISTING 132kV CT FOR JIRIBAM FEEDER	Existing system improvement related shutdown.	SD may be availed subject to availability of 132 kV Srikona-Pailapool line.
42	132 kV SRIKONA-PAILAPOOL	9:00-16:00	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	SD may be availed subject to availability of 132 kV Jiribam-Pailapool line.
43	132 kV PANCHGRAM-HAILAKANDI	9:00-16:00	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	SD may be availed. subject to availability of 132 kV Badarpur-Panchgram line & 132kV Panchgram-Lumshong.
44	132 kV PANCHGRAM-LUMSHNONG	9:00-16:00	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	S/D may be availed.132 kV Badarpur-Khleihrait line, 132 kV Kopili-Khandong- Khliehriat link, 132 kV Jiribam - Halfong - Khandong - Khliehriat links shall be kept in service.
45	132 kV HAILAKANDI-DULLAVCHERRA	9:00-16:00	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	SD may be availed subject to availabilty of 132kV PK Bari - Dharmanagar-Dullavcherra link
46	133 kV DULLAVCHERRA-DHARMANAGAR	9:00-16:00	CORRIDOR CLEANING & PREVENTIVE MAINTENANCE	Normal Maintenance related shutdown.	SD may be availed subject to availabilty of 132kV PK Bari - Dharmanagar and 132kV Dullavcherra – Hailakandi.

Annexure 2.3

सत्यमेव जयते

सरकार/Government of India

विद्युत मंत्रालय/Ministry of Power

केंद्रिय विद्युत प्राधिकरण/Central Electricity Authority

राष्ट्रीय विद्युत समिति प्रभाग /National Power Committee Division

Ist Floor, Wing-5 ,West Block-II, RK Puram, New Delhi-66

No. CEA/GO-15-14/1/2021-NPC Division **Date: 11. 05.2025**

To,

1. Regional Power Committees (RPCs)
2. Regional Load Despatch Centres (RLDCs)
3. State Load Despatch Centres (SLDCs)
4. Central Electricity Regulatory Commission (CERC)
5. State Electricity Regulatory Commissions (SERCs)

Subject: Islanding Scheme Preparedness and Operation of Embedded Generation to Enhance Power System Resilience-reg

Madam/Sir,

Ensuring the uninterrupted operation of critical services during emergencies is of paramount important, Islanding Schemes are one of the measures which prevent total blackout and enable quicker restoration of grid at the time of grid disturbances. As per Central Electricity Authority (Grid Standards) Regulation, 2010, " *(1) The Regional Power Committees shall prepare Islanding schemes for separation of systems with a view to save healthy system from total collapse in case of grid disturbance. (2) The Entities shall ensure proper implementation of the Schemes referred to in sub-regulation (1).*

2. The effective implementation of islanding schemes is vital for maintaining continuity of essential services during grid failures. At present, 23 islanding schemes are operational across the Indian power system **(Copy Enclosed).** The successful functioning of embedded generation within these schemes is crucial for their intended performance during any grid contingency.

3. In view of the above, the following actions required to be done on priority:

a) **A Comprehensive reviews** of all the Islanding schemes and LGB to be monitored continuously with the participating generators and loads. Specifically, the critical loads such as Airport, Defense & Critical loads within the islands are to be reviewed.

(Action: RPCs/RLDC/SLDC/Participating Generators and Load)

b) Testing and Validation of Islanding Schemes: Periodic testing of the implemented islanding schemes must be carried out to ensure their readiness and functional health.

(**Action**: SLDCs / Generating Stations /RLDCs/RPCs)

c) Compensation Mechanism for Minimum Generation: Appropriate compensation for operating generating units at the minimum required level (must-run status) must be determined and provided to ensure financial viability.

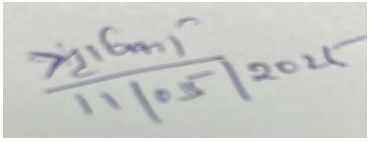
(**Action**: SERCs / CERC)

In view of the above, all concerned entities are hereby directed to ensure compliance with the above measures to strengthen grid resilience and support continuity of critical services during emergencies. RPCs are requested to ensure above compliance with respect to SLDCs/Generating Stations/RLDCs.

4. This issues with the approval of Chairperson, CEA.

Encl: As above.

भवदीय/Yours faithfully



(ऋषिका शरण/Rishika Sharan)
मुख्य अभियन्ता एवं सदस्य सचिव,रा.वि.स /
Chief Engineer & Member Secretary, NPC

Copy for kind information to: -

1. Chairperson, CEA, New Delhi
2. Member (GO&D), CEA, New Delhi
3. Chief Secretaries/ Additional Chief Secretaries of the States

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सत्यमेव जयते

भारत सरकार/Government of India
विद्युत मंत्रालय/Ministry of Power
केन्द्रीय विद्युत प्राधिकरण/Central Electricity Authority
विद्युत प्रणाली अभियांत्रिकी एवं प्रौद्योगिकी विकास प्रभाग
Power System Engineering & Technology Development Division

Dated the 11th May, 2025

To,

As per attached list

Subject: Standard Operating Procedure (SOP) for restoration of the transmission system – reg.

Sir,

I am directed to circulate a Standard Operating Procedure (SOP) to all Transmission Companies to quickly restore damaged transmission systems, protect personnel, and strengthen power system resilience.

2. In this regard, it is mentioned that objective of the aforesaid SOP is to establish a structured plan to quickly restore damaged transmission systems, protect personnel, and strengthen power system resilience. The SOP shall apply to all substations and associated transmission infrastructure—including transmission lines, transformers, switchyards, protection & control systems, and communication systems—located in high-risk or vulnerable zones.

3. Accordingly, the aforesaid SOP is enclosed herewith for necessary compliance by all Transmission Companies/SLDCs.

4. This issues with the approval of Chairperson, CEA.

Encl: As above.

भवदीय,
Signed by Pankaj Kumar Verma
Date: 11-05-2025 21:23:04
(पंकज कुमार वर्मा /Pankaj Kumar Verma)
उप-निदेशक/Dy. Director

Copy to:

1. Joint Secretary (Trans), MoP
2. SA to Chairperson, CEA
3. SA to Member (PS), CEA

Standard Operating Procedure for Restoration of the Transmission System

Contents

1.OBJECTIVE

To establish a structured plan to quickly restore damaged transmission systems, protect personnel, and strengthen power system resilience.

2.SCOPE

This SOP applies to all substations and associated transmission infrastructure—including transmission lines, transformers, switchyards, protection & control systems, and communication systems—located in high-risk or vulnerable zones.

3. EMERGENCY PREPAREDNESS

1. **Manpower Availability**
    - Ensure presence of Substation In-charges, Transmission Line Engineers, Control Centre Operators, and Circle/Division Heads at their respective locations.
2. **Access Control**
    - Regulate entry at all Substations, Headquarters, Control Centres, and other critical offices.
    - Only authorized personnel with valid gate passes, government-issued IDs, and approval from respective in-charges should be permitted.
3. **Emergency Contact Display**
    - Prominently display essential contact numbers, including Police, District Administration, Hospitals, and Fire Stations at all key locations.
4. **Inventory and Spares Readiness**
    - Maintain adequate stock of critical spares including ICTs, Reactors, GIS spares, and other essential equipment.
5. **System Health and Resource Availability**
    - Ensure the following
        - Protection systems, DG sets, and firefighting systems.
        - Sufficient diesel for at least 7 days operation of DG sets and firefighting pumps.
        - Critical spares, Tools & Plants (T&P) in operational condition.
        - 24x7 availability of at least two executives in substations without residential colonies.
        - Adequate stock of food supplies, medicines, and first-aid kits.
        - Manpower, fitters, and vehicles on standby for emergency deployment.

6. **Mock Drills and Coordination**
    - Substation In-charges to coordinate with District Authorities, SDMA/NDMA etc. for conducting regular mock drills and preparedness exercises.
    - Identify critical substations (criteria at annexure) for prioritising the preparatory actions.
7. **Emergency Response Teams**
    - Identify and ensure availability of at least: 5 erection gangs, 2 stringing gangs, and 2 foundation gangs.
8. **Vendor Readiness**
    - Identify and empanel vendors/agencies for:
        - Hiring of Hydra/Crane
        - Material transportation
        - Restoration of towers, ERS, transformers, and reactors
        - OEM service support engineers

4. CRISIS RESPONSE TEAM (CRT)

Each utility shall form a CRT responsible for managing emergency situations and ensuring rapid system restoration. The CRT shall comprise the following key roles:

- **Team Head** – To be designated at the level of Chief Engineer or Director or CMD; responsible for overall command and decision-making.
- **Technical Head** – Minimum rank of Superintending Engineer; responsible for assessing damage and leading technical restoration efforts.
- **Logistics Coordinator** – Head of Procurement; responsible for timely availability and movement of critical equipment and spares.
- **Safety & Security Officer** – Head of Safety; responsible for ensuring site safety, personnel security, and risk mitigation.
- **Communications In-Charge** – Head of Communications; responsible for internal and external communication, including media coordination.
- **Liaison Officer** – Head of HR; responsible for coordination with external agencies and addressing staff welfare during emergencies.

All respective functional heads shall provide full support to the **Technical Head** to enable the fastest possible restoration of infrastructure and services.

5. CRISIS MANAGEMENT STAGES

5.1 Damage Assessment and Initial Response (Responsibility: Substation/Line Incharge)

A. Immediate Actions (within 0–1 hours of incident, depending on the site condition):

- Isolate substation and trip affected lines (if required) via remote/local SCADA.
- Initiate ground assessment using Camera or local teams (as per site condition).
- Inform Corporate Emergency Command Centre (At Head Quarters) and Head of CRT.
- Deploy Assessment Teams with PPE (Personnel Protective Equipment) and GPS after obtaining necessary clearances.
- Declare Level of Emergency:
    - *Level I*: Localized damage (e.g., one bay, single transformer, single location)
    - *Level II*: Partial damaged (e.g., switchyard + comms; without element outage)
    - *Level III*: Major substation/area-wide damage (multiple tower locations/ multiple equipment)

B. Damage Reporting:

- Photograph and geotagged reports
- Categorization of damage:
    - *Structural* – foundation, gantries
    - *Electrical* – transformers, CT/PT, breakers, isolators
    - *Communication* – PLCC, OPGW, routers
    - *Transmission lines* – towers, conductors, insulators

5.2 Resource Mobilization (6–12 hours) (Responsibility: Technical Head)

A. Spares Availability Check (within 3 hours):

- Regional stores: Transformer banks, CT/PT, Breakers
- Fetch real-time spares availability
- Contact Vendor for balance items

B. T&P and Machinery (through already identified sources)

- Mobile Cranes, Jacking Systems
- High-Capacity Oil Filtration Units
- Hydraulic Tools, Welding Units
- Manlift etc

C. Transportation and Logistics:

- Coordinate with state authorities for clear corridor.
- Liaison with authorities for movement permissions
- Arrange Transportation through identified sources, accompany with escorts

D. Manpower Mobilization:

- Identification, retention and mobilisation planning for Hired Fitters/Labors
- Safety briefing and emergency response training to be given
- Emergency shift roster (3x8 hrs) (as applicable)

5.3 Restoration and Commissioning Plan (Station Incharge) (24 hrs–15 days)

A. Transformers:

- Visual check for tank rupture, bushings, OLTC and extent of damage
- Replace from Hot Spare(If Available)
- In case of partial damage (bushing etc), replace from available spares (bushing etc)
- In case of non availability of Hot spare, arrange for Diversion of the nearest available spare.

B. Switchyard Equipment:

- Replace damaged CT/PT/CB/LA from available spares
- Relay coordination and settings validation

C. Communication Systems:

- Re-terminate OPGW if cut
- Replace damaged routers, switches, PLCC equipment from spares stock
- If Remote Control Centre communication is out, start 24x7 shift operations
- If RLDC/SLDC data is affected, communicate the exceptions on regular basis.

D. Transmission Lines:

- Identify ERS requirement

- Divert nearest ERS and ERS specialist Gang
- Deploy Emergency Restoration Systems (ERS)
- In case of partial damage, replace damaged insulators and conductors

5.4 Testing, Energization and Monitoring (Station Incharge) (24 Hrs-15 days)

- Minimum required pre-energization checks as per requirement
- Test charging of transformers and bays in isolation
- Monitor loading, temperatures, harmonics
- Reinforce security at site
- Setup CCTV/remote surveillance if damaged

6. SUPPORT FUNCTIONS

6.1 Documentation and Reporting (Technical Head)

- Reporting of damage to Head Quarter and Control Centre for onwards reporting to Government/RLDC.
- Daily restoration bulletin to Head Quarter
- Incident log to be maintained

6.2 Coordination with Stakeholders (Liaison Officer)

- Defence and Civil Authorities for access/security
- State Discoms for load shedding support
- OEMs and Vendors for fast-track supply and remote guidance

7. MESSAGE FORMAT AND FREQUENCY

Update Type	Responsibility	Frequency	Recipients
Initial Incident Alert	Substation/Line Incharge	Within 15 mins	CRT, applicable board level executives and Chairman
Damage Assessment Report	Substation /Line Incharge	Within (1-6 hrs)	CRT, Control Centre
Restoration Progress	Head of Region/Division	Twice Daily	CRT, applicable board level executives and Chairman
Security and	Head of	Daily (till	All senior stakeholders

Update Type	Responsibility	Frequency	Recipients
Safety Summary	Regional HR	restoration)	

Note: The above document shall be read in conjunction with the Disaster Management Plan.

Annexures:

1. **Criteria for Critical Substations**
2. **List of Spare Transformers**
3. **List of Spare Reactors**
4. **List of ERS towers available.**
5. **List of GIS Spares**
6. **List of CRT members with Contact details.**

Criteria for specifying a station as critical station

A power station shall be specified as " Critical Power Station" if it falls under one of the below mentioned classification:

1. 400 kV and above Substations falling within 100 km of the border.

2. Important for Grid security:
   i. The converter stations of all HVDC links along with their associated HVAC station.
   ii. All 765 kV Stations.
   iii. All stations at voltage level 400 kV and above where inter-regional lines terminate or are important for import of power by any specific state
   iv. All stations which handle more than 3000 MW of power capacity.

3. Falling in disaster prone areas/border areas and probable to be affected by floods, cyclones, landslides, movement of air force, war etc.

4. All or selected stations at 400 kV and above voltage level which are essential to ensure continuity of supply to following category of loads as per information furnished by State Load Despatch Centre and DISCOMs:
   i. State capitals
   ii. Railways, metro rail, airports, refineries, underground mines, defence establishments. VIP areas, Space, ports and important industries.
   iii. Important for islanding scheme of nuclear power plants or major metropolitan areas or defence establishments

Availability of Spare Transformers

Sl No.	Voltage	Capacity	Phase	Total	Location

Availability of Spare Reactors

Sl No.	Voltage	Capacity	Phase	Total	Location

Availability of ERS

Total ERS TOWERS					
State	**Voltage Level**	**Total ERS towers**	**ERS Towers available location wise**	**ERS set**	**Location**

Availability of GIS Spares

GIS Spares					
State	**Voltage Level**	**Make**	**Section Type(Isolator/Bus/etc)**	**Nos**	**Location**

****

Address List:

Sl. No.	Address	Tele/Fax No./Email
1.	Spl. Chief Secretary (Energy) Government of Andhra Pradesh AP Secretariat Velagapudi : 522003 Andhra Pradesh Ph.0863-2442309	secvenergyap@gmail. com
2.	Commissioner-cum-Secretary (Power), Government of Arunachal Pradesh, Civil Secretariat Itanagar 791111	secvpower.arn@gmail.com commissionerpower.arn@gmail.com
3.	Pr. Secretary (Power) Government of Bihar Urja Vibhag,	energv@bihar.gov.in energvbihar@gmail.com

	Daroga Prasad Rai Path Patna - 800001	
4.	Secretary (Power) Government of Assam Assam Sachivalaya Dispur - 781006	nv.principalsecretaryassam@gmail.com prsecv-cm@assam.gov.in power.assam@gov.in
5.	Secretary (Power) Government of Chhattisgarh Mantralaya, Atal Nagar Naya Raipur-492002	chairman@cspc.co.in secy-cmo.cg@gov.in
6.	Secretary (Power) Government of Goa Secretariat Porvorim-403521	sect-cmo.goa@nic.in, cs-goa@nic.in
7.	Principal Secretary (Energy) Government of Gujarat Block No.5/5, New Sachivalaya Gandhinagar-382010	secepd@guiarat.gov.in
8.	Addl. Chief Secretary (Energy) Government of Haryana New Secretariat, Sector-17 Chandigarh - 160017	pscmofficehry@gmail.com acspowerhrv@gmail.com
9.	Chief Secretary Government of Himachal Pradesh H.P. Secretariat Shimla - 171002	powersecv-hp@nic.in
10.	Secretary (Do WR,RD&GR) Shram Shakti Bhawan, Rafi Marg, New Delhi - 110001	Secy-mowr@nic.in

11.	Addl. Chief Secretary (Energy) Government of Jharkhand MDI Building, Dhurwa Ranchi - 834004	psec.energy@gmail.com
12.	Addl. Chief Secretary (Energy) Government of Karnataka Vikas Soudha, Dr. Ambedkar Road, Bangalore - 560001	prs-energy@karnataka.gov.in prs.energy@gmail.com
13.	Principal Secretary (Power Government of Kerala Secretariat, Thiruvananthapuram - 695 001	Secy.pwr@kerala.gov.in
14.	Addl. Chief Secretary (Energy) Government of Madhya Pradesh Mantralaya, VallabhBhawan Bhopal - 462001	secvenergy@mp.gov.in urjavibhag@yahoo.co.in
15.	Addl Chief Secretary (Energy) Government of Maharashtra Mantralaya Mumbai 400032	secenergy@maharashtra.gov.in psec.energy@maharashtra.gov.in
16.	Secretary (Power) Government of Manipur New Secretariat Imphal 795001	kh.raghumani@nic.in secy.powermnp@gmail.com
17.	Commissioner & Secretary (Power) Government of Meghalaya Meghalaya Civil Secretariat, Shillong - 793001	eddiekharbhih@gmail.com sanjaygoyal.ias@gmail.com
18.	Secretary (Power) Government of Mizoram Mizoram Secretariat Aizwal 796001	spower.mizo@gmail. com

19.	Principal secretary (Energy) Room no 16 2nd Floor Dr B.R Ambedkar Telengana Secretariat Hyderabaad-500022	Prlsecv_enery@telangana.gov.in Prlsecy.energy@gmail.com
20.	Secretary Power Development & Non- Renewal Energy Department. The Administration of UT of Ladakh-494101	Secy.pddnre@gmail.com, cepdladakh@gmail.com
21.	Commissioner & Secretary (Power) Government of Nagaland New Secretariat Complex Kohima 797004	secrevpower-ngl@nic.in Nagaland.dopn@gmail.com
22.	Principal Secretary (Energy) Government of Odisha Secretariat Bhubaneshwar 751001	energy@nic.in secy.energy@odisha.gov.in
23.	Principal Secretary (Energy) Government of Punjab Punjab Civil Secretariat Sector-9, Chandigarh 160009	secy.power@puniab.gov.in
24.	Addl. Chief Secretary (Energy) Government of Rajasthan Secretariat Jaipur - 302005	prsecretary@gmail.com ps.energy@rajasthan.gov.in
25.	PCE-cum-Secretary (Power) Government of Sikkim Secretariat, Kazi Road	secypower.sikkim@gmail.com acepowersikkim@gmail.com

	Gangtok 737101	
26.	Pr. Secretary (Energy) Government of Tamil Nadu Secretariat Chennai - 600009	enersec@tn.gov.in
27.	Spl. Chief Secretary (Energy) Government of Telangana Dr. B.R. Ambedkar Telangana Secretariat Hyderabad - 500033	Prlsecy_enegy@telangana.gov.in
28.	Secretary (Power) Government of Tripura New Secretariat Complex Agartala - 799010	secv.power-tr@gov.in secvpower.tr2023@gmail.com
29.	Addl. Chief Secretary (Energy) Government of Uttar Pradesh U.P. Secretariat, Bapu Bhawan Lucknow - 226001	psecup.energy@nic.in acsenergyup@gmail.com
30.	Secretary (Energy) Government of Uttarakhand Secretariat, Subhash Road Dehradun 24800	energy.secy.uk@gmail.com pssecretary76@gmail.com
31.	Secretary (Power) Govt, of West Bengal Vidyut Unnayan Bhawan Salt Lake City, Kolkata 700098	powersecv@wb.gov.in

32.	Secretary (Power) Andaman & Nicobar Administration Secretariat Port Blair 744101	secretary201ani@gmail.com
33.	Secretary (Power) Chandigarh UT Administration UT Secretariat, Sector-9D Chandigarh 160009	fs-chd@nic.in fsutchd@gmail.com
34.	Secretary (power) UT Admn. of Dadra & Nagar Haveli and Daman & Diu Secretariat Moti Daman - 396220	secretarypower2020@gmail.com elec-dmn-dd@nic.in
35.	Secretary (Power) Government of NCT of Delhi Delhi Secretariat, I.P. Estate New Delhi - 110002	pspowen@nic.in
36.	Pr. Secretary (Power) Government of Jammu & Kashmir Civil Secretariat Jammu - 180001	jkpdd9@gmail.com, pdd-jk@nic.in
37.	Secretary (Power) Union Territory of Lakshadweep Secretariat Kavarati 682555	vikranth.raja@nic.in mdldcl2278@gmail.com lk-ktelect@nic.in

38.	Member Secretary, Northern Regional Power Committee, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi-110 016	ms-nrpc@nic.in
39.	Member Secretary, Western Regional Power Committee, Plot No. F-3 MIDC, Area, Marol, Opp. SEEPZ, Central Road, Andheri(East), Mumbai- 400093	ms-wrpc@nic.in
40.	Member Secretary, Southern Regional Power Committee, 29, Race Course Cross, Road, Bangaluru- 560009.	mssrpc-ka@nic.in
41.	Member Secretary, Eastern Regional Power Committee 4, Golf Course Road, ERPC Building, Tollygunj, Kolkata- 33.	mserpc-power@nic.in
42.	Member Secretary, North Eastern Regional Power Committee NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006 (Meghalaya)	ms-nerpc@gov.in
43.	Member Projects, National Highway Authority of India, Ministry of Road, Transport & Highways , Govt, of India, G 5&6, Sec-10, Dwarka, New Delhi-110075	Email: chairman@nhai.org; mk.proiects@nhai.org

44.	Chairman & Managing Director, Powergrid Corporation of India Ltd., SAUDAMINI, Plot No.2, Sector-29, Gurgaon, Haryana- 122001.	Email: cmd@powergrid.in
45.	Chief Operating Officer, CTU India Ltd., Saudamini, Plot No. 2, Sector-29, Gurgaon-122001 (Haryana)	Email: coo-ctu@ctuil.in, ashok@powergrid.in
46.	Chairman BBMB, sector-19 B Madhya Marg, Chandigarh- 160019	Email: cman@bbmb.nic.in, cets@bbmb.nic.in, power@bbmb-nic.in, spsecy@bbmb.nic.in, secy@bbmb.nic. in
47.	Chairman & Managing Director, Damodar Valley Corp. Head Quarter, DVC Towers, VIP Road Kolkata - 700054	Email: chairman@dvc.gov.in
48.	Chairman & Managing Director	cmd@nlcindia.in

