



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

No. NERPC/SE(O)/OCC/2026/1304 - 1346.

Date: 05-08-2026

To
As per list attached

Sub: 240वीं ऑपरेशन समन्वय उप-समिति (ओसीसी) बैठक का कार्यवृत्त / Minutes of 240th Operation Coordination Sub-Committee (OCC) Meeting

महोदय/महोदया,

कृपया 24 जुलाई 2026 को गुवाहाटी में आयोजित 240वीं 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 मन्त्रिवालय को सूचित करें।

Sir/Madam,

Please find enclosed herewith the minutes of the 240th OCC Meeting held at Guwahati on 24th July, 2026 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,

(डी के बाउरी / D.K.Bauri)

निदेशक (परिचालन) / Director (Operation)

Encl: As above

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26. Chief Engineer, NPC Division, Central Electricity Authority, New Delhi – 110066
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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
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39. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura – 799014
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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

दिनांक 05/08/2026

(डी के बाउरी/ D.K.Bauri)

निदेशक (परिचालन) /Director (Operation)



सत्यमेव जयते

**MINUTES OF
240th OCC MEETING**

Time: 10:30 Hrs.

Date: 24th July, 2026 (Friday)

Venue: Hotel Nandan, Guwahati

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NORTH EASTERN REGIONAL POWER COMMITTEE

MINUTES OF 240th OCC MEETING HELD ON 24.07.2026 (FRIDAY) AT 10:30 HRS

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 239th Meeting of OCC Sub-Committee of NERPC

The minutes of 239th meeting of OCC Sub-committee held on 24.06.2026 at NERPC Conference Hall, Shillong were circulated vide letter No. NERPC/SE (O)/OCC/2026/1079-1121 dated 8th July 2026.

Deliberation of the sub-committee

As no comments were received from the constituents, the sub-committee confirmed the minutes of 239th OCCM as circulated.

2. PART-B: ITEMS FOR DISCUSSION

2.1 Implementation of Islanding schemes in NER-NERPC

In a recently held meeting, under Secretary (Power), MoP, the progress on implementation of islanding schemes was reviewed. Special emphasis was given on timely implementation of under implemented projects and covering the state capitals/ commercial centers under the islanding schemes. It is pertinent to mention that Islanding schemes for 3 state capitals of NER, viz; Shillong, Imphal and Kohima, have not yet been devised. Further, in the meeting the issue of inclusion of 4-hour BESS with Grid forming inverters into the islanding was deliberated.

In the above context, three issues have been enumerated below for the discussion of the forum –

- a. Shillong, Imphal and Kohima islanding schemes may be planned at the earliest. The island with higher load and technical feasibility may be taken up on priority.

- b. Implementation of Guwahati Islanding scheme to be expedited
- c. NTPC has recently obtained connectivity of 75 MW BESS at Bongaigaon TPP with starting date from August 2027. Since BgTPP is covered under Guwahati Islanding scheme, the effect of this BESS on the island is to be discussed and suitable measures to be planned to integrate/ exclude the BESS from the island.

Deliberation of the sub-committee

MS, NERPC apprised that in the meeting held under the chairmanship of Secretary (Power) to review the status of islanding schemes in the country, it was emphasised to cover the state capitals and important commercial centres under Islanding schemes. Therefore, islanding schemes for the remaining state capitals of NER, viz; Kohima, Shillong and Imphal have to be designed at the earliest. He added that PMU based scheme may be considered if the UFR based scheme is not technically feasible.

After detailed deliberation, the forum decided to constitute a technical committee, comprising of members from NERPC, NERLDC, and concerned SLDCs, STUs and GENCOs to steer head planning of the islanding schemes in a comprehensive manner.

Regarding Guwahati Islanding scheme, forum advised Assam to expedite implementation of the Guwahati Islanding Scheme. Assam informed that the tendering process will start shortly after obtaining the approval of Board of Directors. Assam added that the Board meeting is scheduled for 28th July'26.

Regarding the effect of BESS at NTPC BgTPP on the Guwahati Islanding scheme, the forum referred the matter to the technical committee, as formed above for studying the implications and possible modifications in the scheme to incorporate the BESS in the island.

Action Point:

- 1. NERPC secretariat shall constitute a technical committee to study the islanding schemes in comprehensive manner and devise the new schemes.***

2. Assam shall expedite the necessary approvals and initiate the tendering process for the Guwahati Islanding Scheme at the earliest.

2.2. Inputs for Finalization of Electricity Generation Programme (EGP) for FY 2027-28-NERPC

NERPC, vide emails dated 06.07.2026 and 14.07.2026, requested all constituent utilities and State Load Dispatch Centres (SLDCs) to furnish the requisite data for preparation of the Electricity Generation Programme (EGP) for FY 2027-28. The information sought includes:

1. Month-wise Energy Requirement and Peak Demand (during peak and off-peak hours) for FY 2027-28; and
2. Station Unit-wise Planned Maintenance Schedule of generating units for FY 2027-28.

The above information has been sought by **31st July 2026** to facilitate timely compilation of the All-India Energy Requirement and Peak Demand and finalization of the EGP.

As on date, Assam has furnished the month-wise Energy Requirement and Peak Demand (during peak and off-peak hours) for FY 2027-28. The requisite information from the remaining constituent States/utilities is awaited.

All constituent utilities and States may update the forum on the status of submission of the above information. Utilities which have not yet furnished the requisite details are requested to submit the same within the stipulated timeline and in the prescribed format to enable timely finalization of the Electricity Generation Programme for FY 2027-28.

Deliberation of the sub-committee

NERPC informed that communication for submission of month-wise energy requirement and peak demand for FY 2027-28, as well as the station-wise and unit-wise planned maintenance schedule of generating units dated had already been circulated to all concerned stakeholders vide mail dated 06.07.2026 and 14.07.2026. It was emphasized that the said information is essential for preparation of the Electricity Generation Programme (EGP) for FY 2027-28. The

forum advised all NER States and the concerned generating utilities to furnish the requisite information in the prescribed format latest by 31st July, 2026 to facilitate timely preparation of the Electricity Generation Programme.

The sub-committee took note of the same.

Action: All concern utilities.

2.3. Collection of Captive Power Plant (CPP) Generation data of NER- NERPC

Background:

The present electricity generation figures include only utility-based generation and exclude Captive Power Plants (CPPs), resulting in an incomplete assessment of total electricity generation and actual power consumption. The Central Electricity Authority (CEA) currently collects annual CPP generation data for plants of 0.5 MW and above from State DISCOMs under Format-21 of the Central Electricity Authority (Furnishing of Statistics, Returns and Information) Regulations, 2007. To strengthen data collection, CEA is developing an online portal for monthly reporting. In a meeting held on 15 April 2026, chaired by the Chairperson, CEA, it was directed that CPP data collection through the portal be pursued and monitored in OCC forums with participation of Regional Power Survey Offices (RPSOs).

Deliberation in 239th OCC Meeting:

NERPC apprised that although several CPPs in Assam have already been onboarded on the CEA portal for submission of generation data, timely submission of data by the onboarded CPPs is still not being ensured. NERPC further informed that 12 CPPs in Assam are yet to complete onboarding on the CEA portal. In this regard, NERPC requested the SLDC Assam to closely coordinate with the respective CPPs to expedite their onboarding on the CEA portal and ensure timely submission of the required data through the portal in accordance with the prescribed timelines.