	Neyveli Lignite Corporation Limited Corporate Office, Block - 1, Neyveli-607801	
48.	Chairman & Managing Director, Delhi Transco. Ltd., Shakti Sadan, Kotla Marg, New Delhi- 110002	md@dtl.gov.in gmoml.dtl@gmail.com
49.	Chief Engineer (Elect.) Goa Electricity Department Vidyut Bhawan, Panaji, Goa	cee-elec.goa@nic.in, eel-elec.goa@nic.in
50.	Chairman Haryana Vidyut Prasaran Nigam Ltd. Shakti Bhawan,Sector No. 6 Panchkula - 134 109, Haryana	chairman@hvpn.org. in
51.	Managing Director, Jammu & Kashmir Power Transmission Corporation Ltd. Exhibition Ground, Srinagar(J&K)-190 009	md@ikspdcl.com, mdikptcll@gmail.com
52.	Chairman Karnataka Power Corporation Ltd. Shakti Bhawan, 82 Race Course Road Bangalore-560 001..	mdkpcl@gmail.com, md@kptcl.com
52.	Chairman Kerala State Electricity Board Board, Secretariat, Vidyuthi Bhavanam, Pattom Thiruvananthapura m- 695 004	cmdkseb@kseb.in
53.	Chairman & Managing Director Maharashtra State Electricity Transmission Company Ltd.,	md@mahatransco.in, dirop@mahatransco.in

	C-19, E-Block, Prakashganga, Bandra-Kurla Complex Bandra(E), Mumbai 400 051	
54.	Chief Engineer (P) Manipur Electricity Department Govt, of Manipur, Manipur Sectt. South Block, Imphal, Manipur- 795 001.	snandei@gmail.com, md.mspcl@gmail.com ed.tech.mspcl@gmail.com
55.	Chairman & Managing Director, Meghalaya Energy Corporation Ltd.. Lumjingshai Short Round Road Shillong- 793 001	meecl.webportal@gmail.com, directormeptcl@gmail.com, cetranzemeptcl@gmail.com, apborkharpan@gmail.com
56.	The Engineer-in- Chief, Power and Electricity Deptt., Govt, of Mizoram, Power House, Bara Bazar, Aizwal- 796 001, Mizoram	eincpower@gmail.com, eincplanning@gmail.com, mizoplan@gmail.com
57.	Chief Engineer, Nagaland Deptt. of Power, Kohima 797 001. Nagaland	secvit-ngl@nic.in, vizol23@gmail.com, cetransgen@gmail.com, asang.dcare@gmail.com
58.	Chairman & Managing Director Punjab State Transmission Corporation Ltd., The Mall, Mall Road, Patiala- 147 001, Punjab	cmd@pstcl.org
59.	Chairman & Managing Director Rajasthan RajyaVidyutPrasara n Nigam Ltd. VidyutBhawan, Janpath . . Jaipur (Rajasthan)- 302 005	cmd.rvpn@gmail.com, dir.oper@rvpn.co.in
60.	Managing Director	sikkim.serc@gmail.com

	Sikkim Power Development Corporation Ltd. 31-A, N.H. Way, Gangtok- -737 101	
61.	Chairman & Managing Director Uttar Pradesh Power Transmission Corporation Ltd. Shakti Bhawan, 14- A, Ashok Marg, Lucknow- 226001	cmd@upptcl.org
62.	Commissioner- cum-Secretary (P) Andaman and Nicobar Electricity Department, Secretariat, Andaman and Nicobar Islands, Port Blair- 744 101	secvship14@gmail.com secretary201ani@gmail.com
63.	Secretary Dadra & Nagar Haveli Electricity Department, Dadar Nagar Secretariat, Silvassa- 396230	tapasvaraghav@gmail.com
64.	Secretary, Daman & Diu Electricity Department, Dadar Nagar Secretariat, Moti Daman- 396220	secretarvpower2020@gmail.com
65.	Secretary Lakshyadeep Elecy Department, U.T. of Lakshyadeep Kavaratti- 682555	lk-ktelect@nic.in
66.	Secretary ' Puducherry Elecy. Department Secretariat, Puducherry- 605001	secycs.pon@nic.in ' secytran.pon@nic.in

67.	Chairman & Managing Director Orissa Power TransmissionCorpo ration Ltd. Janpath, Bhubaneswar- 751 022.	cmd@optcLco.in, dir.operation@optcl.co.in
68.	Chairman Jharkhand, Urja Sancharan Nigam Ltd. Engineering Building, HEC, Dhurwa, Ranchi- 834 004	mddjusnl@gmail.com,
69.	Chairman West Bengal State Electricity Transmission Company Ltd (WBSETCL) Vidyut Bhawan, Block-DJ, Sector-II, Bidhan Nagar, Kolkata- 700 091.	md@wbsetcl.in
70.	Managing Director Bihar State Power Transmission Company Limited, 4th Floor, Vidyut Bhawan, Baily Road, Patna- 800 021	mdcellbsptcl@gmail.com
71.	Chairman and Managing Director Gujarat Energy Transmission Corporation Ltd. Sardar Patel Vidyut Bhawan, Race Course , Vadodara- 390 007	md.getco@gebmail.com
72.	Managing Director Madhya Pradesh, Power Transmission Company Ltd. Block No. 2, Shakti Bhawan,	md@mptransco.nic.in

	Rampur, P.O. Vidyut Nagar Jabalpur-482 008(MP)	
73.	Managing Director Himachal Pradesh Power Transmission Corporation Ltd. Near, Shimla Bypass (below Old MLA Quarters, Tutikandi, Panjari, Himachal Pradesh 171005.	md@hpptcl.in
74.	Chief Engineer (Power) Department of Power Govt, of Arunachal Pradesh Itanagar (Arunachal Pradesh) - 791 111.	vidvutarunachal@rediffmail.com, vidyutarunachal@gmail.com
75.	Chief Engineer(Transmission) Transmission Corporation of Andhra Pradesh Ltd. VidyutSoudha, Gunadala Eluru Road, Vijaywada Andhra Pradesh - 520 004	surendrababu.karreddula@aptransco.co.in, ce.trans@aptransco.gov.in
76.	Chairman & Managing Director Transmission Corporation of Telangana Ltd. Vidyut Soudha, Khairatabad, Hyderabad - 500082	cmd@tstransco.in
77.	Managing Director Assam Electricity Grid Corporation Ltd., Bijulee Bhawan, Paltan Bazar Guwahati- 781 001	managing.director@aegcl.co.in, md_aegcl@yahoo.co.in.
78.	Chairman & Managing Director Tripura State Elecy. Corporation Ltd.	cmd.tsecl@rediffmail.com

	Govt, of Tripura, Bidyut Bhawan Agartala-799 001.	
78.	Managing Director Power Transmission Corporation of Uttarakhand Ltd. Vidyut Bhawan, Saharnpur Road, Near I.S.B.T. Crossing, Dehra Dun, Uttarakhand - 248002	md.ptcul@rediffmail.com, md@ptcul.org
79.	Managing Director TANTRANSCO, 10th Floor/NPKRR Malikai, No. 144 Anna Salai, Chennai- 600002	mdtantransco@tnebnet.org
80.	Managing Director Chhattisgarh State Power Transmission Company Ltd., Dangania, Post Sunder Nagar Raipur - 492013.	chairman@cpsc.co.in mdtransco@cspc.co.in
81.	Shri E.V. Rao, KEC International Limited, RPG House, 463, Dr. Annie Besant Road, Worli, Mumbai-4000 030	kecindia@kecrpg.com
82.	Shri Kaushal Thakkar, Manager, Kalpataru Power Transmission Ltd., Plot No. 101, Part III,GIDC Estate, Sector 28, Gandhinagar-382028, Gujarat	kaushal.thakkar@kalpatarupower.com thakkarkaushal86@yahoo.com
83.	Shri Chanchai Kumar, Managing Director,	md@nhidcl.com, edl@nhidcl.com

	National Highways & Infrastructure Development Corporation Ltd(NHIDCL), 3rd Floor, PTI Building, 4-Parliament Street, New Delhi - 110001	
84.	Head- Corporate Affairs & Business Devpt. Sterlite Grid Limited, The Mira Corporate Suite, Plot No. 1 & 2, C Block, 2nd Floor,Ishwar Nagar, Mathura Road, New Delhi 110 065	tan.reddy@sterlite.com kamlesh.garg@sterlite.com arun.sharma1@sterlite.com
85.	Sekura Energy Ltd CEO, Windsor, 504 & 505, Off, CST Road, Kalina, Santacruz (E, Mumbai, Maharashtra 400098	Neeraj.Verma@energy-sel.com Nimish.Sheth@energy-sel.com
86.	Essar Power Sh. Partha Bhattacharya, 27th KM, Surat Hazira Road, District Surat, Hazira, Gujarat 394270	Tamendra.Kumar@essarpower.co.in, Rajive.Tiwari@essarpower.co.in, Raiat.Bajpai@essarpower.co.in, khilendra.pant@essarpower.co.in,
87.	CEO, Suzlon Energy Ltd Suzlon House, 5 Shrimali Society, Navrangpura, Ahmedabad 380009, India.	Email: mca@suzlon.com; info-india@suzlon.com;
88.	Mr. Vijay Chhibber, Director General, Electric Power Transmission association, Core 6- A, Ground Floor India, Habitat Centre, Lodi Road, New Delhi - 110 003.	epta.dg@gmail.com, dg.epta@epta.in,
89.	CMD,	isrmivaskumar@meilgroup.in

	M/s Megha Engineering & Infrastructures Ltd., S-2, Technocrat Industrial Estate, Balanagar, Hyderabad - 500 037	
90.	Chairman & Managing Director Reliance Power, Reliance Centre, Ground Floor, 19, Walchand Hirachand Marg, Ballard Estate, Mumbai 400001	reliancepower.ipo@relianceada.com
91.	Kalpataru Power Transmission Ltd., 101, Kalpataru Synergy, Opp. Grand Hyatt, Vakola , Santacruz (E), Mumbai 400055. India.	milind.nene@kalptarupower.com kaushal.thakkar@kalpatarupower.com thakkarkaushal86@yahoo.com ajay.tripathi@kalpatarupower.com
92.	Director, Torrent Power Ltd., Electricity House, Lal Darwaja, Ahmedabad - 380 001.	NAMANSHAH@torrentpower.com kaushal.thakkar@kalpatarupower.com kashyapdesai@torrentpower.com MAYANKGUPTA@torrentpower.com VATSALPATEL@torrentpower.com BIPINBSEIAH@torrentpower.com
93.	Chairman & Managing Director, KEC International Limited,. RPG House, 463, Dr. Annie Besant Road,Worli, Mumbai - 400030	kecindia@kecrpg.com

94.	Chairman and Managing Director, M/s Juniper Green Transmission Private Limited F-9 First Floor, Manish Plaza-1, Plot No. 7, MLU, Sector 10, Dwarka, New Delhi South West Delhi DL 110075	rohit.gera@junipergreenenergy.com rohit.gera91@gmail.com
95.	Chairman & Managing Director, M/s ReNew Transmission Ventures Private Limited ReNew , Commercial Block-1, Zone 6, Golf Course Road DLF City Phase-V, Gurugram-122009, Haryana	mohit.jain@renewpower.in, anuj.iain@renewpower.in amit.kumar1@renewpower.in
96.	Chairman & Managing Director, M/s Apraava Energy Private Limited 7th Floor, FULCRUM, Sahar Road, Andheri (East), Mumbai - 400 099. India.	sumit.sinha@apraava.com naveen.munjal@apraava.com roshni.shah@apraava.com
97.	L&T Infrastructure Development Projects Limited (L&T ID PL), L&T campus TCTC building , First Floor, Mount Poonamalle Road, Manapakkam, Chennai-600089, Tamil Nadu, India.	contactus@lntidpl.com csr@lntecc.com
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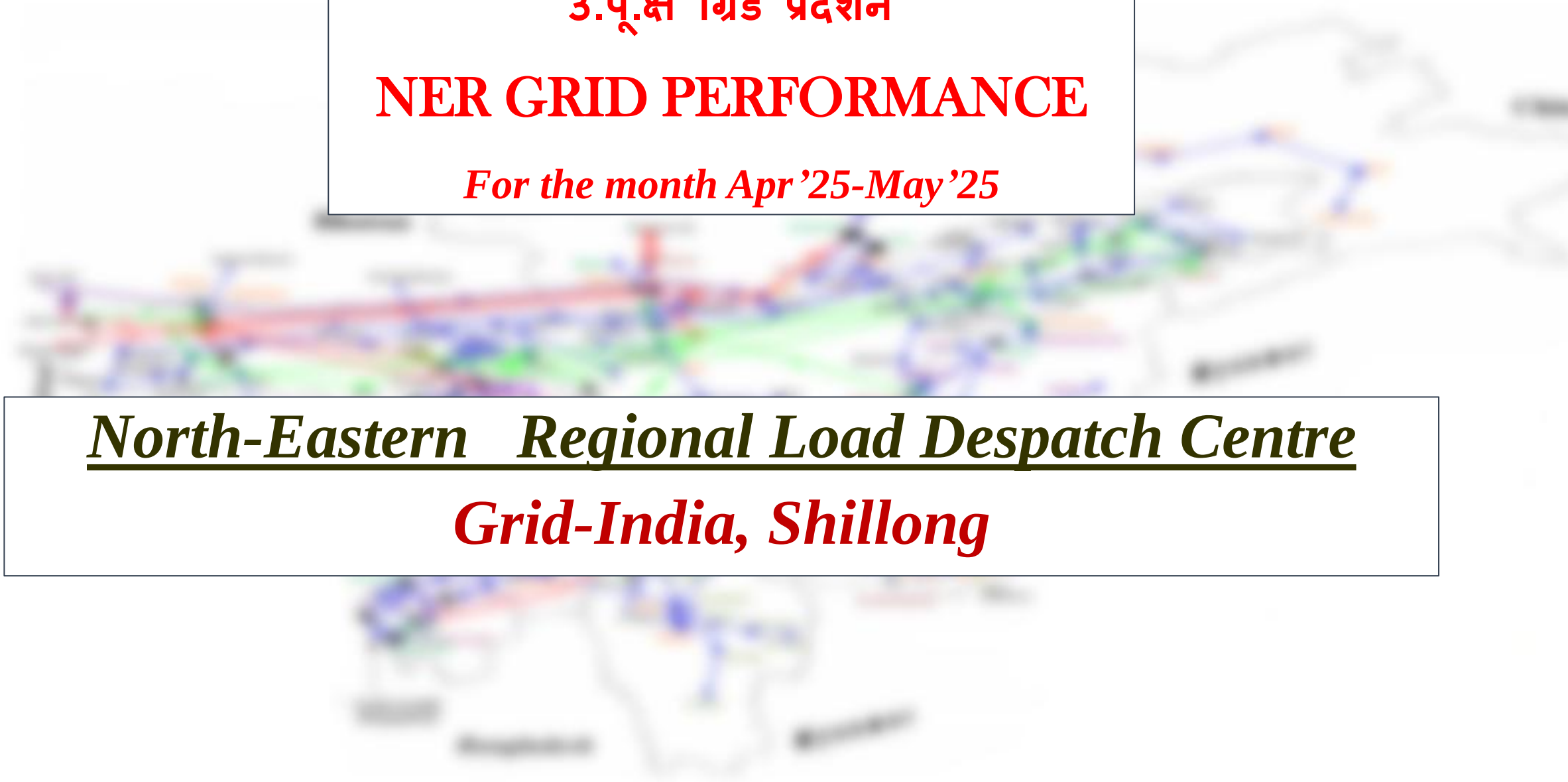
		piyushkumar@tatapower.com
99.	Director, M/sGR Infraproject Limited G R INFRAPROJECTS LIMITED2nd Floor, Novus Tower, Plot No. 18, Sector 18,Gurugram, Haiyana - 122015, India	modassar.a@grinfra.com ashwin@grinfra.com akul.s@grinfra.com
100.	MD & CEO Adani Transmission Ltd 3rd Floor, South Wing, Adani Corporate House,ADANI Shantigram, S. G. Highway, Ahmedabad - 382 421.	MolavKumar.Maitra@adani.com sameer.ganiu@adani.com, Narendran.Qiha@adani.com sunnykumar.singh@adani.com
101.	Head & VP - Regulatory & Contracts) Regulatory & Contracts) IndiGrid Unit No. 101, First Floor, Windsor, Village KoleKalyan, off CST Road, Vidyanagari Marg, Kalina, Santacruz (East), Mumbai - 400 098	venkatraman.inumula@indigrid.com vivek.karthikeyanl@indigrid.com

Annexure 2.5

उ.पू.क्षे ग्रिड प्रदर्शन

NER GRID PERFORMANCE

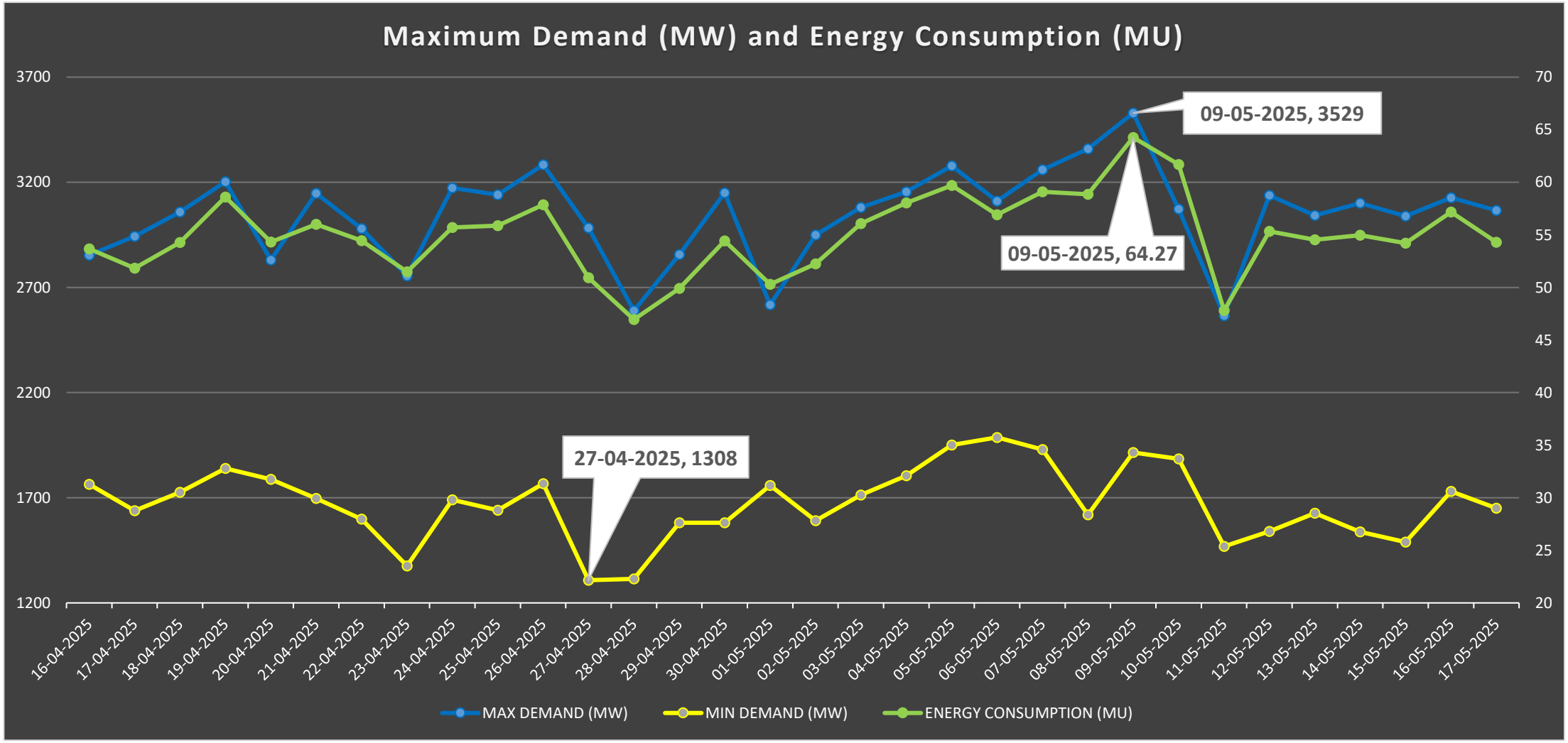
For the month Apr'25-May'25



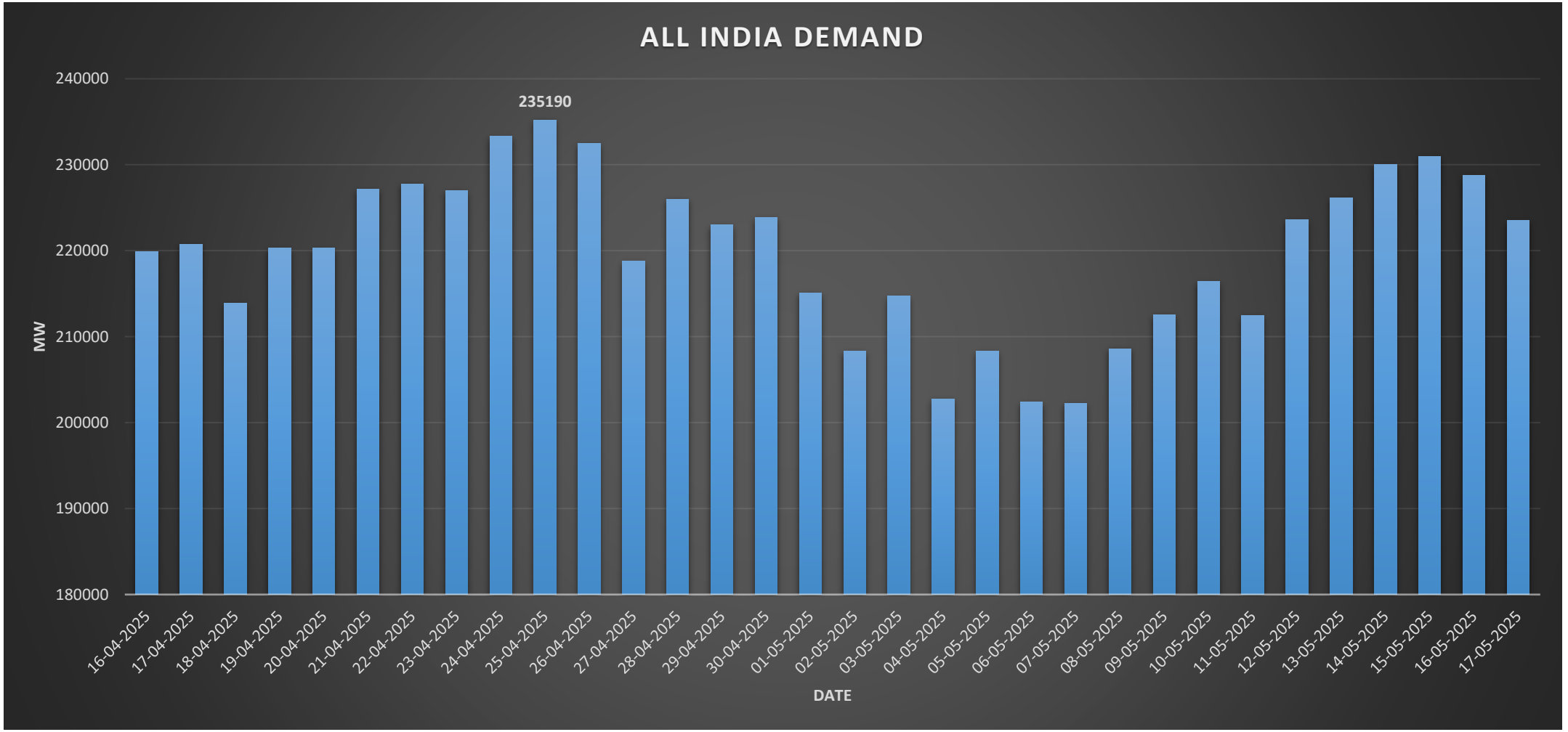
North-Eastern Regional Load Despatch Centre