Deliberation of the sub-committee

Assam apprised that all captive generating plants (CPPs) connected to the grid and falling under the jurisdiction of SLDC Assam have already been onboarded on the CEA Captive Portal for submission of generation data. However, certain

CPPs, including IOCL, Digboi, are yet to commence data submission as approval from their respective higher authorities is awaited. In this regard, Assam apprised that a formal communication has already been issued to the concerned CPPs and that SEI is coordinating closely with them to facilitate timely submission of the requisite data on the CEA portal.

The sub-committee took note of the same.

2.4. Unit-wise Restoration Status of Panyor Lower Hydro Power Station (3 × 135 MW)-NERLDC

All three generating units (3 × 135 MW) of Panyor Lower Hydro Power Station have been under forced outage since 24 June 2026 due to flash floods.

The Indian power grid is currently witnessing a substantial increase in electricity demand owing to the prevailing summer season. To meet the anticipated high all-India demand, it is essential that all generating units remain available and in healthy operating condition.

In view of the above, you are requested to kindly intimate the present unit-wise restoration status of Panyor Lower Hydro Power Station at the earliest.

Deliberation of the sub-committee

CGM (O&M), NEEPCO apprised that major challenge is being faced for desilting/desludging of the tail pool of the Dikrong (Panyor) Hydroelectric Project, which has severely affected the restoration activities.

Thereafter, the representative of NEEPCO presented the sequence of events leading to the outage and apprised the forum about the present status and progress of the ongoing restoration works for all three generating units of the Panyor Hydroelectric Project.

NEEPCO informed that the tentative restoration schedule for Unit-1, Unit-2 and Unit-3 is 16.08.2026, 07.08.2026 and 07.08.2026 respectively. The detailed presentation is enclosed as **Annexure-2.4**.

The forum took note and appreciated the commitment and continuous efforts of NEEPCO for restoring the units of Panyor HEP in the earliest possible time.

The sub-committee took note of the same.

Action: NEEPCO.

2.5. Installation of Energy Meters on Namsai-1 & Namsai-2 Feeders for Integration with AGBPS ABT Management System-NEEPCO

NEEPCO proposed to integrate the power and energy flow through the Namsai-1 and Namsai-2 feeders with the ABT Management System of Assam Gas Based Power Station (AGBPS), NEEPCO Ltd. To facilitate this integration, it is proposed to install two multifunction energy meters (Schneider PM8000, Accuracy Class 0.2) on the respective feeders.

The scope of work includes panel modification, provision of 220 V DC auxiliary supply, CT/PT connections, shorting of CT terminals, and communication interface for ABT data acquisition.

In this regard, NEEPCO have taken up the matter with POWERGRID, Namsai for necessary concurrence. POWERGRID has suggested that the proposal be deliberated in the OCC meeting prior to implementation.

NEEPCO request to kindly deliberate and accord approval for the following:

1. Permission to install multifunction energy meters on the Namsai-1 and Namsai-2 feeders for integration with the AGBPS ABT Management System.
2. Approval for shutdown of the Namsai-1 and Namsai-2 feeders for three hours each to facilitate installation and commissioning of the proposed energy meters.

Deliberation of the sub-committee

NEEPCO apprised that the proposed additional meters to be installed on the Namsai-1 and Namsai-2 feeders for integration with the ABT Management System at AGBPS which are of digital type and would impose only a marginal additional burden of approximately 1–2 VA on the associated current transformers (CTs).

NERLDC intimated that if the cumulative burden on the CTs exceeds the permissible limit, the Special Energy Meters (SEMs) may record erroneous data. Accordingly, NERLDC emphasized that it is essential to ensure that the total CT

burden remains within the prescribed limits before installation of the additional meters.

Director (O), NERPC apprised that a similar issue had been deliberated during the 239th OCC meeting, wherein NEEPCO had sought permission for data extraction from existing SEMs for integration with the AI-based Energy Management and Asset Monitoring System at Kameng HPS. He further informed that both the present agenda and the earlier proposal involve issues related to the use of SEMs beyond their existing metering functions. In view of the regulatory implications, he informed that both matters would be referred to the NPC for detailed deliberation and examination of their conformity with the existing metering regulations.

Action Point: NERPC shall place the matter to the NPC for detailed deliberation.

Action: NERPC.

2.6. Renovation & Modernization for Life Extension of Loktak Power Station – NERPC

Background:

As per Agenda No. 2.22 the 236th OCC Meeting, the Renovation & Modernization (R&M) works of Loktak HEP are scheduled to commence from November 2026. During the complete shutdown of the generating station (November 2026 to April 2027), the 132 kV Loktak Switchyard will also undergo renovation, rendering power transfer through the switchyard unavailable. Accordingly, all concerned utilities were advised to ensure alternate arrangements for power transfer through the four 132 kV transmission lines emanating from Loktak Switchyard.

Since the Rengpang area of Manipur is presently fed radially from Loktak, Manipur was advised to expedite the restoration of the 132 kV Jiribam–Rengpang transmission line to ensure reliable power supply during the shutdown period. In the previous OCC meeting, Manipur informed that no progress had been made on the restoration works, though a proposal for SASCI funding had been submitted and the RoW issues involving NHIDCL had been

taken up with the concerned District Administration. NERLDC had requested NHPC to share the detailed shutdown schedule for advance operational planning, while Member Secretary, NERPC directed that a meeting of all stakeholders be convened to finalize alternate connectivity arrangements to minimize the impact of the shutdown.

In this regard, NHPC submitted the detailed work timelines vide email dtd. 23rd June, 2026.

NHPC, Manipur may update.

Deliberation of the sub-committee

The forum noted that the representative from Manipur was not available. In view of above, the forum requested NERPC to call a special meeting with Manipur and all other concerned stakeholders to deliberate the matter in detail and arrive at an appropriate resolution.

The sub-committee noted as above.

Action: NERPC.

2.7. Frequent Tripping of 132 kV Loktak-Rengpang Line of MSPCL-NHPC

During May and June 2026, the 132 kV Loktak-Rengpang Line experienced repeated trippings (18 no.), predominantly due to the operation of distance protection at different zones/locations. Further, five trippings of the line have already been recorded during July 2026 (till date).

The frequent faults and consequent tripping of the line have resulted in a significant increase in the operation of circuit breakers and associated switchgear at the Loktak end. Such repeated operations are undesirable as they may adversely affect the health of the equipment and increase the risk of **grid disturbance and/or loss of generation**.

Manipur may therefore be requested to investigate the root cause of the recurring trippings and take appropriate corrective measures to improve the reliability of the line.

Deliberation of the sub-committee

The forum noted that the representative from Manipur was not available. In view of above, the forum requested NERPC to call a special meeting with Manipur

and all other concerned stakeholders to deliberate the matter in detail and arrive at an appropriate resolution.

The sub-committee noted as above.

2.8. Revision of O/C Pickup Setting & Modification in CT Ratio for facilitating Load Increment in 33 kV Namsai Feeder Bay at 132/33KV, Namsai S/s (PGCIL)- DoP, Ar. Pradesh

The load demand on the 33 kV Namsai feeder has drastically increased due to prevailing hot weather conditions. This surge in demand has resulted in frequent Overcurrent (O/C) tripping of the feeder, severely affecting power stability in the region.