Grid-India, Shillong

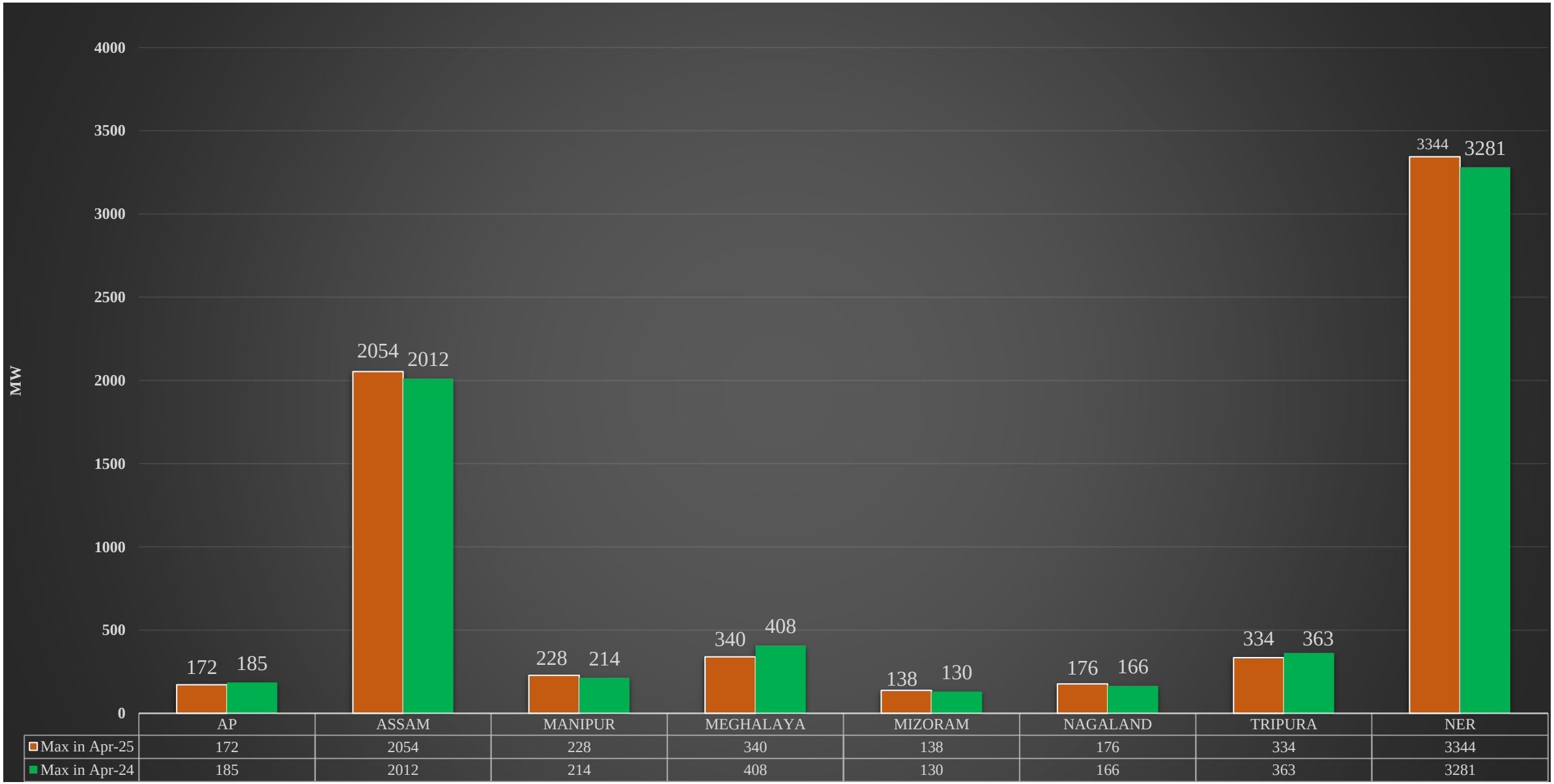
Maximum MW and MU in NER: 16th Apr'25– 17th May'25



Maximum All India Demand: 16th April'25– 17th May'25

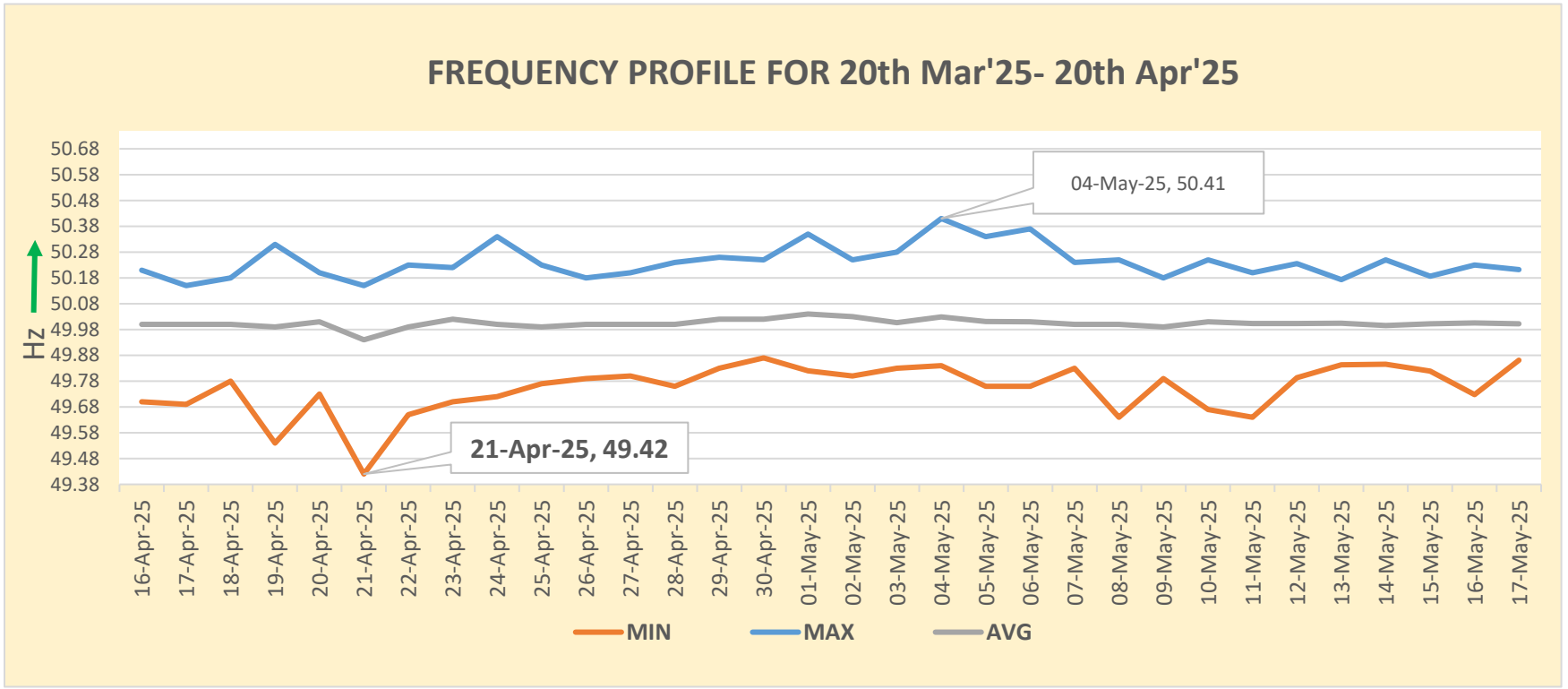


Y-o-Y Maximum Demand Met



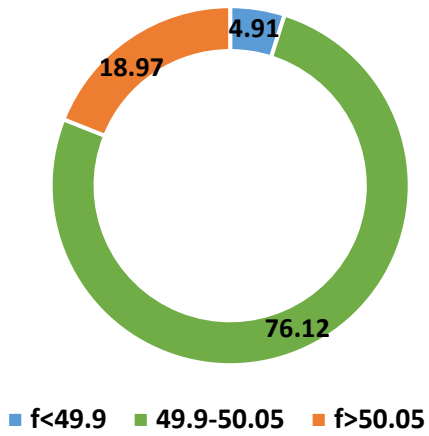
	AP	ASSAM	MANIPUR	MEGHALAYA	MIZORAM	NAGALAND	TRIPURA	NER
Max in Apr-25	172	2054	228	340	138	176	334	3344
Max in Apr-24	185	2012	214	408	130	166	363	3281

Frequency Profile



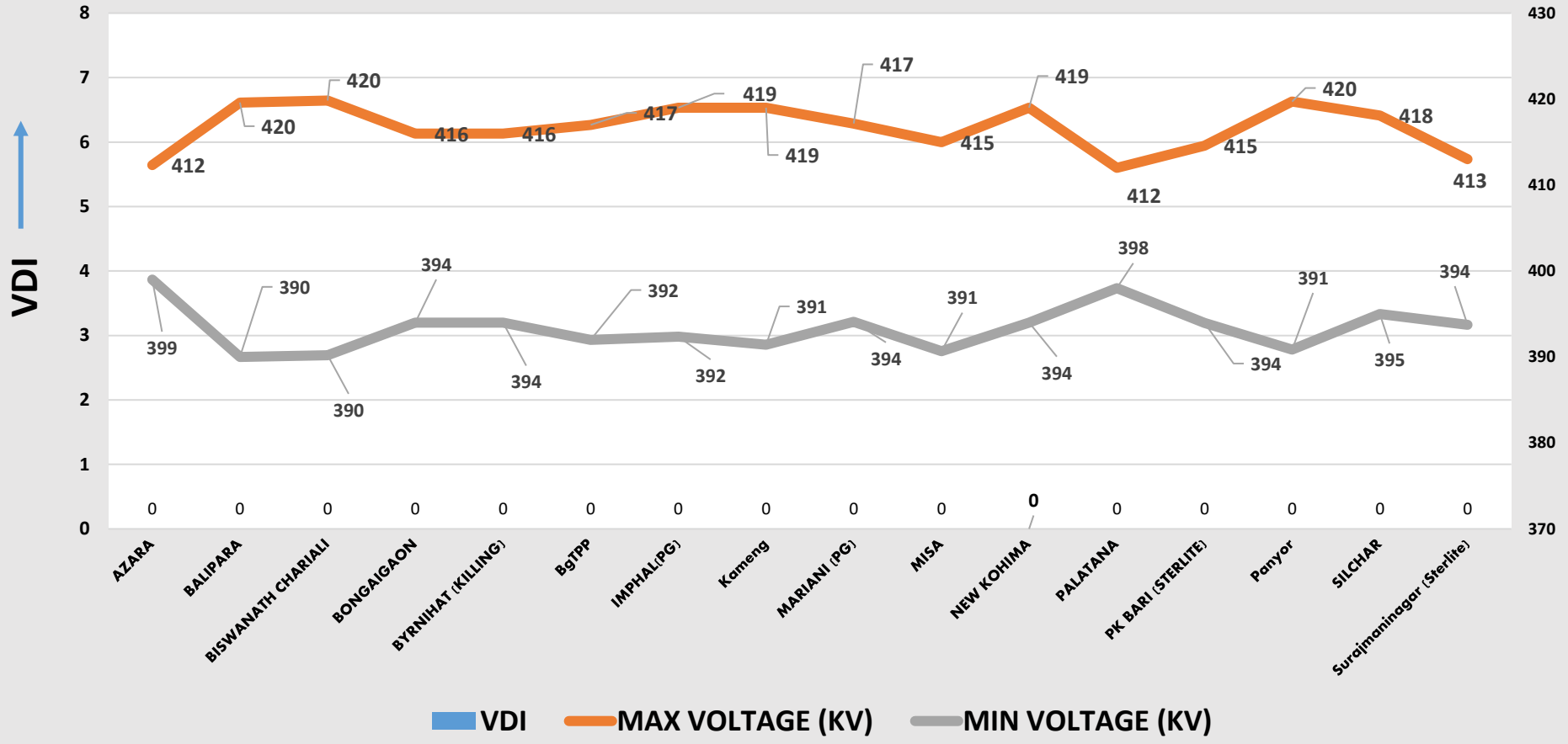
50.41 Hz on 04-May-2025: Due to the non-availability of down margin and All India lower demand.

49.42 Hz on 21-April-2025: Due to high All India demand and non-availability of reserves up margin

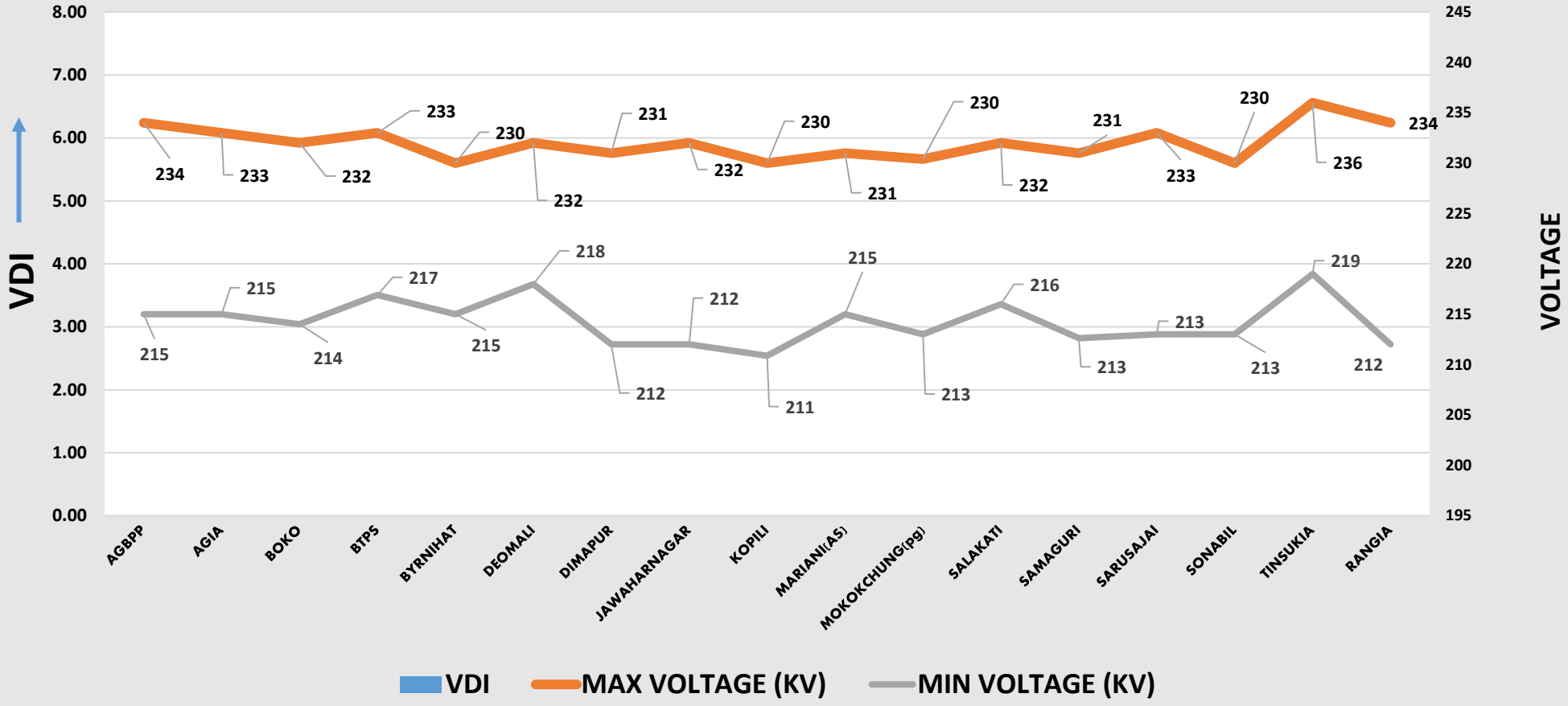


VDI (400 KV) for April 2025

No. of 400 kV lines kept open for over voltage : 0



VDI (220 KV) for April 2025



Projected Hydro Generation Availability

Plants	Reservoir Level in meters (as on 17/05/2025)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong STG II	716.8	19.58	0.555	35
Kopili	606.95	80	1.210	66
Doyang	306.95	1.30	0.102	13
Loktak	766.57	15	0.318	47

Grid Disturbance during April'25

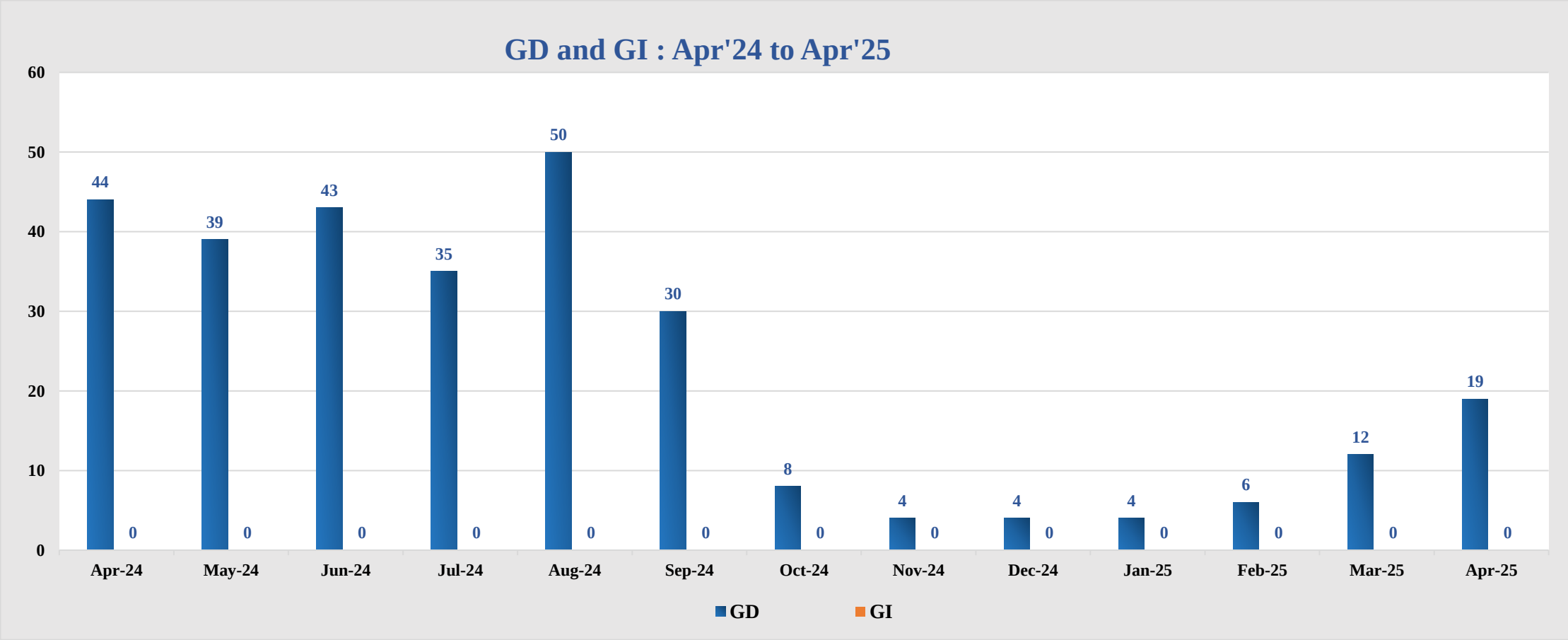
No. of GD	19
No. of GI	0

Sl No	Area Affected	GD	Date & Time
1	Grid Disturbance in Umiam area of Meghalaya Power System	GD-I	4/1/2025, 1:55
2	Grid Disturbance in Rengpang area of Manipur Power System	GD-I	4/5/2025, 21:12 Hrs
3	Grid Disturbance in Tuirial HEP of NEEPCO & Kolasib and Bairabi areas of Mizoram power system	GD-I	4/7/2025, 3:34 Hrs
4	Grid Disturbance in Ziro, Daporizo, Basar, Along, Pasighat, Napit, Niglok, Roing, Tezu and Namsai areas of Arunachal Pradesh	GD-I	4/10/2025, 12:38 Hrs
5	Grid Disturbance in Dharmanagar area of Tripura Power system	GD-I	4/10/2025, 13:22 Hrs
6	Grid Disturbance in 400/132 kV Kameng S/S, Khupi and Seppa areas of Arunachal Pradesh power system	GD-I	4/17/2025, 0:01 Hrs
7	Grid Disturbance in Monarchak Generation of NEEPCO & Rabindranagar area of Tripura power system	GD-I	4/17/2025, 12:49 Hrs
8	Grid Disturbance in 132 kV Kameng S/S of NEEPCO & Khupi and Seppa areas of Arunachal Pradesh Power system	GD-I	4/17/2025, 13:58 Hrs
9	Grid Disturbance in Zuangtui, Serchhip and Saitual areas of Mizoram power system	GD-I	4/17/2025, 15:16 Hrs

Grid Disturbance during April'25

Sl No	Area Affected	GD	Date & Time
10	Grid Disturbance in Pasighat, Napit & Niglok areas of Arunachal Pradesh	GD-I	4/22/2025, 0:37 Hrs
11	Grid Disturbance in Pasighat, Napit, Niglok areas of Arunachal Pradesh	GD-I	4/22/2025, 8:02 Hrs
12	Grid Disturbance in Kohima area of Nagaland power system	GD-I	4/23/2025, 16:23 Hrs
13	Grid Disturbance in 132 kV Kameng S/S of NEEPCO & Tenga, Khupi and Dikshi areas of Arunachal Pradesh	GD-I	4/24/2025, 18:15 Hrs
14	Grid Disturbance in Seppa area of Arunachal Pradesh Power System	GD-I	4/24/2025, 15:47 Hrs
15	Grid Disturbance in Tezu and Namsai areas of Arunachal Pradesh power system	GD-I	4/25/2025, 16:11 Hrs
16	Grid Disturbance in Leshka HEP of Meghalaya power system	GD-I	4/27/2025, 2:43 Hrs
17	Grid Disturbance in Leshka HEP of Meghalaya power system	GD-I	4/28/2025, 7:04 Hrs
18	Grid Disturbance in Dharmanagar area of Tripura power system	GD-I	4/28/2025, 9:07 Hrs
19	Grid Disturbance in Churachanpur, Elangkankpokpi, Thanlon, Kakching, Chandel and Morey areas of Manipur and Tamu area Myanmar Power system	GD-I	4/28/2025, 13:43 Hrs