To mitigate this issue, DoP, Ar. Pradesh had previously requested PGCIL to increase the O/C Pickup setting of the 33kV Namsai feeder at the 132/33KV Namsai Substation (PGCIL end) from the current 200A to 292A.

However, PGCIL via their reply letter has expressed their technical inability to revise the settings upward due to the physical limitations of their existing 150/1A Current Transformer (CT) ratio. Consequently, PGCIL has advised DoP, Ar. Pradesh to take up this matter with the NERPC for a comprehensive solution.

In view of the urgency of ensuring uninterrupted power supply to consumers, DoP, Arunachal Pradesh has requested the forum to deliberate the matter in detail during this OCC meeting and facilitate an early resolution.

Deliberation of the sub-committee

Ar. Pradesh apprised that the 33 kV Namsai feeder at the 132/33 kV Namsai (PGCIL) SS has been experiencing frequent overcurrent (O/C) trippings due to the existing low protection setting of 200 A, particularly during periods of increased demand arising from the prevailing hot weather conditions. It was informed that these frequent trippings have adversely affected system stability in the region and have necessitated load shedding on several occasions. Ar. Pradesh further apprised that, although the rated ampacity of the line is around 300 A, the present protection setting restricts full utilization of the line capacity. In view of this, the State requested the forum to permit enhancement of the overcurrent setting from 200 A to 292 A.

NERPC observed that the rating of the current transformer (CT) installed on the 33 kV Namsai feeder is 150/1 A. It was, therefore, observed that enhancement of the relay setting without replacement of the CT would not be technically feasible. Accordingly, the forum advised POWERGRID to replace the existing CT to higher rating before proceeding with revision of the protection settings.

Powergrid agreed to replace the CT at the earliest.

The sub-committee noted as above.

Action Point: Powergrid.

2.9. Persistent Low Voltage in Rangia Area and Associated System Strengthening Measures-NERLDC

The Rangia area of the Assam Power System has been experiencing persistent low voltage conditions, particularly during the summer and monsoon seasons, even under normal operating conditions. The situation may further deteriorate following the outage of any major feeding element, such as one circuit of the 220 kV Bongaigaon–Rangia D/C line or the 132 kV Rangia–Motanga line.

It is also observed that the Assam Power System is drawing significant active power through the 132 kV Rangia–Motanga interconnection, resulting in increased stress on the Bhutan Power System. The Bhutan Power System Operator (BPSO) has expressed concern over the high-power drawl and has requested the opening of the 132 kV Rangia–Motanga line from the Motanga end to safeguard its network.

The matter has been deliberated in various OCC meetings as well as the 27th, 29th, 30th and 31st meetings of the NERPC & TCC meetings. Most recently, during the 239th OCC Meeting held on 24.06.2026, wherein AEGCL was advised to expedite the commissioning of the 400/220 kV Rangia Substation and its associated downstream transmission network at the earliest, and also to undertake a joint study with NERLDC to reassess the reactive power compensation requirements in the Rangia area.

Assam is requested to apprise the forum of its action plan and the measures proposed to mitigate the operational constraints and improve the voltage profile in the Rangia area of the Assam Power System.

Deliberation of the sub-committee

NERLDC apprised that The Rangia area of the Assam Power System has been experiencing persistent low voltage conditions. Rangia is presently being fed through the 220 kV BTPS–Rangia D/C transmission line and the 132 kV Montanga–Rangia transmission line. It was further informed that BPSO (Bhutan) has communicated that high power drawal through the 132 kV Montanga–Rangia line is causing stress on the Bhutan power system and requested to keep the line open during periods of high drawal to safeguard their network.

The forum observed that the issue could be effectively mitigated only after commissioning of the proposed 400 kV Rangia, Agomoni (Gossaigaon) and Sonapur Substations and, accordingly, advised Assam to expedite the commissioning of these important transmission projects.

Assam informed that the capacitor banks at Rangia, Nalbari and Barnagar Substations have been rectified to improve voltage support in the area.

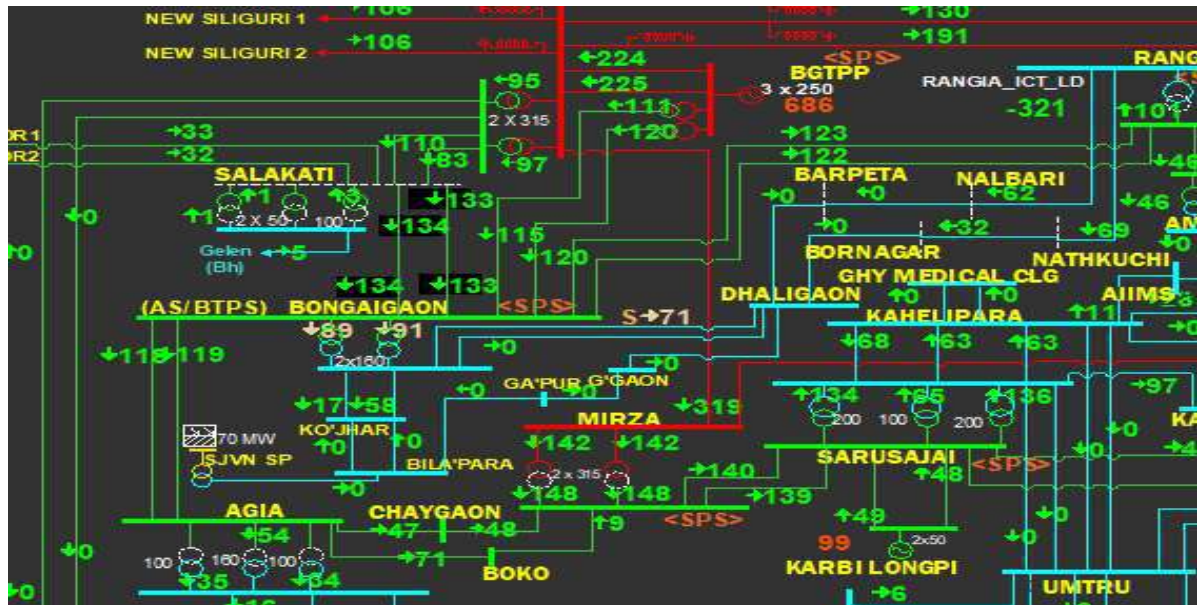
Assam further informed that nearly 40% of the physical work has already been completed for 400/220 kV Rangia Substation and it is tentatively scheduled for commissioning by April 2027. It was further informed that the 220/132 kV Agomoni (Gossaigaon) Substation is expected to be commissioned by September 2026, while the Sonapur Substation is targeted for commissioning by November 2026.

The sub-committee noted as above.

Action Point: Assam shall expedite the commissioning of the Rangia, Agomoni (Gossaigaon) and Sonapur Substations as mentioned above.