Grid Disturbance/Incidences for last 12 Months



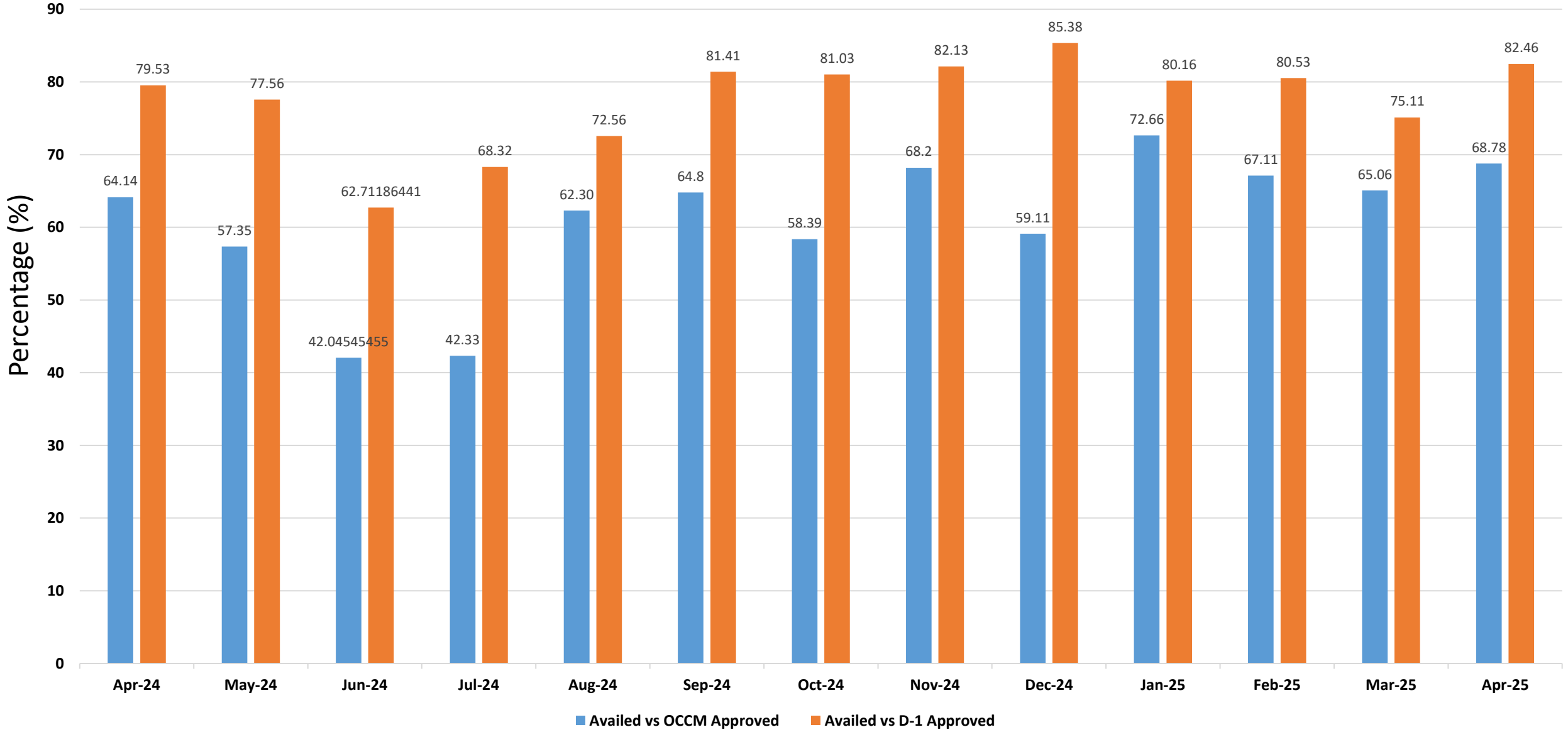
OCC approved shutdown availing status for the month of Apr 2025

SUMMARY OF NER OUTAGE							
MONTH	PLANNED IN OCC	APPROVED IN D-1	AVAILED IN REAL TIME	NOT AVAILED	AVAILED Vs PLANNED %	AVAILED Vs APPROVED %	DEFFERED BY RLDC DUE TO SYSTEM CONSTRAINT
Apr 25	205	171	141	30	68.78	82.46	0

Shutdown Statistics

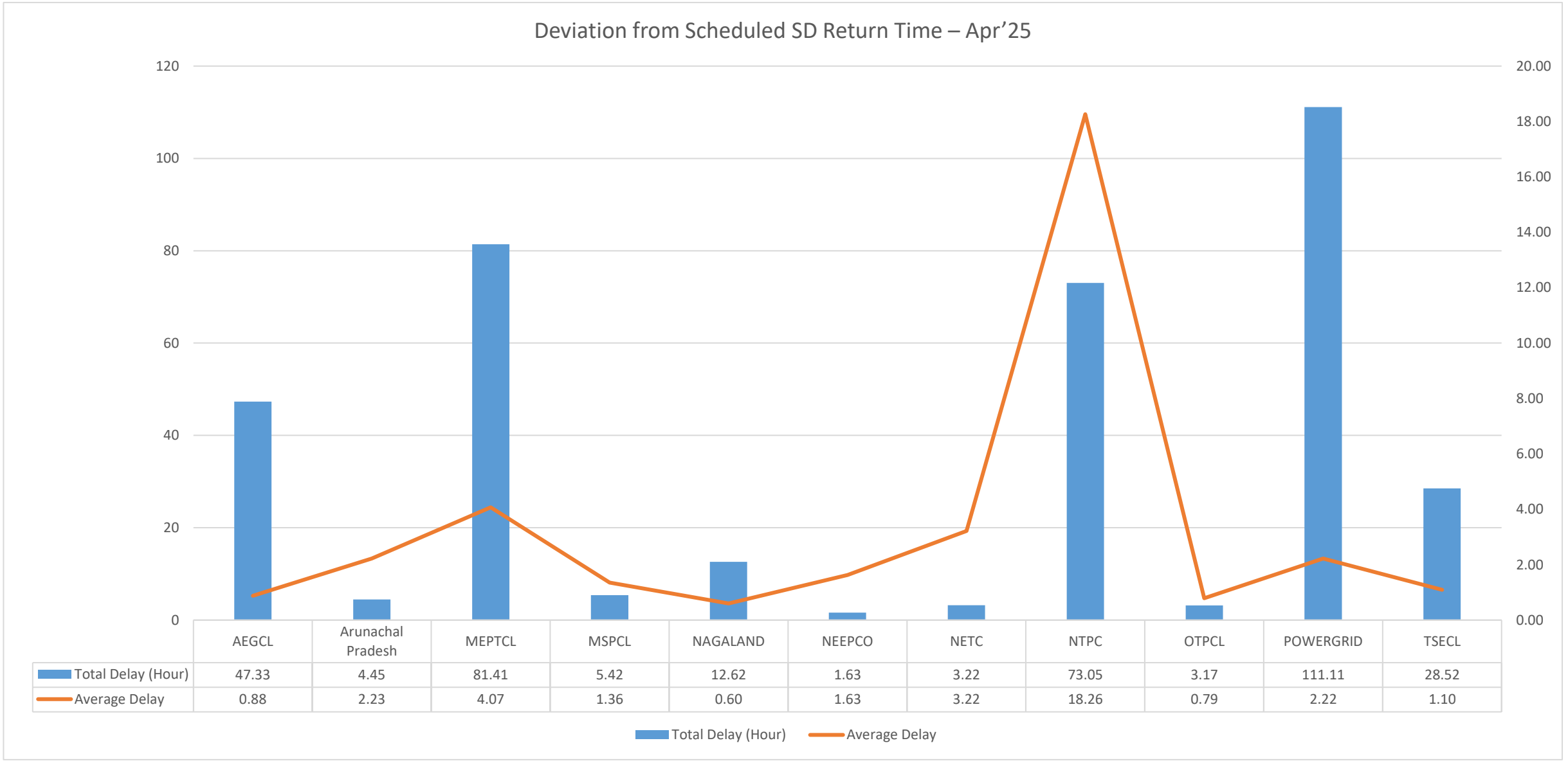
	OCC Approved	D-1 Approved	Availed	Not Availed	RLDC Deferred
NER	205	171	141	30	0
NERTS	86	53	40	13	0
ASSAM	60	60	55	5	0
MANIPUR	0	0	0	0	0
MEGHALAYA	28	28	19	9	0
NAGALAND	26	26	23	3	0
MIZORAM	0	0	0	0	0
TRIPURA	1	0	0	0	0
Arunachal Pradesh	0	0	0	0	0
NETC	1	1	1	0	0
KMTL	0	0	0	0	0
NEEPCO	1	1	1	0	0
NTPC	2	2	2	0	0
OTPC	0	0	0	0	0
INDIGRID	0	0	0	0	0
NHPC	0	0	0	0	0

Approved Shutdown availing trend in percentage



Shutdown Delay statistics

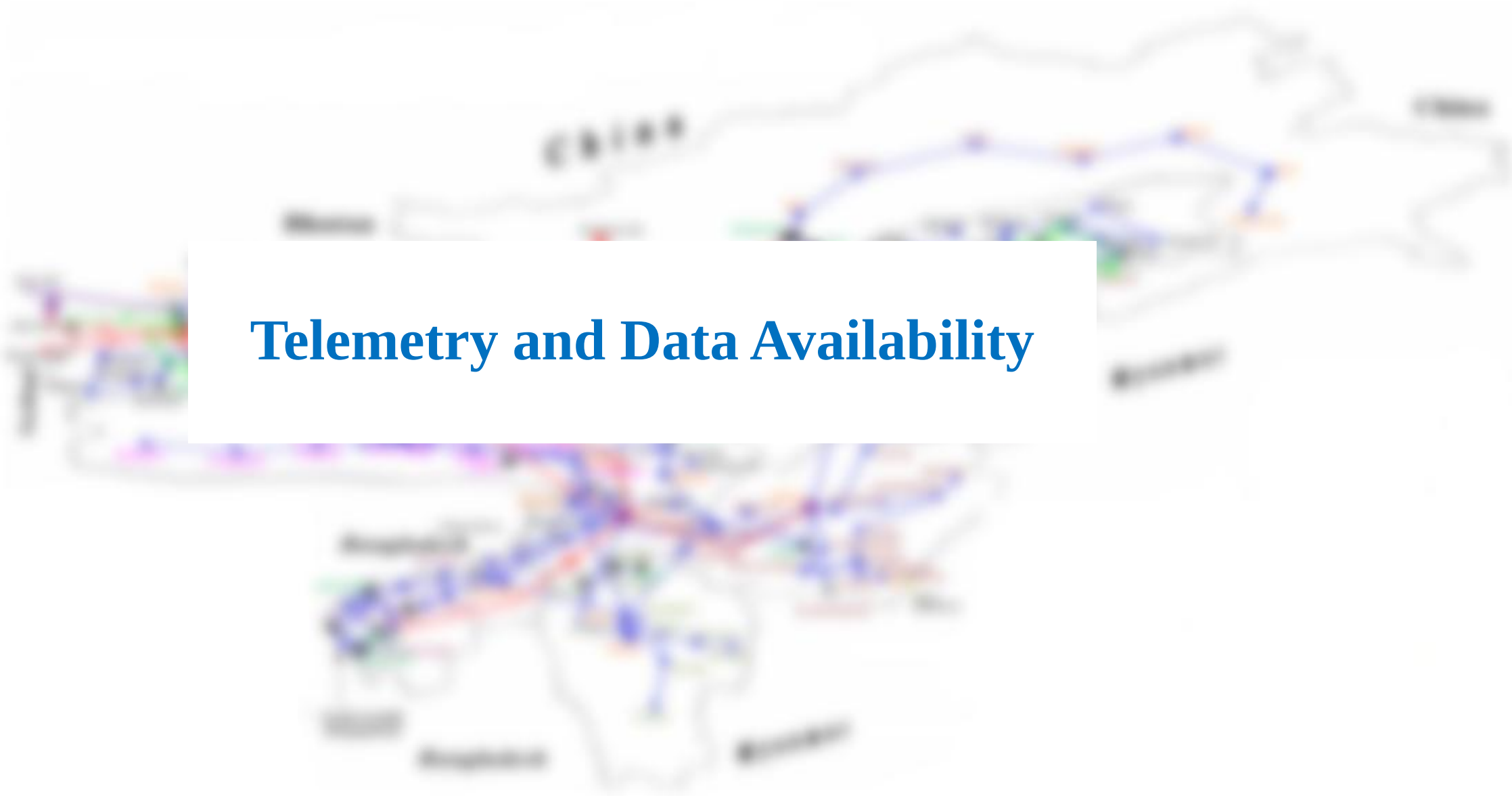
Comparison of delay in returning Shutdown by Entities for the Month of April 2025



	AEGCL	Arunachal Pradesh	MEPTCL	MSPCL	NAGALAND	NEEPCO	NETC	NTPC	OTPCL	POWERGRID	TSECL
Total Delay (Hour)	47.33	4.45	81.41	5.42	12.62	1.63	3.22	73.05	3.17	111.11	28.52
Average Delay	0.88	2.23	4.07	1.36	0.60	1.63	3.22	18.26	0.79	2.22	1.10

Shutdown Delay statistics

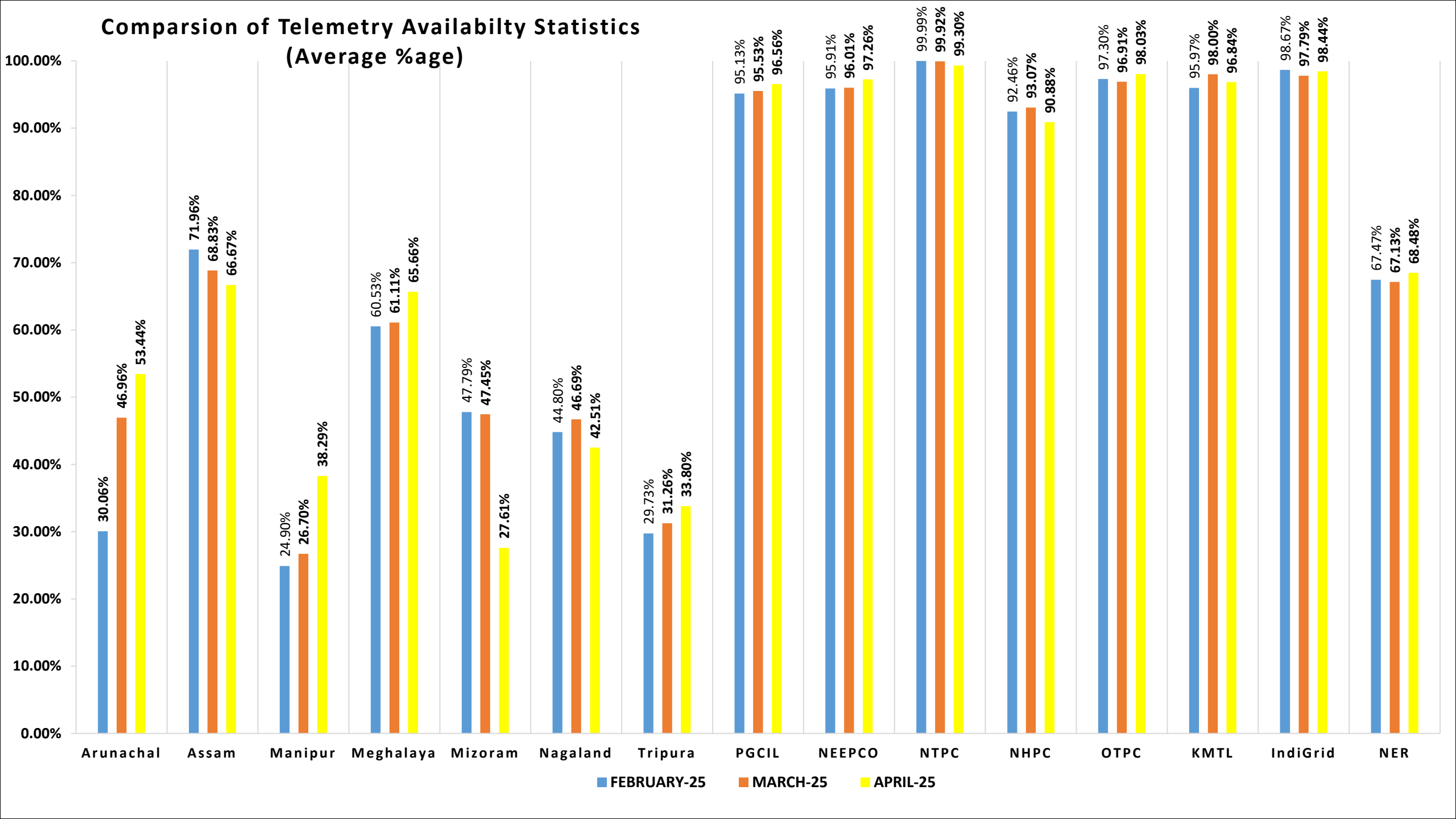
Availing Utility	Total SD	Total Delay (Hour)	Average Delay	Top Contributor to SD Return Delay
AEGCL	54	47.33	0.88	NA
Arunachal Pradesh	2	4.45	2.23	NA
MEPTCL	20	81.41	4.07	Killing 220/132kV ICT-2
MSPCL	4	5.42	1.36	NA
NAGALAND	21	12.62	0.60	NA
NEEPCO	1	1.63	1.63	NA
NETC	1	3.22	3.22	NA
NTPC	4	73.05	18.26	Bgtpp ICT-3
OTPCL	4	3.17	0.79	NA
POWERGRID	50	111.11	2.22	NA
TSECL	26	28.52	1.10	NA



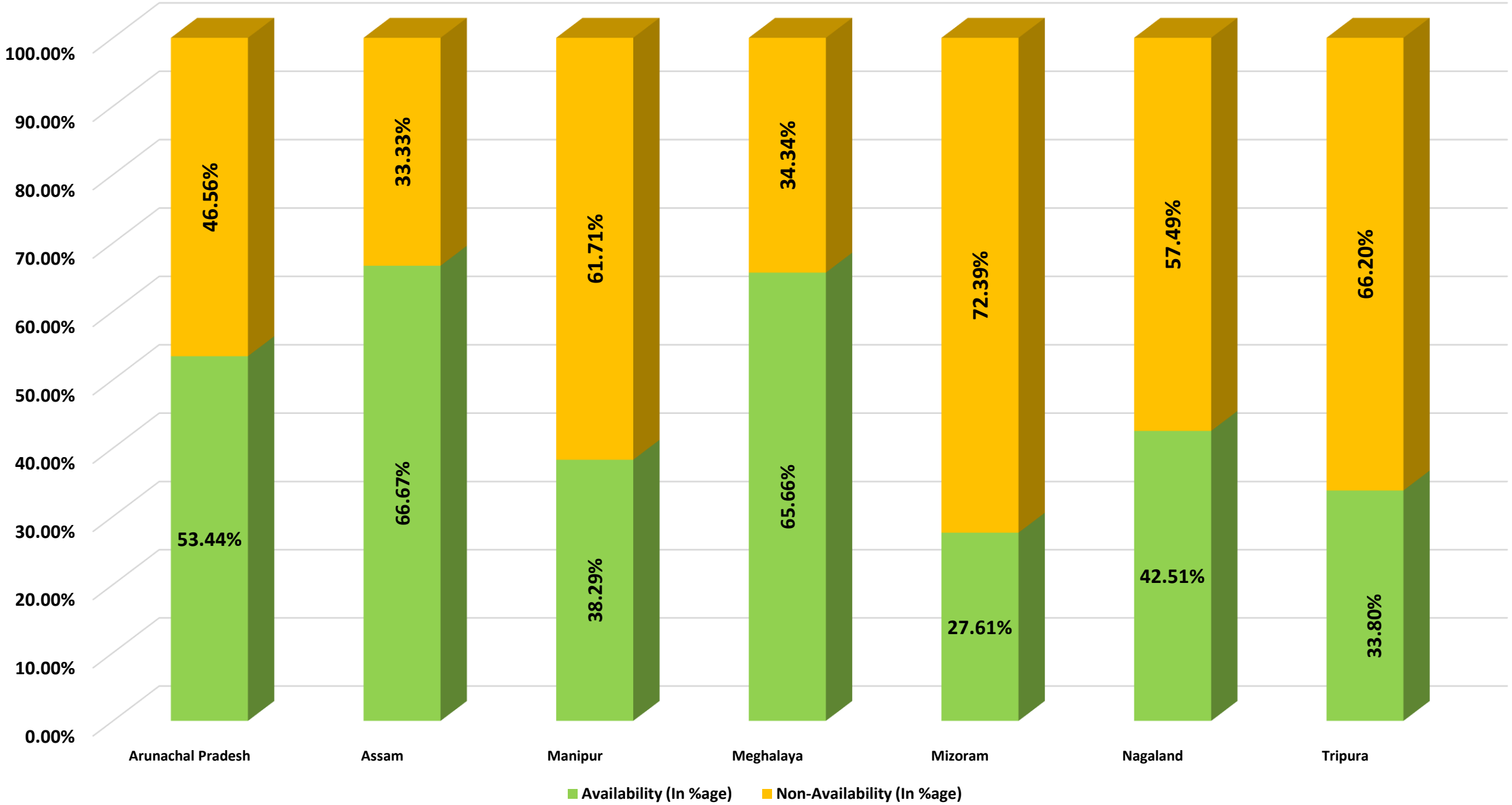
Telemetry and Data Availability

Telemetry Statistics for the month of April 2025

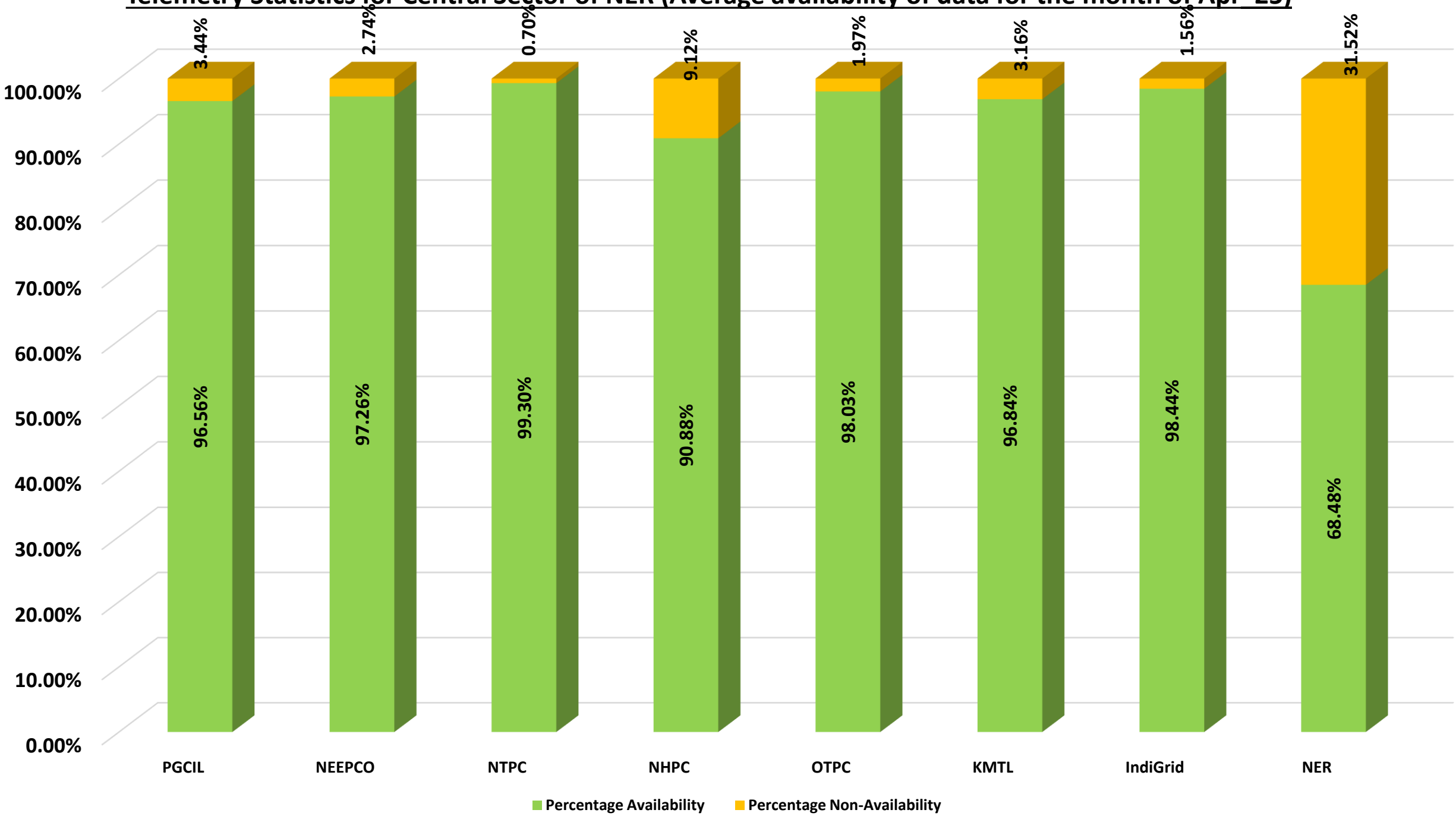
Sl. No.	Utility	Average Total Percentage	Average Analog Percentage	Average Digital Availability	Average RTU Availability	Target as per 30th NeTEST MOM
1	PGCIL	96.56	95.85	96.91	93.97	
2	NEEPCO	97.26	96.45	97.76	98.9	
3	NTPC	99.3	98.21	99.87	98.14	
4	NHPC	90.88	99.06	86.44	99.06	
5	OTPC	98.03	96.57	98.71	99.8	
6	KMTL	96.84	94.05	98.13	99.92	
7	Indi-Grid	98.44	98.45	98.43	100	
8	Arunachal Pradesh	53.44	53.47	53.42	60.76	85
9	Assam	66.67	66.03	67.15	70.35	85
10	Manipur	38.29	41.48	36.39	38.99	70
11	Meghalaya	65.66	82.64	52.87	87.66	80
12	Mizoram	27.61	39.83	18.21	38.5	60
13	Nagaland	42.51	36.21	46.85	37.52	70
14	Tripura	33.8	36.82	31.72	42.63	80
	NER	68.48	68.66	68.37	68.3	


Comparsion of Telemetry Availabilty Statistics
(Average %age)
100.00%
90.00%
80.00%
70.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
30.06%
46.96%
53.44%
71.96%
68.83%
66.67%
24.90%
26.70%
38.29%
60.53%
61.11%
65.66%
47.79%
47.45%
27.61%
44.80%
46.69%
42.51%
29.73%
31.26%
33.80%
95.13%
95.53%
96.56%
95.91%
96.01%
97.26%
99.99%
99.92%
99.30%
92.46%
93.07%
90.88%
97.30%
96.91%
98.03%
95.97%
98.00%
96.84%
98.67%
97.79%
98.44%
67.47%
67.13%
68.48%
Arunachal
Assam
Manipur
Meghalaya
Mizoram
Nagaland
Tripura
PGCIL
NEEPCO
NTPC
NHPC
OTPC
KMTL
IndiGrid
NER
FEBRUARY-25
MARCH-25
APRIL-25

Telemetry Statistics for NER States(Average availability of data for the month of Apr '25)



Telemetry Statistics for Central Sector of NER (Average availability of data for the month of Apr '25)



ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार की उद्यम)
उत्तर पूर्वी क्षेत्रीय भार प्रेषण केन्द्र
North Eastern Regional Load Despatch Centre
Shillong – 793006

Message No	9877	Message Type	ALERT	Date and Time	22-04-2025 22:48
From	NERLDC Control Room				
To	Shift I/C: SLDC TRIPURA/				
Copy to	MS NERPC				

Sub : Violation of Indian Electricity Grid Code

Type of Violation	Category of Violation	Clause	Details
Frequency Violation	ALERT	**IEGC clause:** 30.1**;** 30.2; 30.3; 36 & 45.7 **DSM 2022**: 5.1; 8	FREQUENCY =49.85 Hz, OD/UD BY TRIPURA = 50.04 MW
Deviation Violation		**IEGC:** 30.1; 30.2; 30.3; 36 & 45.7 **DSM 2022:** 5.1;8	
ATC TTC Violation			
Special Events			

Regional Entity	Drawal / Injection Schedule (MW)	Actual Drawal / Injection (MW)	Actual Deviation (MW)	Area Control Error (MW)	Desired Drawl/ Injection (MW)
TRIPURA	198	248	50	51	Draw As per Schedule

You are requested to take immediate action to strictly adhere to desired drawl/generation as mentioned above for reliable and secure system operation. Non-compliance of the RLDC direction would be a threat to grid security and shall be treated as violation of CERC Regulations / CEA Grid Standards / Electricity Act, 2003. The same would be reported to CERC as per Chapter Of IEGC,2023 and amendments thereof.

SK Bhagat
SHIFT CHARGE ENGINEER

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार की उद्यम)
उत्तर पूर्वी क्षेत्रीय भार प्रेषण केन्द्र
North Eastern Regional Load Despatch Centre
Shillong – 793006

Message No	9878	Message Type	ALERT	Date and Time	22-04-2025 23:04
From	NERLDC Control Room				
To	Shift I/C: SLDC TRIPURA/				
Copy to	MS NERPC				

Sub : Violation of Indian Electricity Grid Code

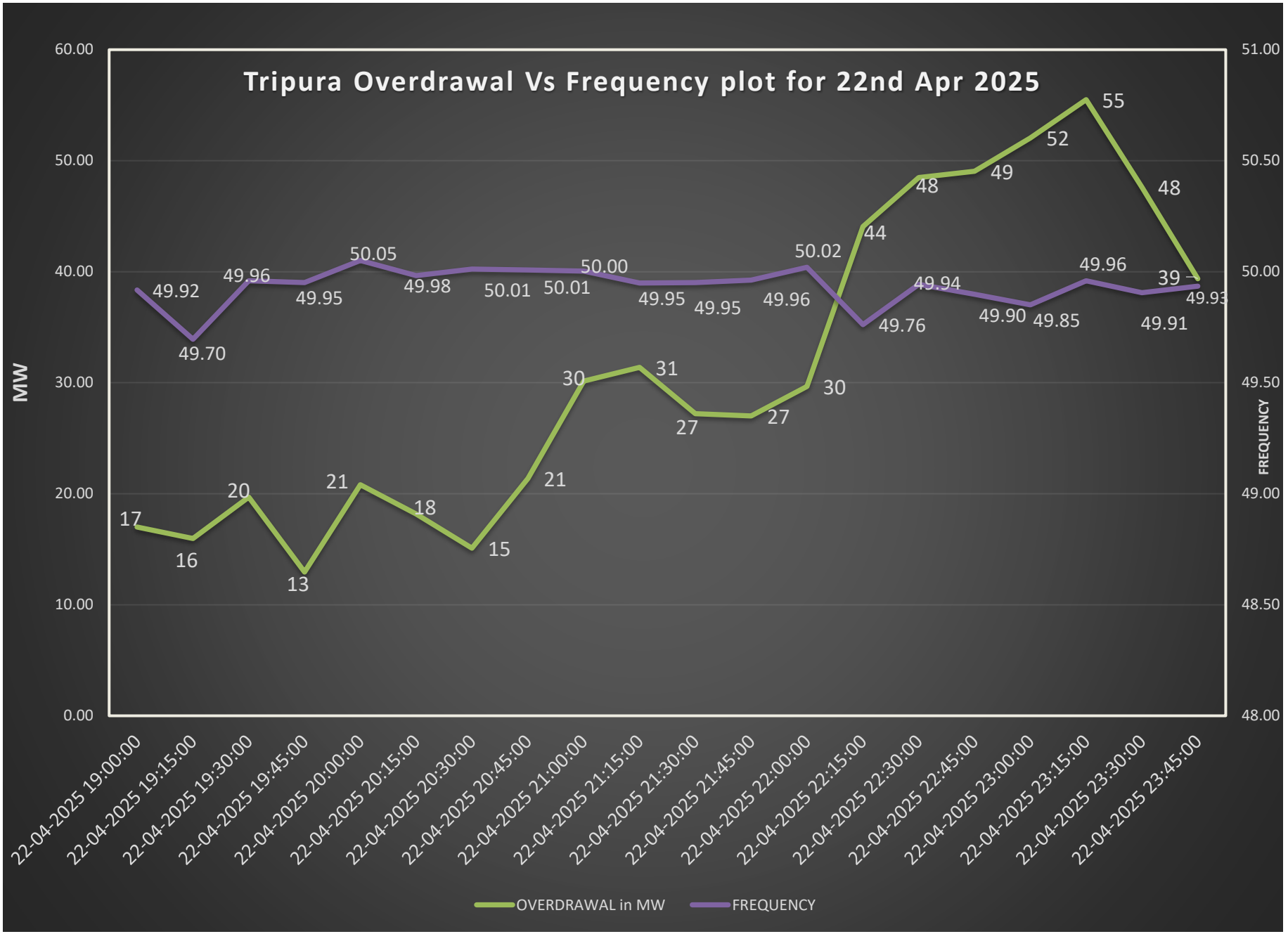
Type of Violation	Category of Violation	Clause	Details
Frequency Violation	ALERT	**IEGC clause:** 30.1**;** 30.2; 30.3; 36 & 45.7 **DSM 2022**: 5.1; 8	FREQUENCY =49.89 Hz, OD/UD BY TRIPURA = 56.39 MW
Deviation Violation		**IEGC:** 30.1; 30.2; 30.3; 36 & 45.7 **DSM 2022:** 5.1;8	
ATC TTC Violation			
Special Events			

Regional Entity	Drawal / Injection Schedule (MW)	Actual Drawal / Injection (MW)	Actual Deviation (MW)	Area Control Error (MW)	Desired Drawl/ Injection (MW)
TRIPURA	198	254	56	57	Draw As per Schedule

You are requested to take immediate action to strictly adhere to desired drawl/generation as mentioned above for reliable and secure system operation. Non-compliance of the RLDC direction would be a threat to grid security and shall be treated as violation of CERC Regulations / CEA Grid Standards / Electricity Act, 2003. The same would be reported to CERC as per Chapter Of IEGC,2023 and amendments thereof.

SK Bhagat
SHIFT CHARGE ENGINEER

Annexure 2.10.2



Resource Adequacy Monthly Report for June 2025

Inputs for the study

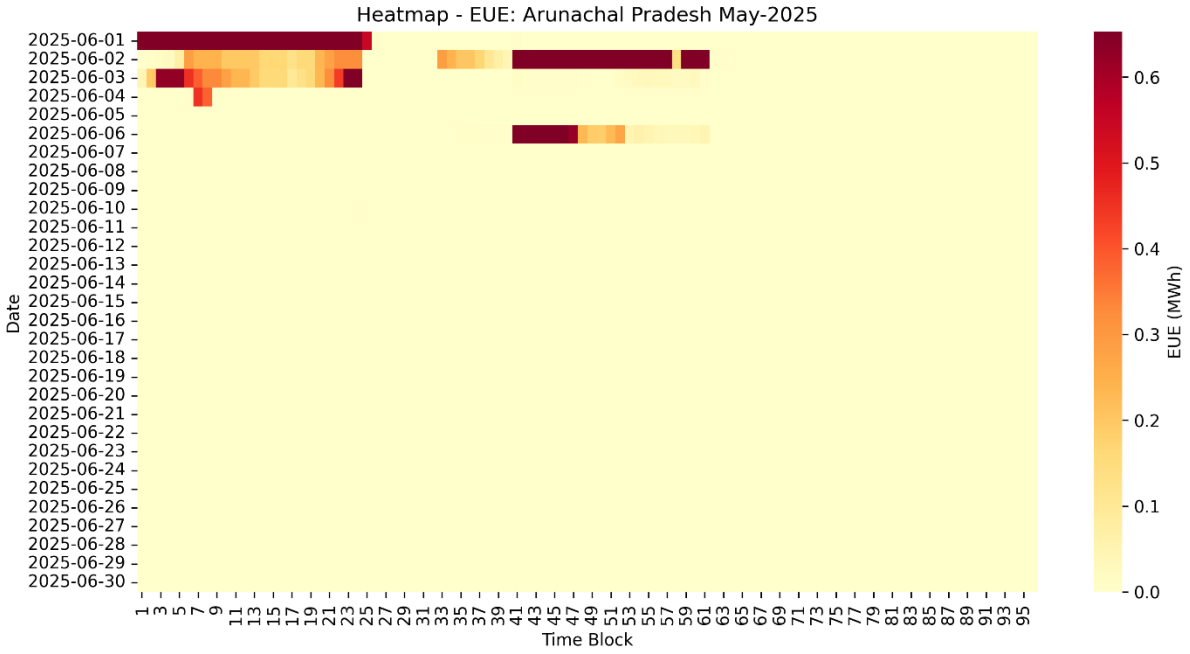
- Forecasted demand, RE, Hydro and contracts provided by state.
- Generator planned outage considered
- Dam and RTM purchases not considered
- Forced outage rate calculated from historical unit outage data

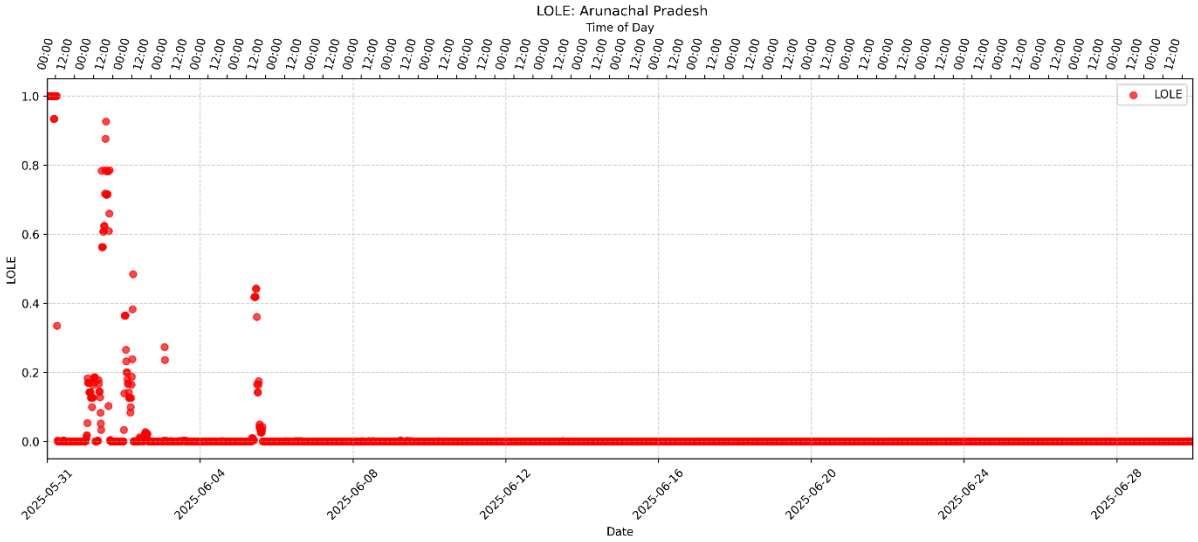
1. Summary of the simulation results:

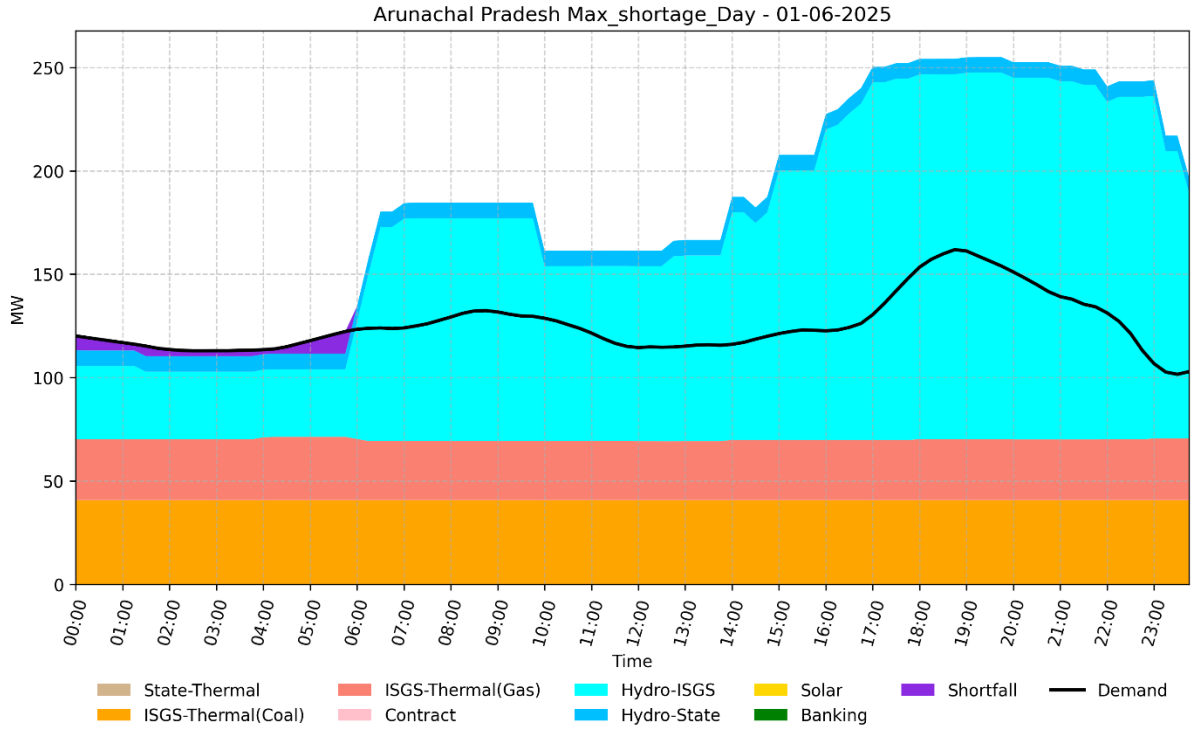
Resource Adequacy Results					
State	**Maximum Shortage MW**	**Maximum Shortage MW Day**	**Maximum MU shortage**	**Maximum MU shortage Day**	**Average LOLE**
Arunachal Pradesh	**10**	**01-06-2025**	**0.07**	**01-06-2025**	**0.01**
Assam	**230**	**10-06-2025**	**0.6**	**11-06-2025**	**0.17**
Manipur	**36**	**06-06-2025**	**0.50**	**07-06-2025**	**0.37**
Mizoram	**11**	**26-06-2025**	**0.08**	**26-06-2025**	**0.12**
Nagaland	**44**	**10-06-2025**	**0.4**	**10-06-2025**	**0.36**
Tripura	**84**	**01-06-2025**	**1.9**	**02-06-2025**	**0.69**

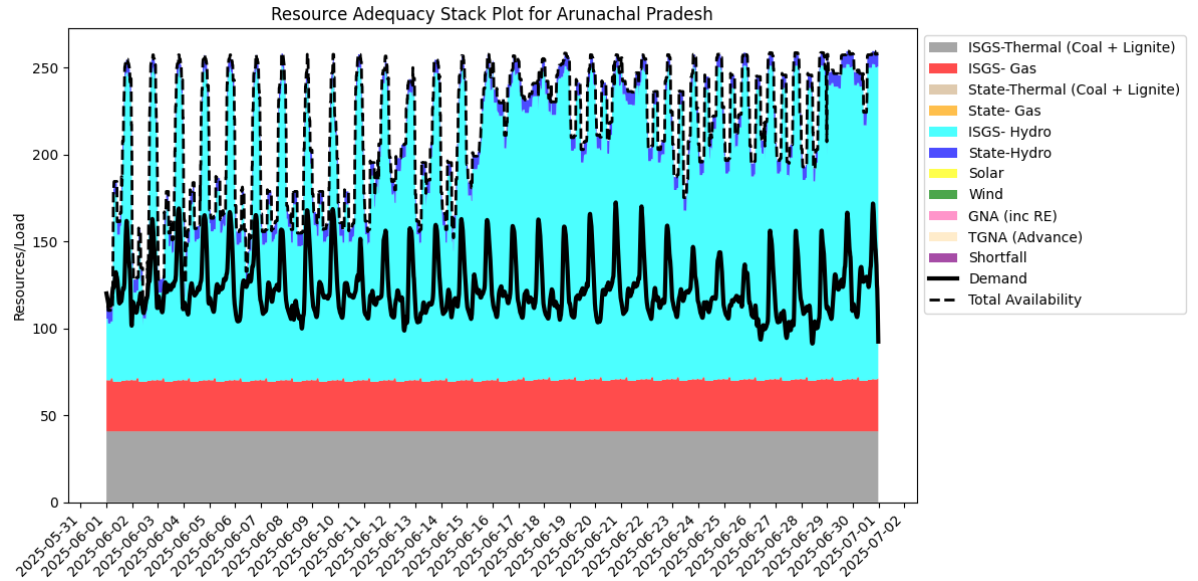
2. Simulation Results

2.1 Arunachal Pradesh

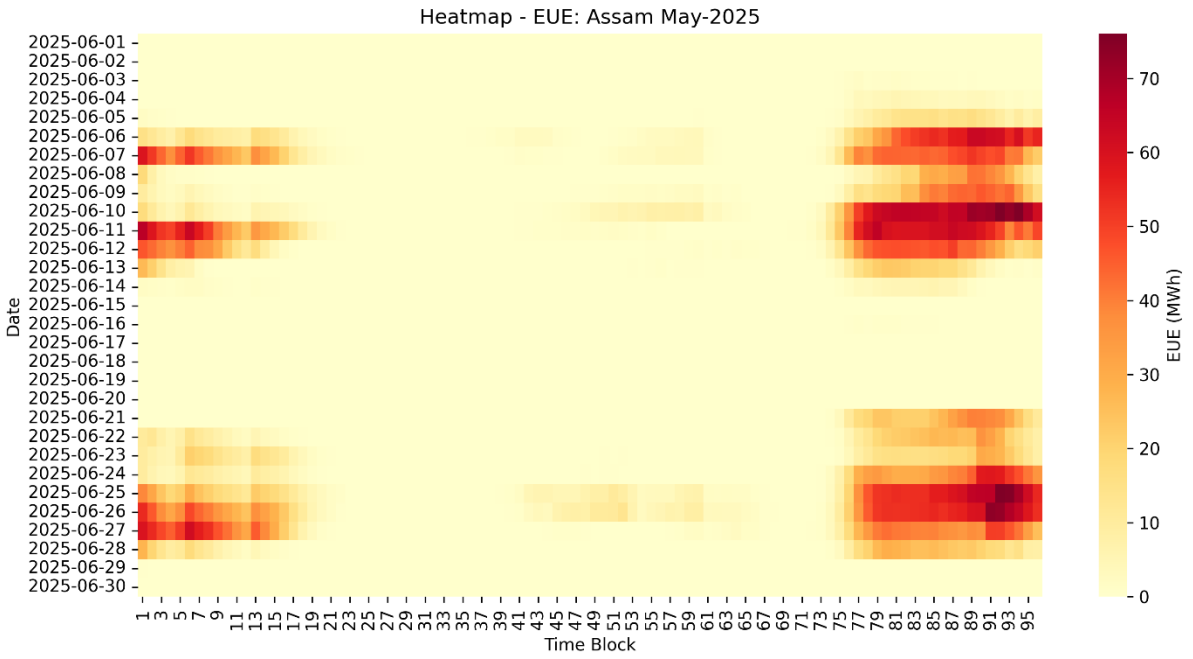


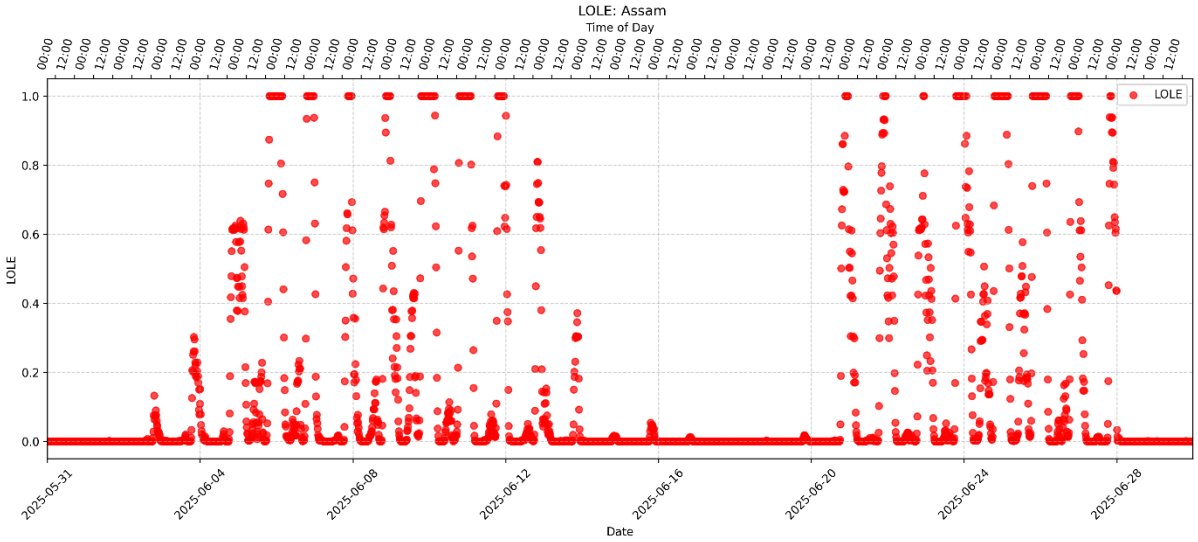

LOLE: Arunachal Pradesh
Time of Day
LOLE
Date

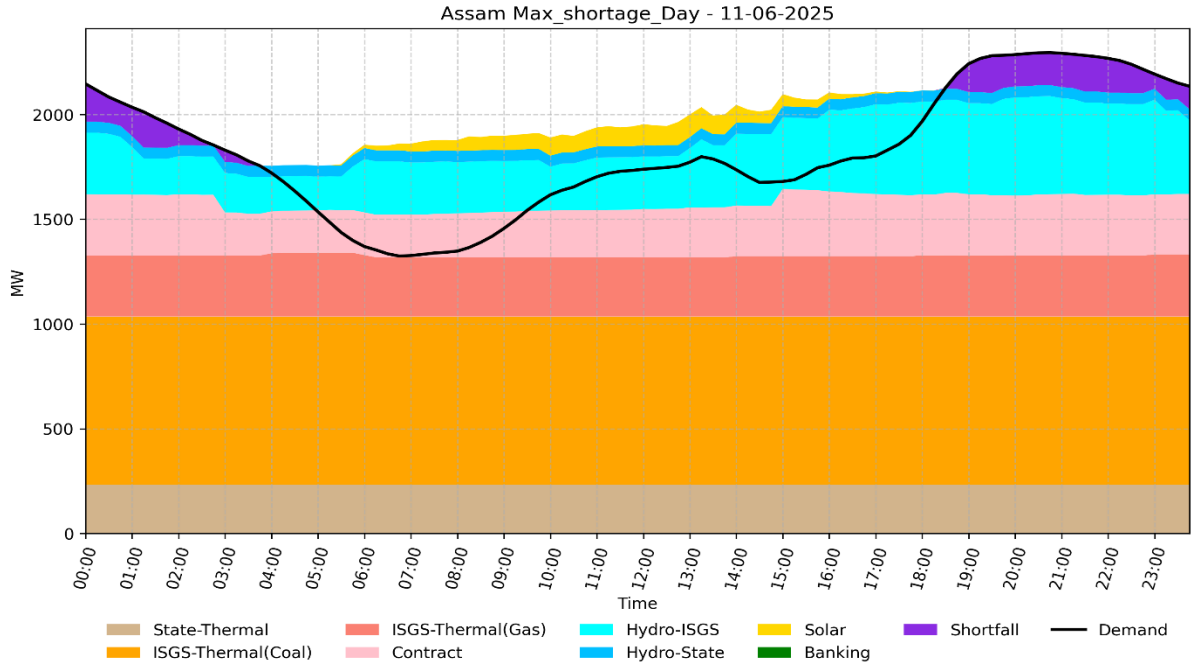

Arunachal Pradesh Max_shortage_Day - 01-06-2025
MW
Time
State-Thermal
ISGS-Thermal(Coal)
ISGS-Thermal(Gas)
Contract
Hydro-ISGS
Hydro-State
Solar
Banking
Shortfall
Demand