2.10. Review of Grid Disturbance at Bongaigaon and Expedited Commissioning of 220/132 kV Gossaigaon Substation-NERLDC

At 22:13 hrs on 03.07.2026, grid disturbance occurred in the Bongaigaon area (Kokrajhar, Bilasipara, Gauripur, Gossaigaon, Dhaligaon, Barpeta & part load of Bornagar) of Assam Power System due to tripping of both 220/132 kV, 160 MVA BTPS ICT-1 and ICT-2 at Bongaigaon. Load loss of around 300 MW (as per SCADA) had occurred.



Analysis/observations based on DR data:

220/132 kV BTPS ICT-2 tripped due to HV side OC in R & Y phase current exceeds HV side OC setting of 120% of full load current (420 A) i.e. 504 A resulted into the tripping of ICT-2 as per IDMT characteristics. This indicates combined loading of 350 MW in ICTs of BTPS.

After tripping of 220/132 kV BTPS ICT-2, Loading in 220/132 kV ICT-1 observed was 340 MVA (212%) with Active power 330 MW approximately. This resulted in successful SPS operation at 22:13:40.487 Hrs which led to reduction of approx. 102 MW (as per SCADA) due to SPS operation.

SPS Stage-1 resulted in load shedding of 55 MW after 2 seconds, hence 220/132 kV ICT-1 loading decreased to 275 MW and 284 MVA (177%). SPS Stage-2 resulted into load shedding of another 47 MW after 3 seconds, hence 220/132 kV ICT-1 loading decreased to 228 MW and 234 MVA (146%).

Despite operation of SPS at BTPS, 220/132 kV BTPS ICT-1 loading was above the safe limit of 120% of full load current at 22:13:46.222 Hrs, 220/132 kV BTPS ICT-1 tripped.

Details of SPS Scheme at Bongaigaon (Assam):

If any of the 2x160 MVA 220/132 kV ICTs at BTPS(Assam) are loaded to 122% of their full load capacity, Load shedding of 140 MW will be done in two stages

with delay of 2 sec in Stg-1 & 3 sec in Stg-2. The combined load in SPS Stage-1 is 81.17 MW and that of SPS Stage-2 is 59 MW.

Although the Special Protection Scheme (SPS) at BTPS operated correctly on 03-07-2026, it was unable to prevent the grid disturbance due to the high load demand of around 350 MW in the Bongaigaon area. This indicates that the Bongaigaon area is highly vulnerable to grid disturbances, as both 160 MVA ICTs were loaded above 170 MW each under normal operating conditions.

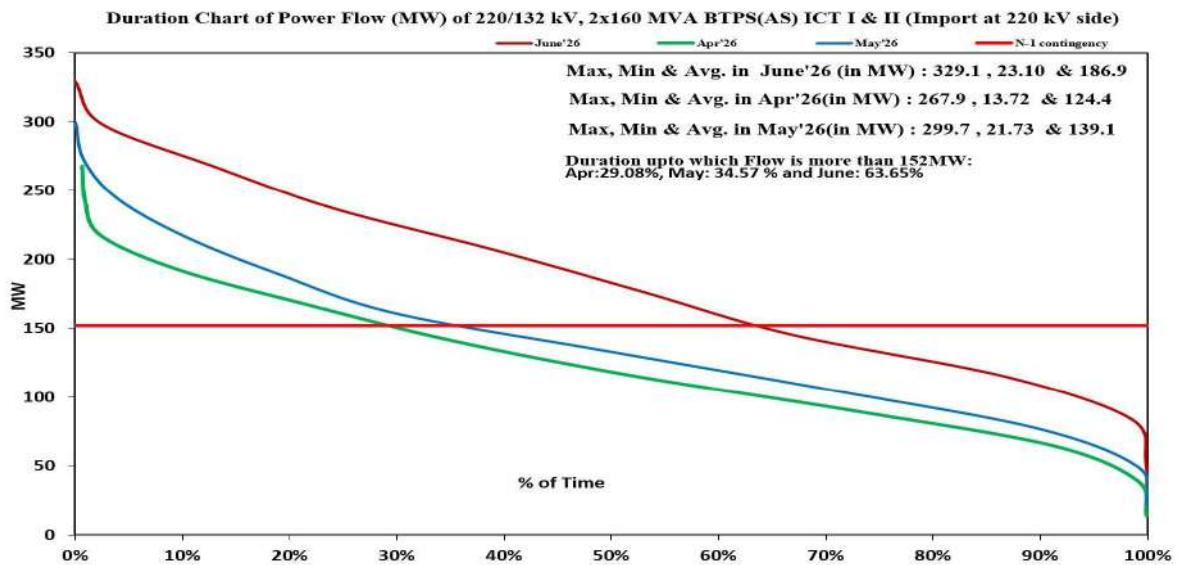


Fig: Duration curve for 2x160 MVA ICT at Bongaigaon (AS)

To address this constraint, the 220/132 kV Gossaigaon Substation has already been planned and is under construction by AEGCL. However, considering the critical system conditions, AEGCL is once again requested to expedite the commissioning of the 220/132 kV Gossaigaon Substation in a time-bound manner and apprise the forum of the project status and expected commissioning schedule.

Additionally, the SPS at Bongaigaon needs to be reviewed and the following remedial measures may be adopted until the commissioning of the 220/132 kV Gossaigaon LILO.

The combined loading on both 220/132 kV ICTs at Bongaigaon should be maintained within 300 MW.

An additional 40–50 MW load shedding may be incorporated in SPS Stage-1 & 2 at BTPS to avoid complete blackout after SPS operation.

Deliberation of the sub-committee

NERPC apprised that on 03.07.2026 a grid disturbance was occurred in the Bongaigaon area of Assam Power System due to tripping of both 220/132 kV, 160 MVA ICT-1 and ICT-2 at BTPS and Load loss of around 300 MW (as per SCADA) had occurred at Bongaigaon area.

Dy. Director, NERPC stated that GD is consequence of inadequate transformation capacity available to cater the increasing demand in the Bongaigaon area. The loading pattern indicated that the two 220/132 kV, 160 MVA ICTs at BTPS are operating at very high loading levels during peak demand periods and are frequently subjected to loading beyond operating limits.

Further, NERPC expressed serious concern regarding the delay in commissioning of the 220/132 kV Agomoni (Gossaigaon) Substation and the third ICT at BTPS. It was highlighted that these projects were envisaged to address the growing demand in the Bongaigaon area and their non-completion has resulted in continuous stress on the existing ICTs at BTPS. Further, she sought the implementation timeline of the 220/132 kV Gossaigaon Substation and the third ICT at BTPS.

AEGCL informed that there is sudden increase in loading of around 20-25 MW on the BTPS ICTs due to the railway traction load in addition to their 20-25 MW load, which is one of the reasons for overloading the ICTs within a short duration. AEGCL further informed that the matter has already been taken up with the Railway authorities to explore suitable measures and restrict their drawl within the allotted quantum.

Assam further informed that the commissioning of the Agomoni (Gossaigaon) Substation is expected by September 2026 and assured the forum that all efforts are being made for its timely completion.

NERLDC informed that, in view of the recurring grid disturbances in the Bongaigaon area, a special meeting on "Remedial Measures to Prevent Grid

Disturbances in the Bongaigaon Area" was convened on 15.07.2026 in hybrid (online and offline) mode and followings was decided:

IDMT Overcurrent protection (51) will be reviewed by AEGCL for both the transformers (2X160MVA ICT#1 and ICT#2) to safeguard against unplanned load drawl by railway traction feeders and appropriate revision will be proposed. Moreover, the settings and logic of present SPS may be kept unchanged, any increase in load for the ICTs (>Full load capacity and < SPS set value) will be handled either by manual intervention of Control Room operators or by automatic load shedding as decided in. Necessary alarms for overloading at 90%, 100% and 110% will also be configured at the local substation SCADA system for efficient monitoring.