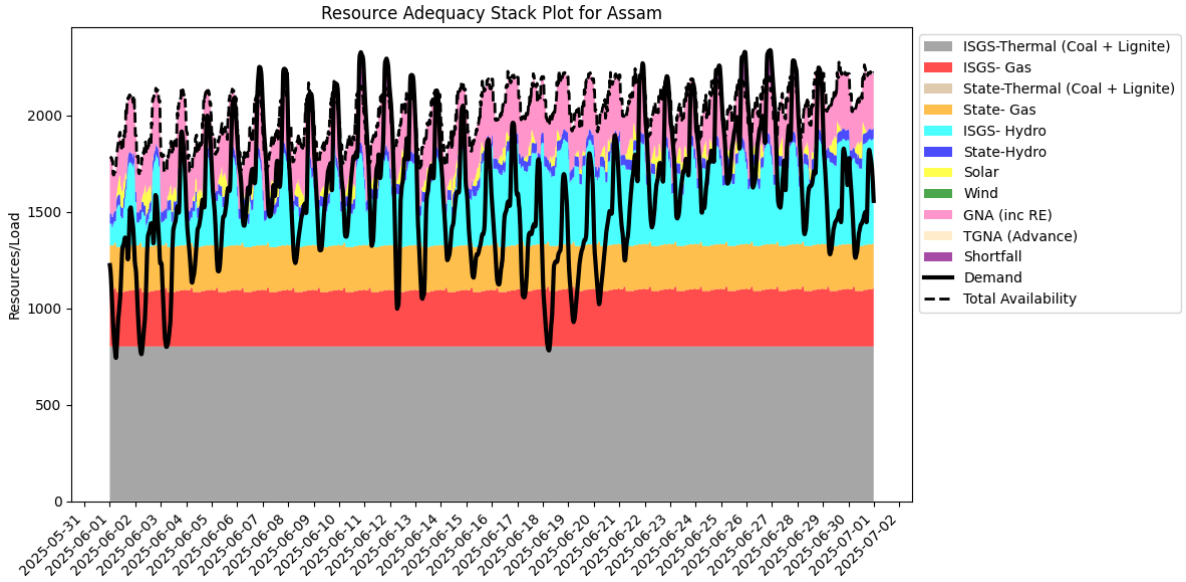

Resource Adequacy Stack Plot for Arunachal Pradesh
Resources/Load
ISGS-Thermal (Coal + Lignite)
ISGS- Gas
State-Thermal (Coal + Lignite)
State- Gas
ISGS- Hydro
State-Hydro
Solar
Wind
GNA (inc RE)
TGNA (Advance)
Shortfall
Demand
Total Availability

2.2 Assam

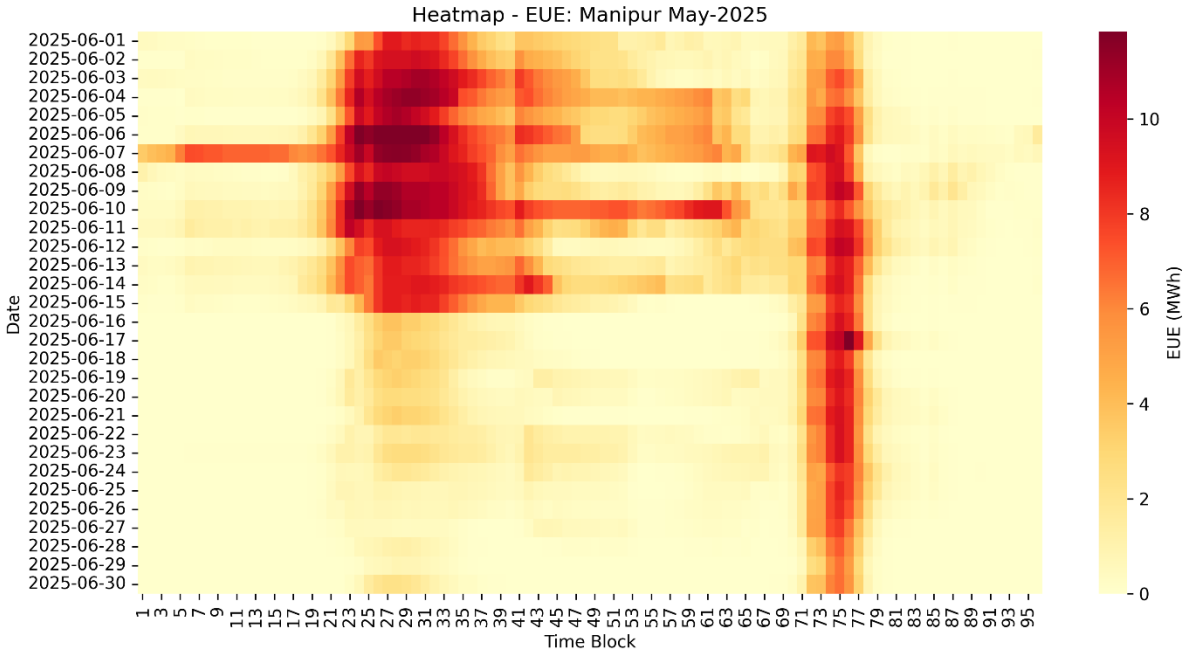

Heatmap - EUE: Assam May-2025
Date
Time Block
EUE (MWh)

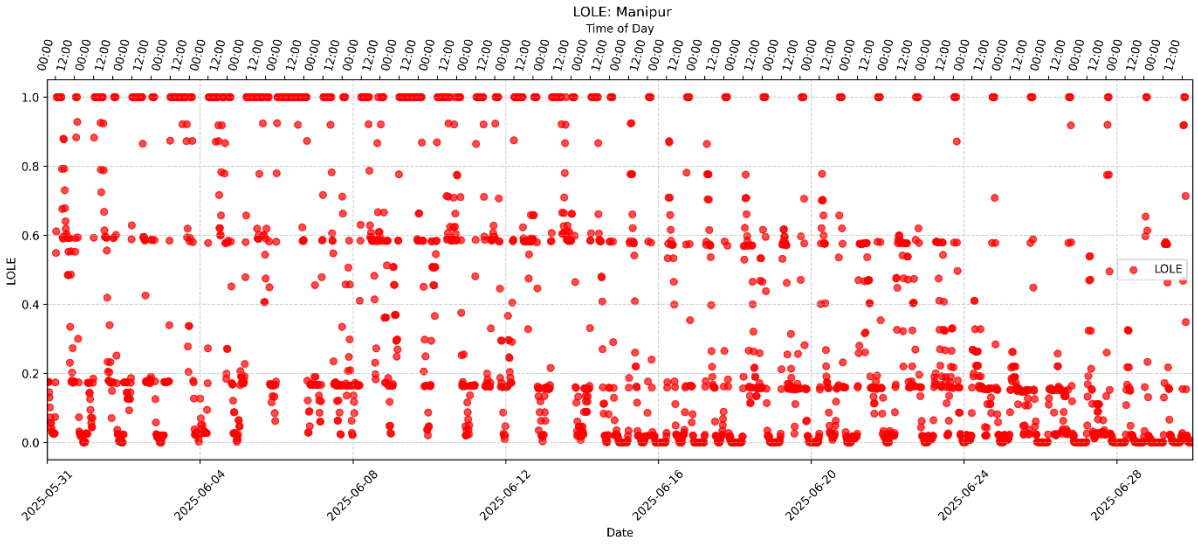

LOLE: Assam
Time of Day
LOLE
Date

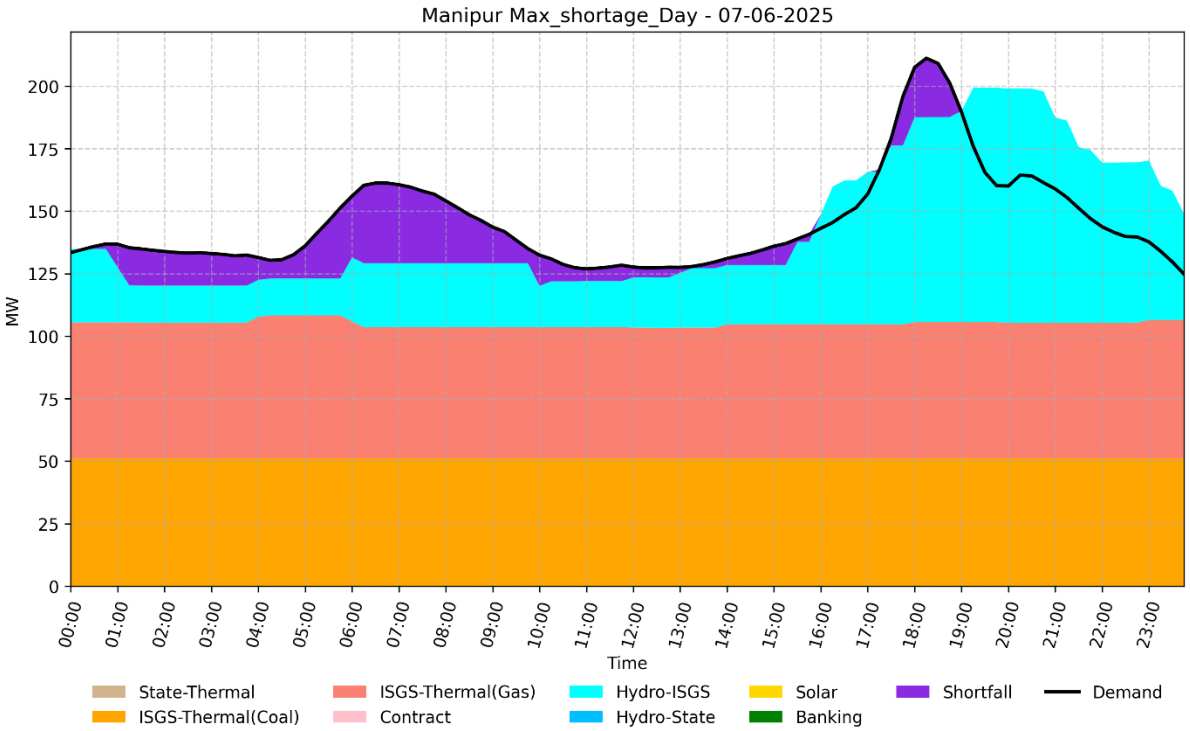

Assam Max_shortage_Day - 11-06-2025
MW
Time
State-Thermal
ISGS-Thermal(Coal)
ISGS-Thermal(Gas)
Contract
Hydro-ISGS
Hydro-State
Solar
Banking
Shortfall
Demand

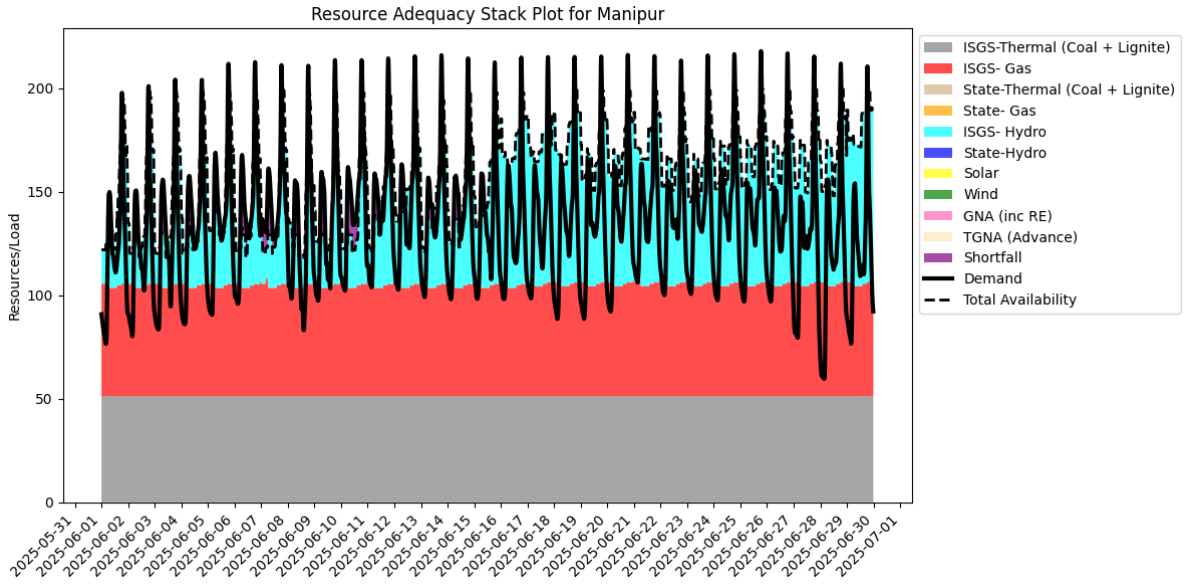

Resource Adequacy Stack Plot for Assam
Resources/Load
ISGS-Thermal (Coal + Lignite)
ISGS- Gas
State-Thermal (Coal + Lignite)
State- Gas
ISGS- Hydro
State-Hydro
Solar
Wind
GNA (inc RE)
TGNA (Advance)
Shortfall
Demand
Total Availability

2.3 Manipur

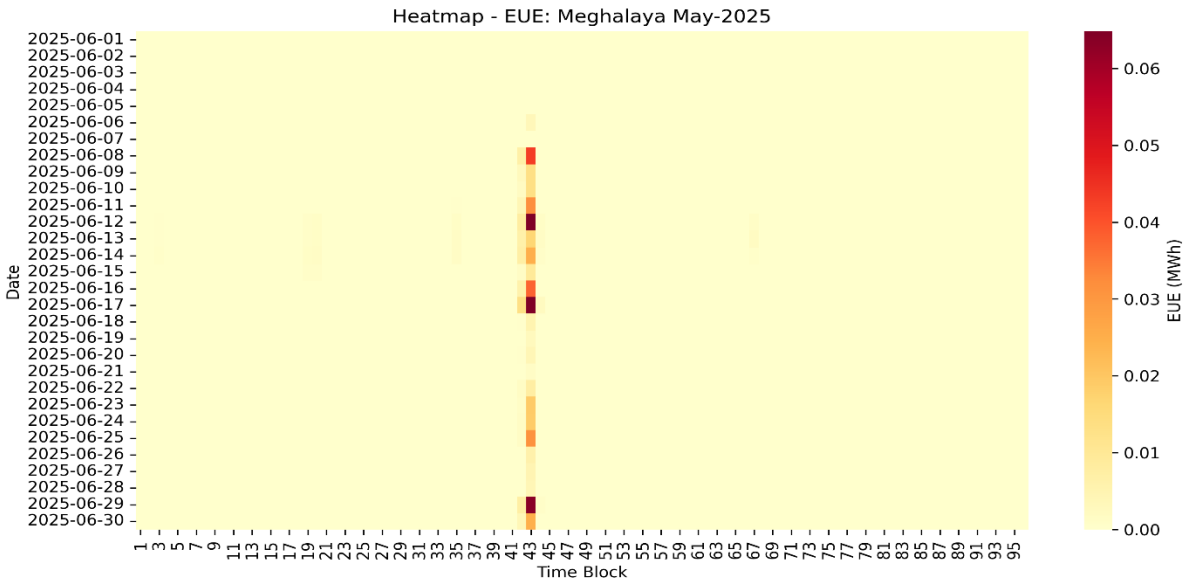

Heatmap - EUE: Manipur May-2025
Date
Time Block
EUE (MWh)

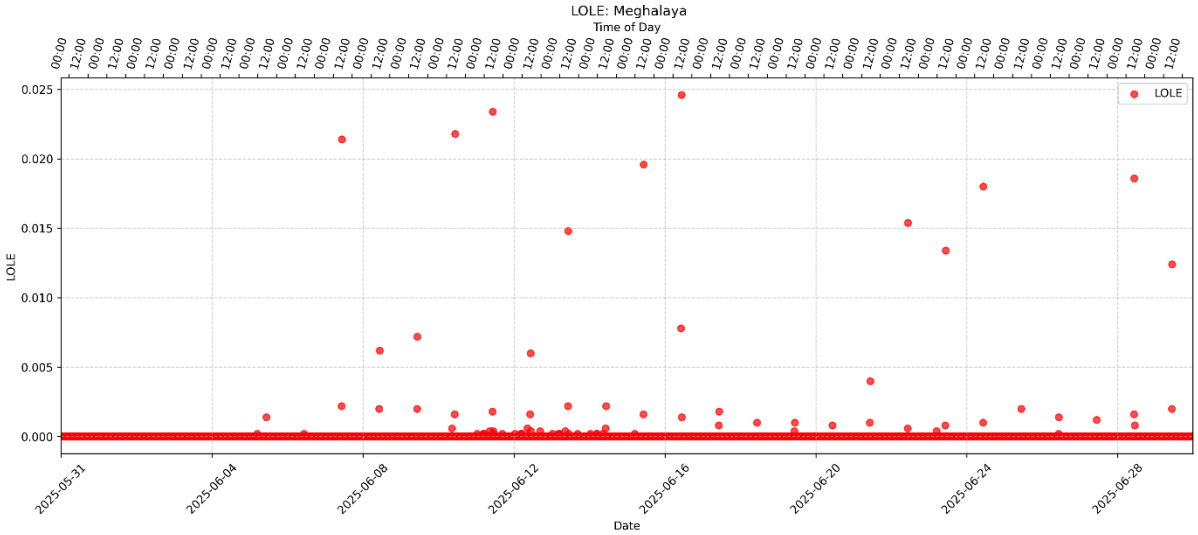

LOLE: Manipur
Time of Day
LOLE
Date

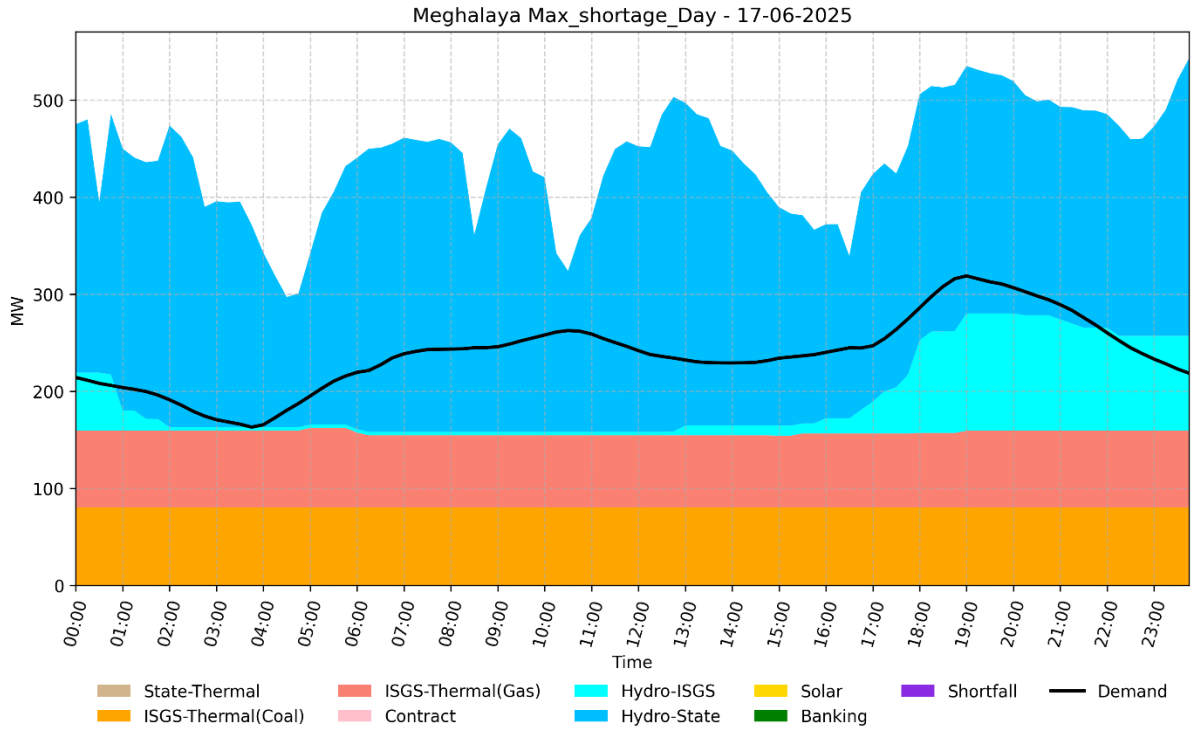


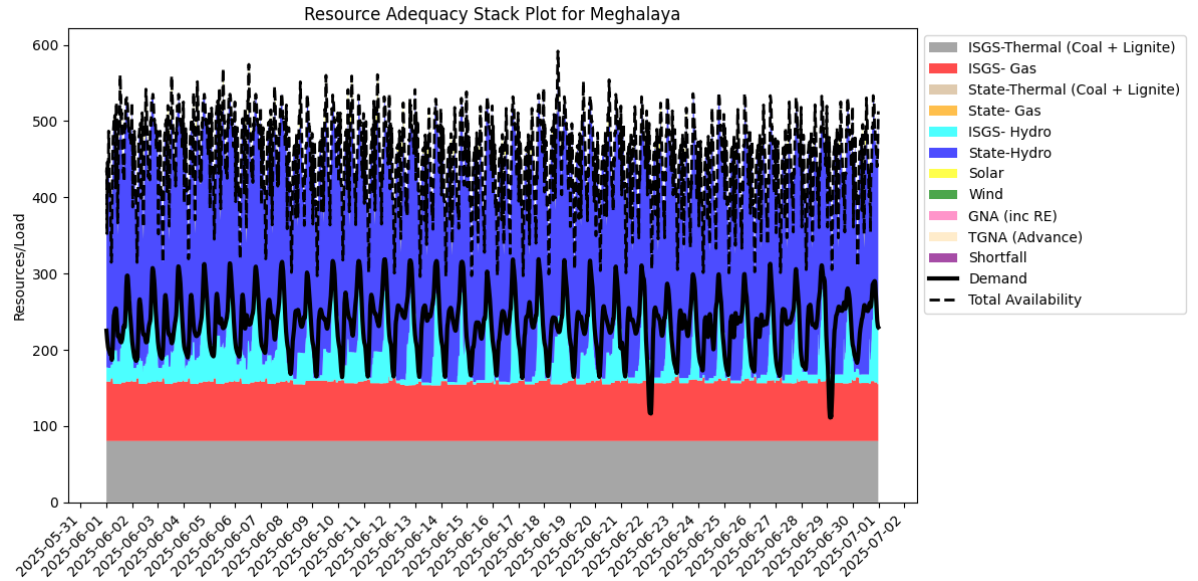


2.4 Meghalaya

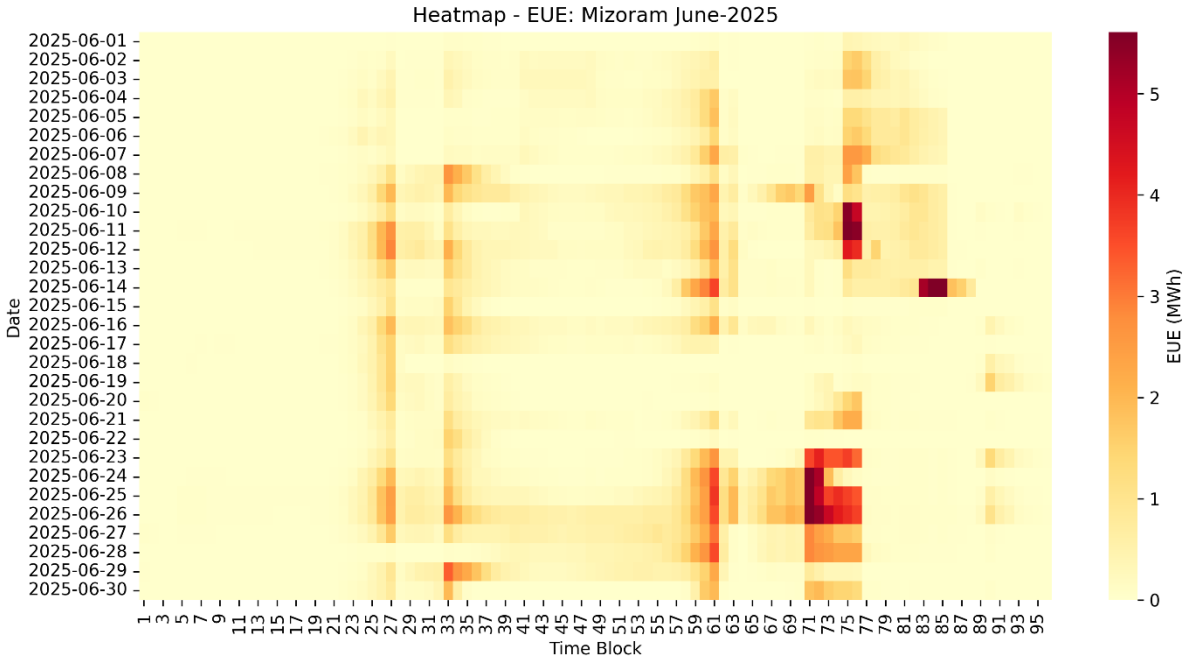


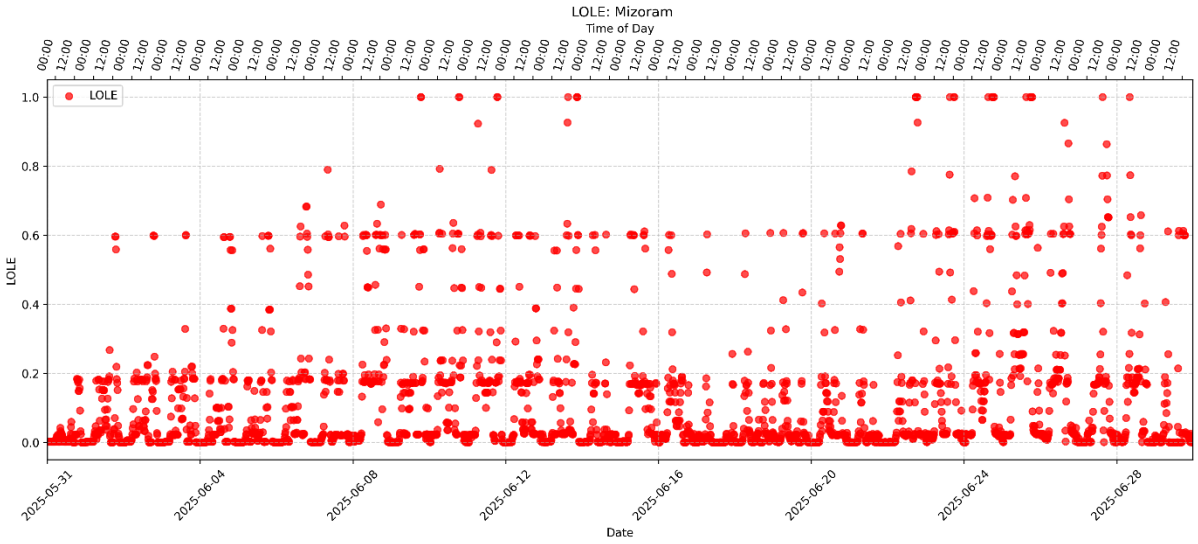

LOLE: Meghalaya
Time of Day
LOLE
Date

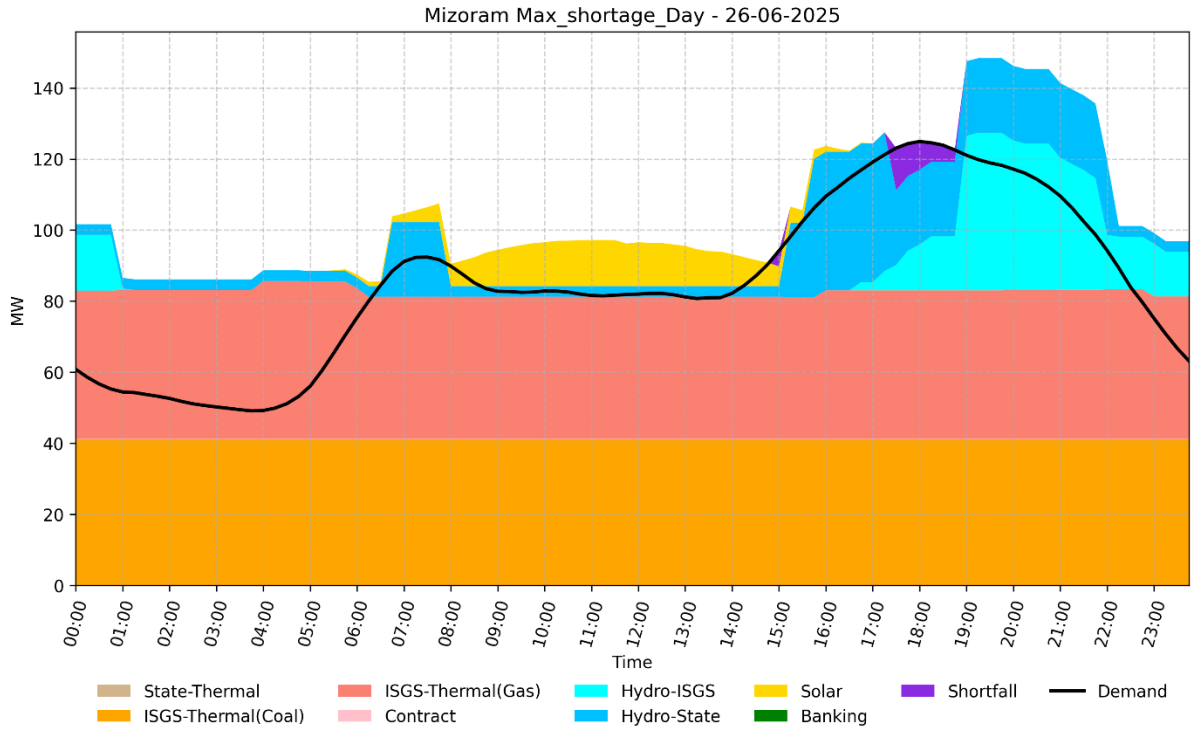

Meghalaya Max_shortage_Day - 17-06-2025
MW
Time
State-Thermal
ISGS-Thermal(Coal)
ISGS-Thermal(Gas)
Contract
Hydro-ISGS
Hydro-State
Solar
Banking
Shortfall
Demand

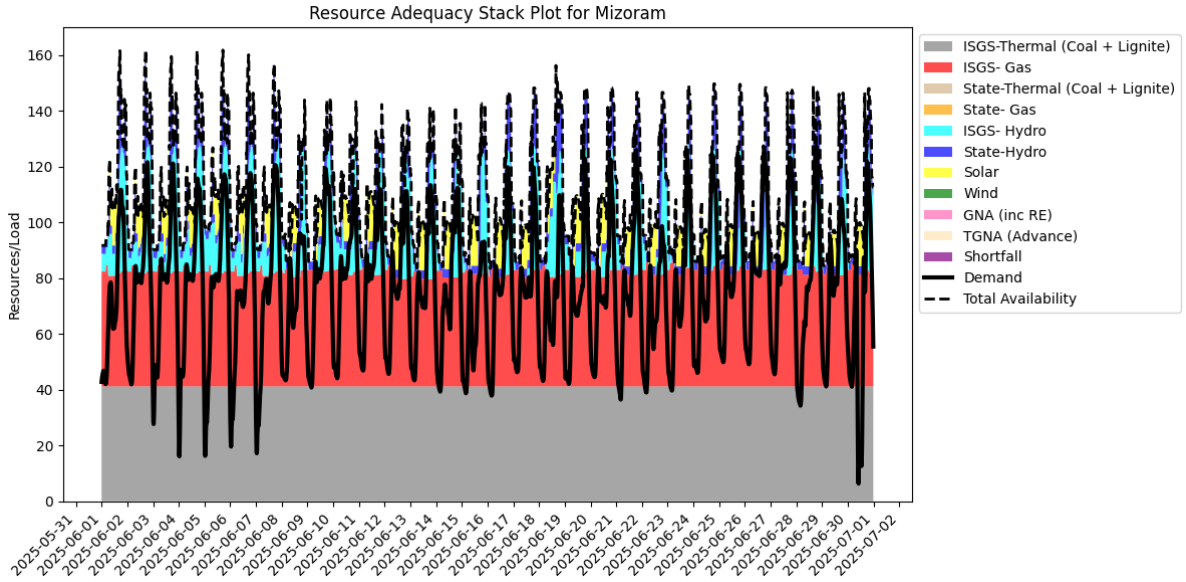

Resource Adequacy Stack Plot for Meghalaya
Resources/Load
ISGS-Thermal (Coal + Lignite)
ISGS- Gas
State-Thermal (Coal + Lignite)
State- Gas
ISGS- Hydro
State-Hydro
Solar
Wind
GNA (inc RE)
TGNA (Advance)
Shortfall
Demand
Total Availability

2.5 Mizoram

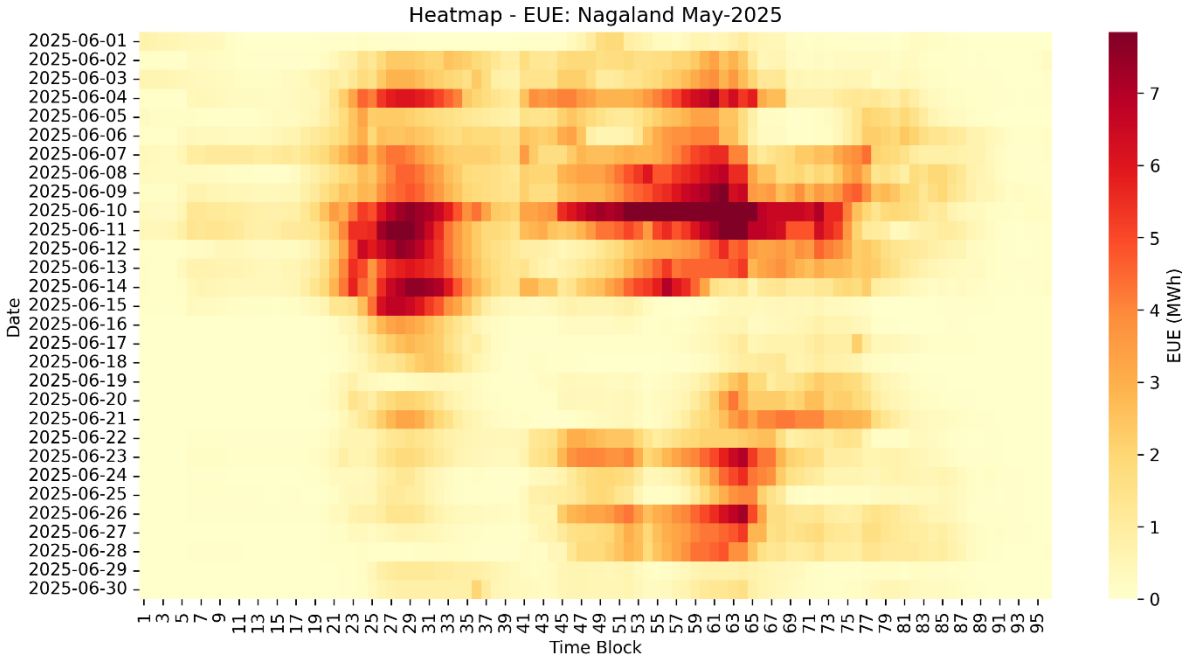

Heatmap - EUE: Mizoram June-2025
Date
Time Block
EUE (MWh)

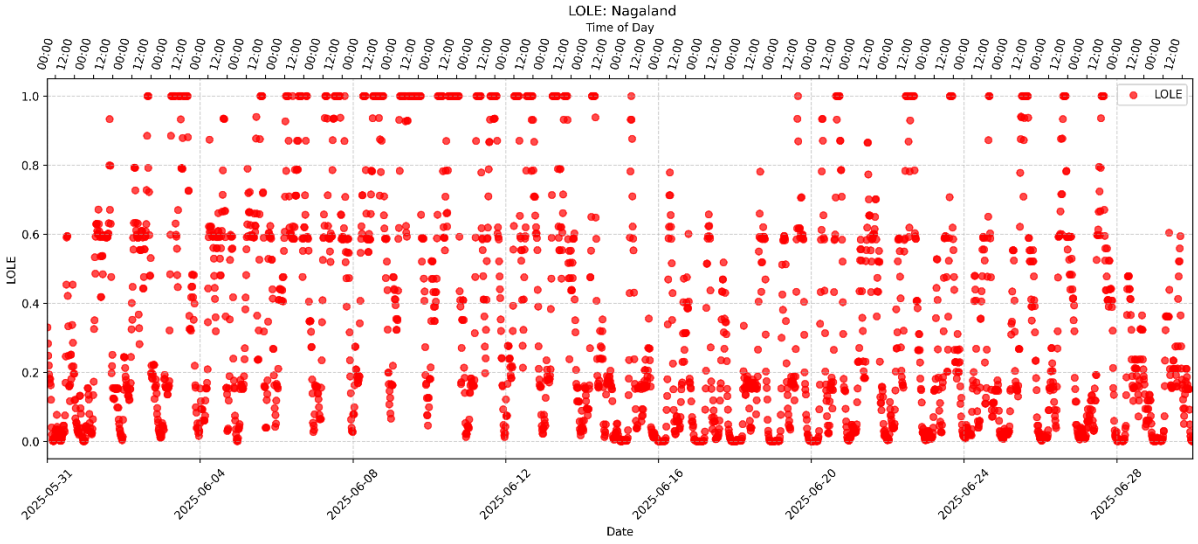

LOLE: Mizoram
Time of Day
LOLE
Date

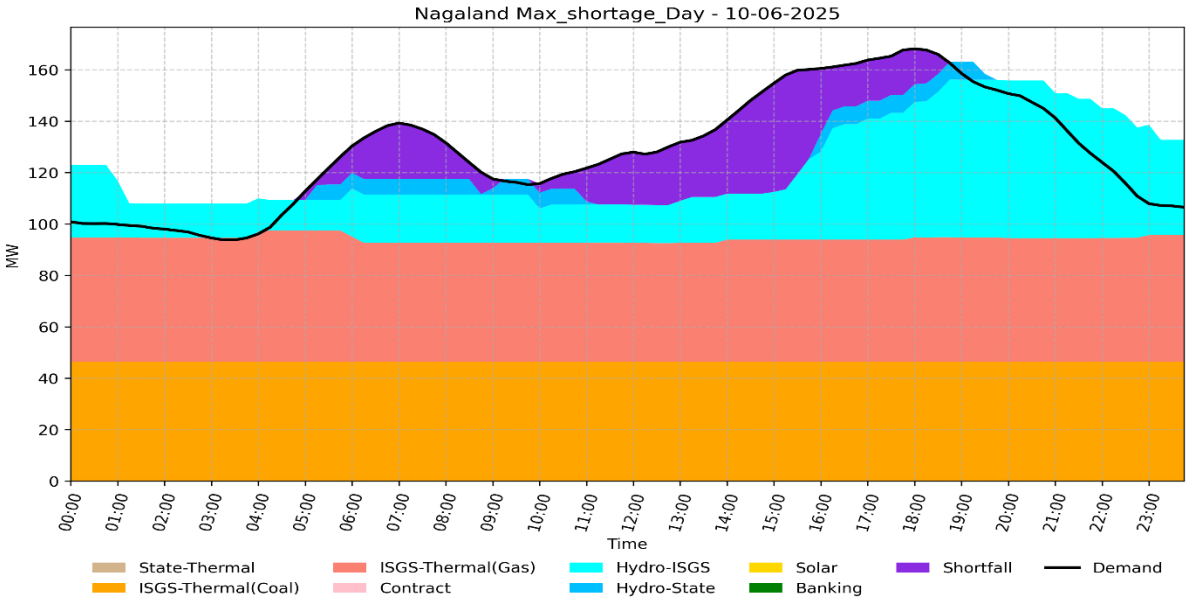

Mizoram Max_shortage_Day - 26-06-2025
MW
Time
State-Thermal
ISGS-Thermal(Coal)
ISGS-Thermal(Gas)
Contract
Hydro-ISGS
Hydro-State
Solar
Banking
Shortfall
Demand

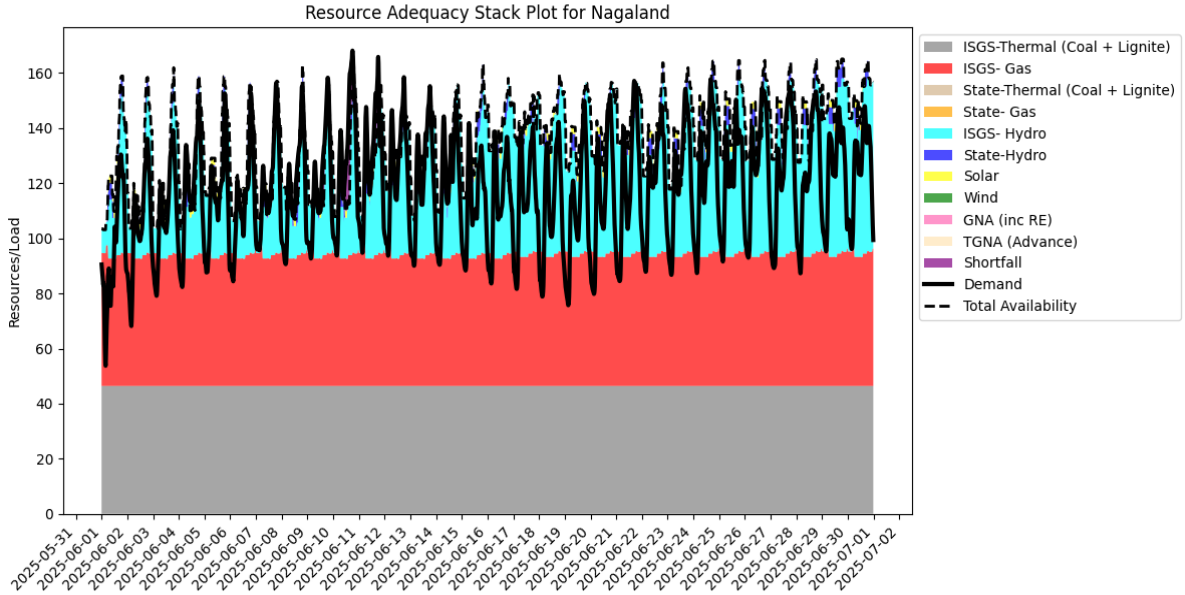

Resource Adequacy Stack Plot for Mizoram
Resources/Load
ISGS-Thermal (Coal + Lignite)
ISGS- Gas
State-Thermal (Coal + Lignite)
State- Gas
ISGS- Hydro
State-Hydro
Solar
Wind
GNA (inc RE)
TGNA (Advance)
Shortfall
Demand
Total Availability