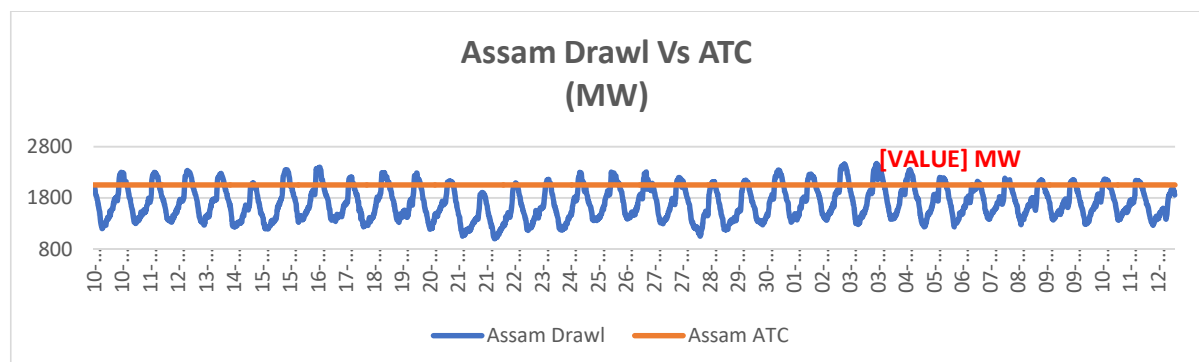
The sub-committee noted as above.

Action: Assam.

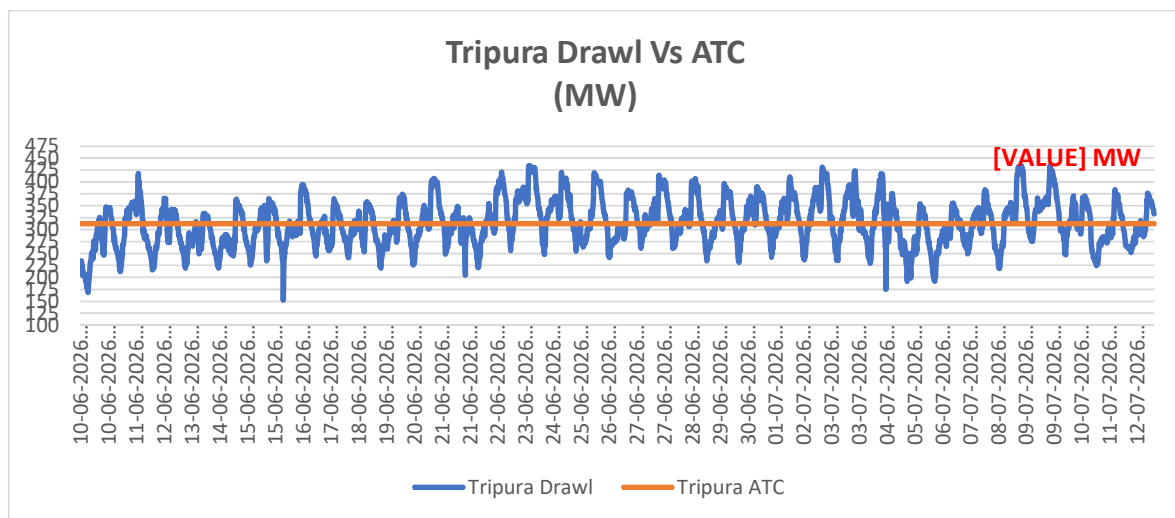
2.11. Violation of TTC/ATC by Assam and Tripura Power system-NERLDC

Continuous violations of the TTC/ATC limits of the Assam and Tripura power systems are being observed. These violations are primarily due to the persistent delay in the commissioning of approved projects.

In the Assam power system, drawl beyond the TTC limit places undue stress on the 220 kV Agia–BTPS D/C, 220 kV Balipara–Sonabil D/C, and 220 kV Misa–Samaguri D/C transmission lines. The outage of any one of these transmission circuits may result in cascading tripping, thereby jeopardizing the security of the Assam power system. Study suggests that the early commissioning of the 400/220 kV Sonapur, 400/220 kV Rangia, and 220/132 kV Agomoni (Gossaigaon) substations, along with the associated downstream network developments, would enhance the drawl capability of the Assam power system.



Similarly, in the Tripura power system, drawl beyond the TTC limit places excessive loading on the 132 kV SM Nagar–SM Nagar (ISTS) transmission line. Further, the outage of the 132 kV SM Nagar (ISTS)–Budhjung Nagar transmission line may lead to cascading tripping, adversely affecting the reliability of the Tripura power system. Early completion of the reconductoring works of the 132 kV SM Nagar–SM Nagar (ISTS), 132 kV SM Nagar (ISTS)–Budhjung Nagar, and 132 kV PK Bari (ISTS)–Manu transmission lines would improve the drawl capability of the Tripura power system. In addition, increased generation from the Rokhia and Baramura generating stations is expected to alleviate the existing constraints in the Tripura power system.



AEGCL and TSECL are requested to take all necessary measures to improve the drawl capability of their respective power systems by ensuring the timely implementation and commissioning of the approved projects.

Deliberation of the sub-committee

NERLDC apprised the forum that, on several occasions, the drawal by Assam had exceeded the Available Transfer Capability (ATC) of the State. It was further informed that the issue is expected to be substantially mitigated upon commissioning of the proposed Rangia, Sonapur and Agomoni (Gossaigaon) Substations, which would enhance the transfer capability and strengthen the transmission network of the State.

NERLDC further apprised that instances have also been observed wherein the drawal by Tripura exceeded the State's Available Transfer Capability (ATC).

Further NERLDC stated that Early completion of the reconductoring works of the 132 kV SM Nagar–SM Nagar (ISTS), 132 kV SM Nagar (ISTS)–Budhjung Nagar, and 132 kV PK Bari (ISTS)–Manu transmission lines would improve ATC of the Tripura power system. However, Tripura should maximize generation from the Monarchak and Rokhia Gas-Based Generating Stations, subject to availability of gas, so as to reduce dependence on drawal from the regional grid and maintain operation within the permissible ATC limits.

MS, NERPC expressed serious concern over the continued delay in completion of the First Time Charging (FTC) formalities for the pending transmission elements in Tripura and directed the State to complete all pending FTC-related activities before the next OCC meeting to facilitate enhancement of the State's transfer capability and improve overall system security.

Action Point: Assam shall expedite commissioning of the Rangia, Sonapur and Agomoni (Gossaigaon) Substations, and Tripura will complete all pending FTC formalities before the next OCC meeting to enhance the State's ATC and system security.

2.12. Early Restoration of 132kV Lekhi-Chimpu line-NERLDC

132 kV Lekhi–Chimpu transmission line has been under outage since 06:11 Hrs on 30-05-2025 due to Tower No. 5 being on the verge of collapse, caused by heavy rainfall, as reported by the Department of Power (DoP), Arunachal Pradesh.

During the 228th OCC Meeting held on 25.07.2025, DoP, Arunachal Pradesh informed that restoration works were in progress and were expected to be completed within three months. However, the transmission line continues to remain under outage.

DoP, Arunachal Pradesh is requested to apprise the forum of the present status of the restoration works, the reasons for the delay, and the revised timeline for restoration of the 132 kV Lekhi–Chimpu transmission line.

Deliberation of the sub-committee

Ar. Pradesh appraised that the construction works associated with the restoration of the 132 kV Lekhi–Chimpu transmission line has been completed.

It was further informed that the application for Electrical Inspector clearance has already been submitted and that only validation of a few remaining data points is pending. Arunachal Pradesh expressed confidence that, upon receipt of the requisite clearance and completion of the pending validations, the transmission line is expected to be charged within the next few days.

The sub-committee took note of the same.

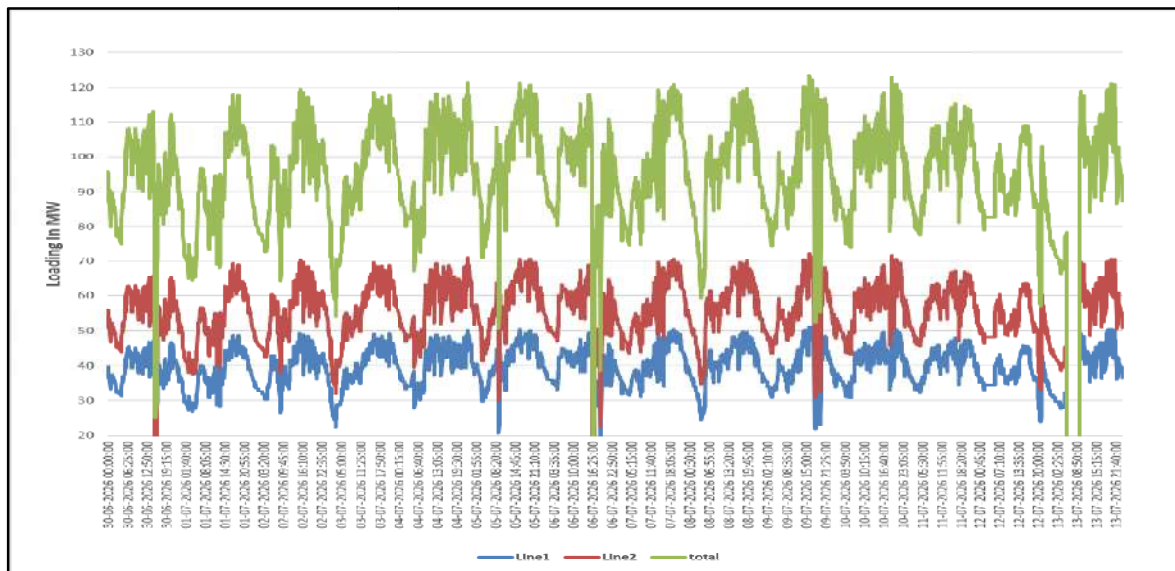
Action: Arunachal Pradesh.

2.13. Loading Imbalance in 132 kV Dimapur (PG) – Dimapur (NL) Line-1 & Line-2-NERLDC

The demand in the Nagarjan (Dimapur) area of the Nagaland power system is supplied through the following parallel 132 kV transmission lines:

Name	Owner	Length	Conductor
132 kV Dimapur (PG) – Dimapur (NL) 1 Line	DoP, Nagaland	0.65 KM	ACSR Panther
132 kV Dimapur (PG) – Dimapur (NL) 2 Line	DoP, Nagaland	0.95 KM	ACSR Panther

Loading profile of the lines as shown below-



Under normal operating conditions, approximately 40% of the load is carried by Line-1, whereas 60% is carried by Line-2, despite both lines being of similar configuration and connected in parallel.

Further, a significant phase-wise current imbalance has been observed between the two circuits, as given below:

Element	R-ph Current	Y-ph Current	B-ph Current	Loading (MW)
Line-1	243 A	237 A	196 A	45 MW
Line-2	298 A	310 A	349 A	65 MW

It is observed that the B-phase current in Line-1 is considerably lower than the other two phases, whereas the B-phase current in Line-2 is significantly higher. Consequently, during periods of high loading, the B-phase current of Line-2 exceeds the SPS pickup setting (390 A), even though the overall three-phase MW loading remains within permissible limits. This has resulted in unintended operation of the SPS at Dimapur (NL).

The load shedding due to SPS operation as shown below-

Sl.	Date	Time	SPS Scheme Load Shed Quantum
1	26-Jun-26	18:28 hrs	30 MW
2	29-Jun-26	16:22 hrs	16 MW
3	02-Jul-26	16:35 hrs	30 MW

To investigate the issue, DoP, Nagaland has availed daytime shutdowns of both Line-1 and Line-2 for CRM testing and other diagnostic investigations on 13th July'26. However, the root cause of the abnormal phase current distribution has not yet been identified, and the issue continues to persist.

In view of the above, the OCC Forum may discuss the issues and recommend appropriate measures for improving the reliability and security of the Nagaland power system.

Deliberation of the sub-committee

Forum advised that the issue relating to loading imbalance between the 132 kV Dimapur (PG)–Dimapur (NL) Line-I and Line-II should be investigated in detail. It

was further decided that experiences and best practices adopted in other regions for addressing similar issues may also be examined so as to identify an appropriate technical solution.

MS, NERPC apprised the forum that the matter would be referred to the Protection Coordination Committee (PCC) of NERPC for detailed technical deliberation and further recommendations.

Action: NERPC

2.14. Healthiness of Transfer Bus Coupler Bay at 132 kV Kolasib Substation-NERPC

POWERGRID, vide its letter dated 06.07.2026, informed that the 132 kV Aizawl–Kolasib transmission line tripped on 05.07.2026 at 16:53 Hrs due to a B-phase fault. Although the line was successfully charged from the Aizawl end at 17:37 Hrs, the circuit breaker at the Kolasib end could not be closed due to a mechanical defect. Consequently, the line remained out of service until 08:19 Hrs on 06.07.2026, when the circuit breaker was rectified and the line was restored.

POWERGRID further informed that the Kolasib substation is configured with a Single Main and Transfer Bus arrangement, which facilitates the transfer of a feeder to the Bus Coupler Bay in the event of failure or maintenance of the feeder's main circuit breaker. However, during the restoration process, the Transfer Bus Coupler breaker was found to be completely dismantled, rendering the transfer facility unavailable and thereby delaying restoration of the transmission line. It was also informed that the bay at the Kolasib end is maintained by POWERGRID, while the substation belongs to the P&ED, Government of Mizoram.

In its communication, POWERGRID requested coordination with the P&ED, Mizoram to ensure the healthiness and operational readiness of the Transfer Bus Coupler Bay so that the intended redundancy of the substation bus configuration remains available during contingencies. POWERGRID also requested that the transmission line be considered deemed available during the above period, as the prolonged outage was attributable to the non-availability of the Transfer Bus Coupler arrangement.