2.6 Nagaland

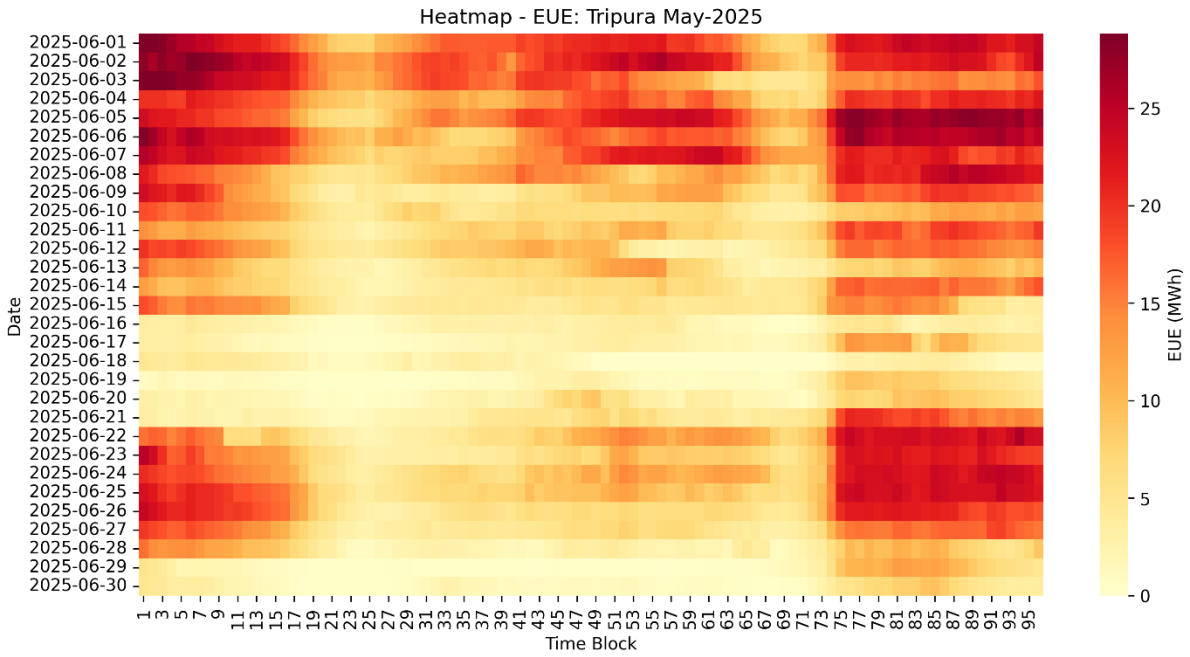

Heatmap - EUE: Nagaland May-2025
Date
Time Block
EUE (MWh)

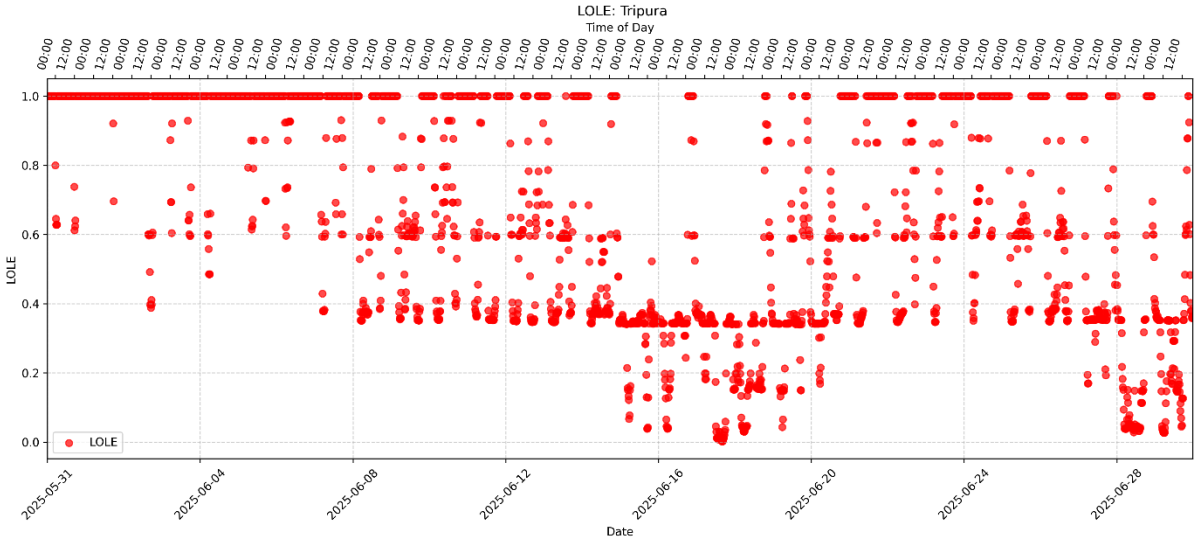

LOLE: Nagaland
Time of Day
LOLE
Date

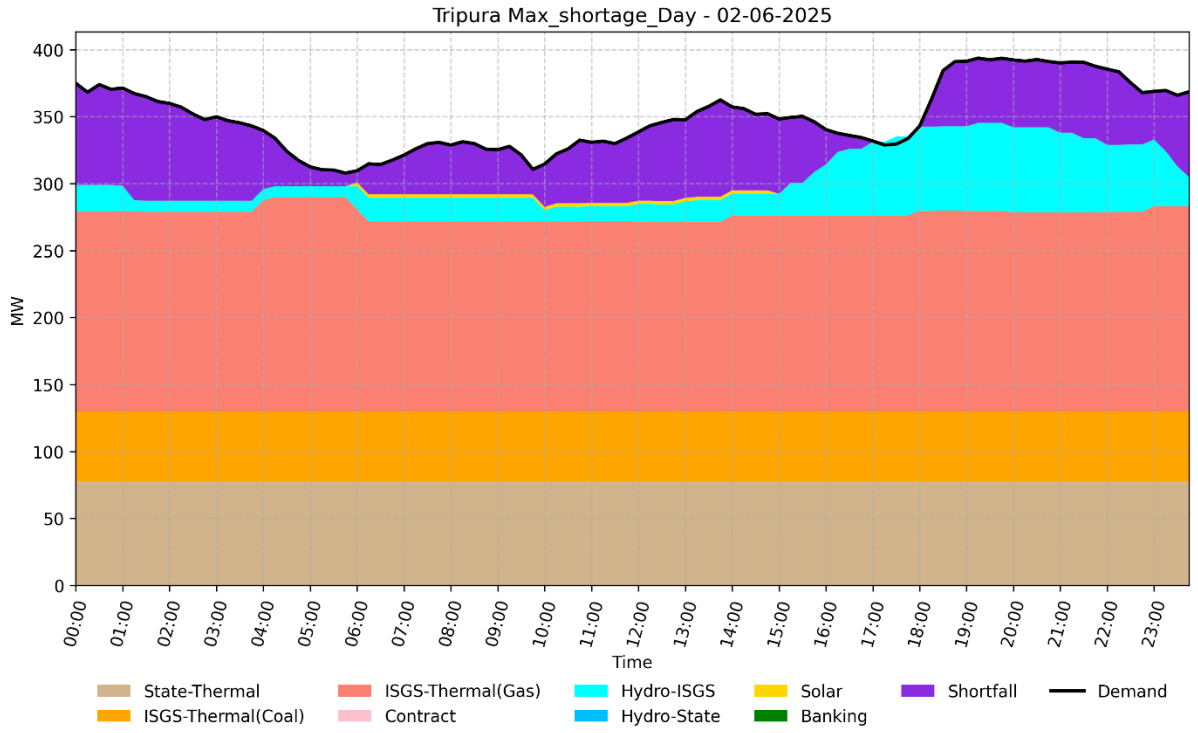

Nagaland Max_shortage_Day - 10-06-2025
MW
Time
State-Thermal
ISGS-Thermal(Coal)
ISGS-Thermal(Gas)
Contract
Hydro-ISGS
Hydro-State
Solar
Banking
Shortfall
Demand

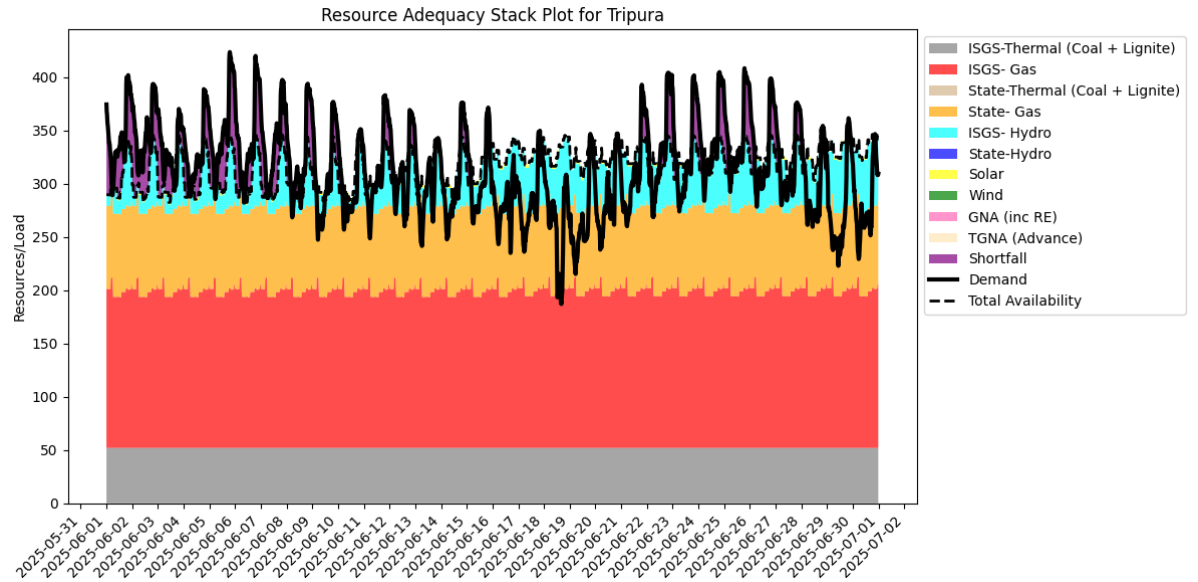

Resource Adequacy Stack Plot for Nagaland
Resources/Load
ISGS-Thermal (Coal + Lignite)
ISGS- Gas
State-Thermal (Coal + Lignite)
State- Gas
ISGS- Hydro
State-Hydro
Solar
Wind
GNA (inc RE)
TGNA (Advance)
Shortfall
Demand
Total Availability

2.7 Tripura


Heatmap - EUE: Tripura May-2025
Date
Time Block
EUE (MWh)


LOLE: Tripura
Time of Day
LOLE
Date
LOLE


Tripura Max_shortage_Day - 02-06-2025
MW
Time
State-Thermal
ISGS-Thermal(Coal)
ISGS-Thermal(Gas)
Contract
Hydro-ISGS
Hydro-State
Solar
Banking
Shortfall
Demand


Resource Adequacy Stack Plot for Tripura
Resources/Load
ISGS-Thermal (Coal + Lignite)
ISGS- Gas
State-Thermal (Coal + Lignite)
State- Gas
ISGS- Hydro
State-Hydro
Solar
Wind
GNA (inc RE)
TGNA (Advance)
Shortfall
Demand
Total Availability

ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)
GRID CONTROLLER OF INDIA LIMITED
(A Government of India Enterprise)
[formerly Power System Operation Corporation Limited (POSOCO)]
राष्ट्रीय भार प्रेषण केन्द्र / National Load Despatch Centre

आज़ादी का अमृत महोत्सव

कार्यालय : बी-9, प्रथम एवं द्वितीय तल, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016
Office : 1st and 2nd Floor, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi -110016
CIN : U40105DL2009GOI188682, Website : www.grid-india.in, E-mail : gridindiacc@grid-india.in, Tel.: 011- 42785855

Ref: NLDC/SO-I/ 298

Date: 21st Mar 25

To,
Executive Director
NRLDC/WRLDC/SRLDC/ERLDC/NERLDC

Subject: Expeditious Registration of Intra-State Generating Stations in NOAR

Dear Sir,

As you may be aware, a High-Level Committee (HLC) has been constituted under the Chairmanship of the Additional Secretary (Power) to monitor the offering of power by generators and load shedding by distribution licensees. The registration status of GENCOs in the National Open Access Registry (NOAR) has been a recurring point of discussion.

Despite earlier communications to the respective states, advising GENCOs to register in NOAR, no significant progress has been observed. In the last HLC meeting held on 3rd March 2025, Grid-India was directed to request all Managing Directors (MDs) of GENCOs to expedite the registration process on the NOAR portal. Additionally, GENCOs were asked to provide detailed reasons for the delay in registration despite continuous follow-ups.

It is pertinent to mention that registration is also essential for compliance with the Late Payment Surcharge (LPSC) Rules. In this regard, it is requested to kindly ask from each GENCO the following:

- Completion of registration of all generating stations on the NOAR portal at the earliest.
- Reasons for non-registration of the plants until now and a timeline and relevant details (expected date of registration, issues faced, etc.)

As per the minutes of the meeting (annexure-I), Grid-India is asked to present the above details in the next HLC meeting, which is expected to be scheduled soon. Therefore, consolidated inputs from all GENCOs in your region may please be forwarded to NLDC at the earliest, and latest by 28.03.2025 to facilitate compilation for the meeting.

A plant-wise list of stations, not yet registered on the NOAR portal, is attached as an annexure-II for reference.

Your cooperation in ensuring the timely submission of the required details will be highly appreciated.

Regards

S. Usha
Executive Director, NLDC

Encl.: As above

For kind information:

1. Chairman and Managing Director, Grid India
2. Director (SO/MO), Grid India

ANNEXURE-I

No.20/1/2024-DS(271942)
Government of India
Ministry of Power
******

Shram Shakti Bhawan, Rafi Marg
New Delhi, Date:7th March, 2025

MINUTES OF MEETING

Subject: Minutes of the 6th Meeting of the Committee to monitor offering of power by Generators and load shedding by Distribution Licensees.

The undersigned is directed to forward herewith the Minutes of 6th Meeting of the Committee to monitor offering of power by Generators and load shedding by Distribution Licensees, held on 03.03.2025 under the Chairmanship of Additional Secretary (Power), for information and necessary action.

Encl. as above

Vkumar
7/3/2025

(Vikash Kumar)
Under Secretary (Distribution)
Tel: 011-23705268
Email: vikash.69@gov.in

To:

All Committee Members

Minutes of 6th meeting of the High-Level Committee to monitor offering of power by Generators and load shedding by Distribution Licensees.

The 6th Meeting of the High-Level Committee was held under the chairmanship of Additional Secretary (Power) on 03.03.2025. The list of participants is at **Annexure I.**

2. Deputy Secretary (Distribution), Ministry of Power welcomed all committee members and other participants from various departments of Ministry of Power, Grid -India, RECPDCL, PFC and Officials from DISCOMs.

3. ATR of 5th Meeting was presented during the meeting. The deliberations during the meeting are summarised below.

3.1. **Formation of monitoring cells and automatic compensation process**

(i) It was informed that out of 36 States/UTs, monitoring cells have been formed in 5 States/UTs (Gujarat, Madhya Pradesh, Andhra Pradesh, J&K, Ladakh), and remaining States/UTs will constitute monitoring cells by March '25.

3.2. **Offering of power by GENCOs under LPS rules.** It was informed that 3 new gas plants have been registered on the NOAR portal.

3.3. **NFMS report on power outages**

It was informed that out of 2.52 lakh feeders, 2.04 lakh feeders are now monitored across all States/UTs. Further, hours of supply data is now shared with the DISCOMs on a daily basis for necessary action.

3.4. **Discussion on PIB Reports on Power Outages**

(i) **Telangana:** It was informed that outages were due to tree branchs falling on lines and routine maintenance of LT lines. Supply was restored the next day.

(ii) **Haryana:** Representative of DISCOM informed that the outage was due to fire in the 220kV Substation, which led to a 36-hour power outage in some sectors of Gurugram.

4. After detailed deliberations, the following recommendations were made:

a. SERCs/JERCs may be followed up to expedite the formation of monitoring cells. **(Action by: RCM Div)**

b. States/UTs may be followed up to expedite the registration of GENCOs on NOAR portal. Grid India may write to MDs of GENCOs for registration in the portal and present a report in next meeting highlighting the reasons for non-registration. **Action by: GRID-INDIA, RCM Div)**

c. Correct hours of supply data may be acquired from Rajasthan DISCOMs (JdVVNL, JVVNL) **(Action by: RECPDCL)**

d. Balance approximately 50,000 feeders may be integrated with NFMS portal expeditiously. **(Action by: RECPDCL)**

The meeting ended with a vote of thanks to all participants.

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Annexure-I

List of Participants

S. No.	Name	Designation
Ministry of Power		
1.	Sh. Srikant Nagulapalli	Additional Secretary (Power)
2.	Sh. Sunil Kumar Sharma	Director (RCM)
3.	Sh. Praveen Kumar Dudeja	Director (OM)
4.	Sh. Aravind Kumar M.K.	Deputy Secretary (Distribution)
Grid-India		
5.	Sh. Suhas Dambhare	CGM, NLDC
6.	Sh. Anoop Sharma	Deputy Manager
RECPDCL		
7.	Sh. T. S. C. Bosh	CEO (RECPDCL)
8.	Sh. Jaspal Kushwah	GM, RECPDCL
PFC		
9.	Sh. Mayank Sharma	DGM (PFC)
DISCOMs		
10	Officials from the DISCOMs of state of Haryana and Telengana through VC.	

ANNEXURE-II

Status as on 03-03-25

Intra-state* Coal (inc. lignite) Plants			
State	**Total No.**	**Registered in NOAR**	**Name of the plants NOT registered**
Haryana	4	0	Panipat, Rajiv Gandhi, Yamuna Nagar, Mahatma Gandhi
Punjab	5	0	Lehra Mohabbat, Ropar, Goindwal Sahib, Rajpura, Talwandi Sabo
Rajasthan	12	3	Chhabra-II, Chhabra-I Ph-1, Chhabra-I Ph-2, Kalisindh, Kota, Suratgarh STPS, Suratgarh TPS, Giral
Uttar Pradesh	16	4	Anpara, Harduaganj, Jawaharpur, Obra, Parichha, Lalitpur, Rosa Ph-I, Barkhera, Khambarkhera, Kundarki, Maqsoodpur, Utraula
Chhattisgarh	5	0	DSPM, Korba-West, Marwa, Katghora, Swastik Korba
Gujarat	12	9	Sabarmati (D-F Stations), Akrimota (Lignite), Surat (Lignite)
Madhya Pradesh	6	2	Amarkantak Ext., Sanjay Gandhi, Satpura, Shree Singaji
Maharashtra	18	13	Bela, Dahanu, Butibori, Mihan, GEPL Ph-I
Andhra Pradesh	5	1	Dr. N. Tata Rao, Rayalaseema, Damodaram Sanjeevaiah, Vizag
Karnataka	6	2	Bellary, Raichur, Yermarus, Adani Power Limited Udupi
Tamil Nadu	8	1	Mettur, Mettur-II, North Chennai, Tuticorin, Neyveli(Z), Tuticorin St-IV, Tuticorin(P)
Telangana	6	0	Singareni, Bhadradri, Kakatiya, Kothagudem (New), Kothagudem (Stage-7), Ramagundem-B
Jharkhand	2	0	Tenughat, Jojobera
Odisha	3	1	IB Valley, Vedanta/Sterlite
West Bengal	12	0	D.P.L., Bakreswar, Bandel, Kolaghat, Sagardighi, Santaldih, Budge Budge, Haldia, Hiranmaye, Southern, Titagarh, Dishergarh
DVC	7	6	Bokaro `A` Exp.
TOTAL	**127**	**42**	85 non-registered

*incl. state IPP and plants scheduled by the state (SLDC)

Status as on 03-03-25

Intra-state* Hydro Plants			
State	**Total No.**	**Registered in NOAR**	**Name of the plants NOT registered**
Himachal Pradesh	12	4	Bassi, Giri Bata, Larji, Sanjay, Integrated Kashang, Shanan, Chanju-I, Baspa
Jammu & Kashmir	6	2	Lower Jhelum, Upper Sindh-II, Chutak, Nimoo Bazgo
Punjab	7	0	Anandpur Sahib-I, Anandpur Sahib-II, Mukerian-I, Mukerian-II, Mukerian-III, Mukerian-IV, Ranjit Sagar
Rajasthan	4	0	Jawahar Sagar, Mahi Bajaj-I, Mahi Bajaj-II, R P Sagar
Uttarakhand	15	1	Chibro (Yamuna), Chilla, Dhakrani, Dhalipur, Khatima, Khodri, Kulhal, Maneri Bhali-I, Maneri Bhali-II, Ramganga, Vyasi, Shrinagar, Vishnu Prayag, Khara
Uttar Pradesh	3	0	Matatila, Obra, Rihand
Madhya Pradesh	11	0	Indira Sagar, Omkareshwar, Bansagar Tons-I, Bansagar Tons-II, Bansagar Tons-III, Bargi, Gandhi Sagar, Rana Pratap Sagar, Jawahar Sagar, Madhikhera, Rajghat
Maharashtra	13	0	Bhira Tail Race, Koyna DPH, Koyna-I&II, Koyna-III, Koyna-IV, Tillari, Vaitarna, Pench, Bhandardhara St-II, Bhira, Bhivpuri, Khopoli, Ghatgarh
Chhattisgarh	1	0	Hasdeobango
Gujarat	2	0	Ukai, Kadana
Andhra Pradesh	5	0	Lower Sileru, N J Sagar RBC & Ext., Srisailam, Upper Sileru-I&II, Srisailam LBPH, Machkund^
Telangana	6	0	Priyadarshini Jurala, Pochampad, N'Sagar, N J Sagar LBC, Lower Jurala, Pulinchinthala
Karnataka	16	0	Almatti, Gerusoppa (Sharavathy Tail Race), Ghat Prabha, Mahatma Gandhi (Jog), Kadra, Kalinadi (Nagjhari), Kalinadi (Supa), Kodasali, Lingnamakki, Munirabad, Sharavathy, Sivasamundrum, Varahi, Bhadra, T B Dam, Hampi
Kerala	14	0	Idamalayar, Idukki, Kakkad, Kuttiyadi, Kuttiyadi Extn., Kuttiyadi Additional Extn., Lower Periyar, Nariamangalam, Pallivasal, Panniar, Poringalkuttu, Sabirigiri, Sengulam, Sholayar
Tamil Nadu	27	0	Kadamparai, Aliyar, Bhavani Kattalai Barrage-I, Bhavani Kattalai Barrage-II, Bhavani Kattalai Barrage-III, Kodayar-I, Kodayar-II, Kundah-I, Kundah-II, Kundah-III, Kundah-IV, Kundah-V, Lower Mettur-I, Lower Mettur-II, Lower Mettur-III, Lower Mettur-IV, Mettur Dam, Mettur Tunnel, Moyar, Papanasam, Parson'S Valley, Periyar, Pykara, Pykara Ultimate, Sarakarpathy, Sholayar-I, Suruliyar
DVC	4	0	Maithon, Panchet, Subernrekha-I, Subernrekha-II
West Bengal	5	0	Purulia, Jaldhaka, Rammam, Teesta Low Dam-III, Teesta Low Dam-IV
Odisha	6	0	Balimela, Hirakud (Burla), Hirakud (Chiplima), Rengali, Upper Indravati, Upper Kolab
Arunachal Pradesh	2	0	Dikshi
Assam	2	0	Karbi Langpi, Myntreng
Meghalaya	9	0	Umaim St-III, Umiam St. I, New Umtru, Umiam St. IV, Myntdu St-I, Ganol, Lakroh, Sonapani, Umiam St-II
Mizoram	1	0	Serlui-B
Nagaland	1	0	Likimro
Tripura	1	0	Gumti
TOTAL	**173**	**7**	166 non-registered

*incl. state IPP and plants scheduled by the state (SLDC) ^Scheduling Jointly with Odisha

Status as on 03-03-25

Intra-state* Gas Plants			
State	**Total No.**	**Registered in NOAR**	**Name of the plants NOT registered**
Haryana	1	1	
Delhi	4	3	Rithala
Rajasthan	2	0	Dholpur, Ramgarh
Uttarakhand	2	2	
Gujarat	10	6	Hazira, Baroda, Essar, Peguthan
Maharashtra	3	2	Mangaon
Andhra Pradesh	10	1	Jegurupadu Ph-I, Gautami, Grel, Jegurupadu Ph-II, Konaseema, Kondapalli, Peddapuram, Vemagiri, Vijjeswaram
Tamil Nadu	6	0	Kovikalpal, Kuttalam, Valuthur, Karuppur, P. Nallur, Valantarvy
Puducherry	1	0	Karaikal
Assam	3	3	
Tripura	3	0	Baramura GT, Rokhia GT, Monarchak
TOTAL	**45**	**18**	30 non-registered

*incl. state IPP and plants scheduled by the state (SLDC)