Deliberation of the sub-committee

Mizoram apprised that the restoration work of the transfer bus coupler breaker at the 132 kV Kolasib Substation is presently in progress and is expected to be completed within the current month. It was further informed that, upon completion of the restoration works, the transfer bus coupler breaker would be made available for normal operation.

The sub-committee took note of the same.

2.15. Monthly Review of PDMS Data Updation for Newly Added Network Elements during May- 2026-NERPC

During the 238th OCC meeting, Member Secretary, NERPC emphasized that the utility of PDMS can be fully realized only when the data available in the system remains accurate, complete, and updated.

The forum was also informed that NERPC and NERLDC shall coordinate with PRDC to ensure that all relevant data pertaining to transmission and generation elements are updated in PDMS prior to issuance of First Time Charging (FTC) approval for any transmission element.

Further, Director (Operation), NERPC suggested that all upcoming ISTS as well as intra-state transmission and generating elements may be brought before the OCC on a monthly basis so that their technical details, connectivity information, protection data, and other relevant particulars can be incorporated in PDMS in a timely and systematic manner.

In line with the above deliberations, NERLDC and all constituent utilities are requested to furnish the details of all newly added Inter-State Transmission System (ISTS), Intra-State Transmission System (InSTS), generating stations, IPPs, and other associated network elements commissioned/added during the month of May 2026, so that the same can be incorporated and validated in the PDMS database in a timely manner.

In 239th OCC Meeting, it was decided that NERLDC shall share details of all newly integrated ISTS/InSTS elements with NERPC, and all States shall regularly furnish details of newly integrated intra-state grid elements to NERPC for timely updation of the PDMS database.

Deliberation of the sub-committee

NERPC apprised that Assam has submitted the details of the newly integrated grid elements for incorporation into the PDMS database.

NERLDC further apprised that the details of newly added grid elements for the months of May and June have also been shared with NERPC for necessary updation of the database. NERLDC suggested that a standardized format may be finalized for submission of such data so as to ensure consistency and uniformity in reporting by all stakeholders.

Director (O), NERPC requested NERLDC to furnish the corresponding details for the month of April as well to maintain completeness of the database. He further informed that a standardized format for submission of newly integrated grid elements would be finalized and circulated to all stakeholders in due course. Further, he advised that, in cases where no new grid elements are commissioned during a particular month, the concerned utility should submit a '**NIL**' report to ensure completeness and continuity of monthly reporting.

Action Point:

- 1. NERLDC shall furnish the details of newly integrated grid elements for April to June.***
- 2. NERPC shall prepare the standard format for submission of data by utilities.***

2.16. First time charging Procedure for elements under NERPSIP and Comprehensive projects-NERLDC

FTC Procedure for elements under NERPSIP and Comprehensive projects was approved in 189th OCC Forum. However, following the implementation of the IEGC, 2023 and subsequent amendments to the relevant rules and regulations, the procedure requires revision to align with the current regulatory framework and prevailing operational practices.

As several elements are proposed to be integrated into the grid under NERPSIP and Comprehensive Schemes, the asset owner shall submit the FTC application to NERLDC via email/ FTC Portal in accordance with the prescribed procedure and timelines for obtaining charging clearance.

SLDCs are thereby requested to submit the following necessary requirement to NERLDC prior to first time charging clearance by the SLDC's:

1. State Electrical Inspector clearance, wherever applicable, in accordance with Regulation 45 of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023.
2. SLDCs must ensure Telemetry data, Speech and Communication System in line with clause 11 of IEGC, 2023 and clause 6(3) of CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007, as amended from time to time. (Annexure A3, Annexure A4, Annexure B3 to be submitted and telemetry data to be made available at NERLDC)
3. SLDCs must submit the Optical Time Domain Reflectometer (OTDR) and Light Source and Power Meter (LSPM) and Site Acceptance Report (SAT) of Fibre Optic Terminal Equipment FOTE panel, FOTE's DC Power Source (DCPS) and PLCC panel in line with clause 48(5) of Central Electricity Authority (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022)
4. SLDCs shall also ensure healthiness of the protection system in line with CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time and ensure coordinated protection settings of the respective element as per RPC guidelines prior to first time charging. (Annexure B2, Protection setting approval from NERPC, Downloadable Relay settings and manually triggered DR/EL files to be submitted)
5. Also, Technical parameter as per format of NERLDC shall be furnished by respective SLDCs to NERLDC for network modelling and system studies. The same should also include proper protection data of the element and accuracy class of core instrument transformer used for metering.
6. SAMAST Meter/SEM Meters details as per the Annexure A5 & Annexure B4 quoting clauses as per the IEGC 2023 and further amendments.

Deliberation of the sub-committee

NERLDC informed that the First Time Charging (FTC) Procedure for elements under NERPSIP and Comprehensive schemes was approved in the 189th OCC Meeting. However, subsequent to the implementation of the IEGC, 2023 and amendments to the relevant regulations, certain additional information is also

required to be submitted by the concerned SLDCs to NERLDC prior to issuance of First Time Charging (FTC) clearance by the SLDCs.

The additional requirements are intended to ensure that the FTC procedure is aligned with the prevailing regulatory framework, applicable statutory provisions, and current operational practices.

Forum advised all the utilities to submit the necessary requirement as mention above to NERLDC prior to clearance of first time charging by the SLDC's.

The sub-committee took note of it.

Action: All utilities

2.17. Implementation of Uniform Methodology for Operational Data Reporting and Migration to 15-Minute Block-wise Operational Data under the Power Supply Position (PSP) Framework-NERLDC

Publication of the daily/monthly Power Supply Position (PSP) report and submission of operational data to the Ministry of Power (MoP) is a continuous activity undertaken by GRID-INDIA (NLDC/RLDCs) and requires the highest level of accuracy, consistency and transparency. To maintain a Single Source of Truth while publishing operational figures and exceptional records (such as all-time highest demand), the following measures are proposed:

1. States shall furnish their respective Maximum Demand Met, shortage during maximum demand met and the corresponding Demand (Demand Met + Shortage) for the respective reporting day/month.
2. Any revision in operational data after submission of the daily PSP report shall be promptly communicated to NERLDC. States shall also exercise due diligence to minimize revisions after submission of the daily PSP report.

At present, the PSP report is prepared based on hourly operational data (ISGS and intra state generation, imports/exports, demand Met and shortage) furnished by the states and ISGS utilities. However, with the implementation of the Indian Electricity Grid Code (IEGC), 2023, operational planning, scheduling, forecasting, resource adequacy assessment and metering are all carried out on a 15-minute time-block basis. Accordingly, migration to 15-minute block-wise

operational data is essential to ensure consistency with the prevailing operational framework.

Further, availability of 15-minute operational data will facilitate direct comparison of State-furnished demand with corresponding 15-minute schedules, Special Energy Meter (SEM) data, 15-minute demand forecasts and SCADA demand, enabling continuous reconciliation between scheduled, metered and telemetered data. This will help identify data inconsistencies, improve demand validation, facilitate timely feedback and corrections, and enhance the accuracy, transparency and reliability of operational reporting.

Accordingly, all States and ISGSs are requested to migrate from the existing hourly reporting to 15-minute block-wise operational data for PSP reporting.

It is proposed to implement the revised reporting framework with effect from the last week of July 2026, subject to completion of the necessary modifications in the PSP database and reporting application.

Deliberation of the sub-committee

NERLDC apprised that all States and Inter-State Generating Stations (ISGSs) may migrate from the existing hourly reporting format to 15-minute block-wise operational data for preparation and submission of the Power Supply Position (PSP).

It was informed that such migration would ensure consistency with the prevailing operational framework, wherein scheduling, forecasting, resource adequacy assessment, metering and other grid operation activities are carried out on a 15-minute time-block basis. NERLDC emphasized that adoption of the revised reporting format would improve the accuracy and effectiveness of operational planning and system analysis.

MS, NERPC requested all States and generating utilities to commence submission of 15-minute block-wise operational data for PSP reporting at the earliest. He emphasized that the availability of such granular operational data would ensure consistency and accuracy in the data being submitted to the Ministry of Power (MoP) and facilitate informed decision-making and effective

planning at the Ministry level, therefore requested all stakeholders to ensure timely compliance with the existing operational framework.

Action Point: All States and ISGSs shall migrate to 15-minute block-wise operational data for PSP reporting at the earliest to ensure compliance with the prevailing operational framework and facilitate effective operational planning.

2.18. Submission of Day-Ahead Resource Adequacy Data through the NERLDC Resource Adequacy (RA) Portal-NERLDC

To streamline the day ahead resource adequacy data submission process, improve data quality, eliminate manual handling and enable timely analysis, NERLDC has developed an online Resource Adequacy (RA) Portal. The portal provides a standardized platform for uploading day ahead RA files, automated data validation, real-time monitoring of submissions and timely dissemination of information required for day ahead regional resource adequacy assessment.

Accordingly, all State Load Despatch Centres (SLDCs) are requested to submit their Day-Ahead Resource Adequacy files exclusively through the NERLDC RA Portal in the prescribed format and within the timelines specified under the IEGC, 2023.

The proposed online submission mechanism may be implemented with effect from a mutually agreed date after successful completion of user onboarding and trial submissions by the state utilities. The portal can be accessed through <https://ra.nerlhc.in>.

Deliberation of the sub-committee

NERLDC apprised that, with a view to streamlining the process of submission of Day-Ahead Resource Adequacy (RA) data, an online Resource Adequacy (RA) Portal has been developed. It was informed that a demonstration of the portal has already been conducted for the concerned utilities.

NERLDC further emphasized that adoption of the portal would facilitate timely submission, improve data management, and enhance the efficiency and reliability of the resource adequacy assessment process across the region.

The forum advised all States and other concerned utilities to submit their Day-Ahead Resource Adequacy information through the NERLDC RA Portal in the prescribed format and within the timelines stipulated under the IEGC, 2023.

The sub-committee took note of it.

2.19. Regarding non-submission of Demand forecast and Resource Adequacy (RA) data as per IEGC 2023-NERLDC

IEGC 2023 mandated that each SLDC and such other entities (like bulk consumers) which are directly connected to ISTS will carry out the demand estimation for both active and reactive power (as per clause 31.2(a), 31.2(b), 31.2(f)) along with the generation capacity availability (as per clause 31.4(b)) for meeting the projected demand and submit the same to respective RLDC for regional level forecast by method of aggregation, each RLDC would further furnish the regional level as well as state level forecast data to NLDC for computation for all India level demand and generation estimation (as per clause 31.2(g)).

The timeline for submitting these data to RLDC/NLDC would be as given in Table-I (as per IEGC clause 31.2(h)).

Table-I: Timeline for Demand Estimation

Daily demand estimation	10:00 hours of previous day
Weekly demand estimation (Monday to Sunday)	First working day of previous week
Monthly demand estimation	Fifth day of previous month
Yearly demand estimation	30th September of the previous year

Status of submission of Demand estimation and RA data for the month of June 2026 is shown in the table below:

	Day-Ahead Resource Adequacy	Week Ahead Resource Adequacy (June 2026)	Month Ahead Resource Adequacy	Year Ahead Resource Adequacy

							y		y for 2026-27
		Week 1	Week 2	Week 3	Week 4	Week 5	Jun -26	Jul -26	
Arunachal Pradesh									
Assam									
Manipur									
Meghalaya									
Mizoram									
Nagaland									
Tripura									

Not in prescribed format	Data not submitted	Data Submitted	Irregular
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To facilitate effective operational planning, forecast and Resource adequacy data is essential. Hence, all SLDCs are requested to submit the required forecast data as per formats mentioned in NER operating Procedure 2025 and IEGC timeline mentioned above regularly.

Further as per the Report of honourable Member (Technical), CERC in order on Suo-motu petition No. 09/SM/2024, the issues of non-submission of resource adequacy data including demand estimation and generation data by the states to be deliberated.

Deliberation of the sub-committee

NERLDC apprised that all NER States, except Tripura, have submitted the requisite Resource Adequacy (RA) data. NERLDC requested Tripura to submit the Demand forecast and RA data in the prescribed format and also to furnish the Year-Ahead RA data at the earliest to facilitate timely assessment and planning.

Tripura agreed to submit the requisite Resource Adequacy (RA) data on timely manner.

Action: Tripura

2.20. Status of Resource Adequacy data from NER states and revision of data submission format-NERLDC

As per the IEGC, 2023, each SLDC/utility is required to furnish day-ahead, week-ahead, month-ahead and year-ahead Resource Adequacy (RA) data, including demand forecast, generation availability and reserves from intra-state resources, in accordance with the NLDC/RLDC Operating Procedure.

As deliberated under Agenda 2.21 of 239th OCCM held on 24th June 2026 at Shillong, the existing methodology for calculation of reserve requirements shall be taken up with Hon'ble commission for review in view of operational characteristics of NER states.

In view of the above mandate from IEGC and deliberation in 239th OCCM, the status of RA data submission from NER states as per prescribed format as on 14th July 2026 is shown in Table below:

Sl no.	State	Timeli ne	Receiv ed or not (in prescri bed format)	Remark
1	Arunac hal Pradesh	Day Ahead	Yes	Complete data received. Reactive power data is irregular.
		Week Ahead	Yes	Complete data received.
		Month Ahead	Yes	Reactive power forecast not mentioned
2	Assam	Day Ahead	Yes	Proposed procurement, proposed load shedding not mentioned
		Week Ahead	Yes	Proposed procurement, proposed load shedding details not mentioned
		Month Ahead	Yes	Proposed procurement, proposed load shedding data not mentioned

3	Manipur	Day Ahead	Yes	Reactive power forecast not mentioned
		Week Ahead	Yes	Reactive power forecast not mentioned
		Month Ahead	Yes	reactive power forecast data not mentioned
4	Meghalaya	Day Ahead	Yes	Complete data received.
		Week Ahead	Yes	Complete data received.
		Month Ahead	Yes	reactive power forecast data not mentioned
5	Mizoram	Day Ahead	Yes	Reactive power forecast not mentioned
		Week Ahead	Yes	Proposed procurement, proposed load shedding details, reactive power forecast data not mentioned
		Month Ahead	Yes	Proposed procurement, proposed load shedding, reactive power forecast data not mentioned
6	Nagaland	Day Ahead	Yes	Complete data received.
		Week Ahead	Yes	Complete data received.
		Month Ahead	Yes	Complete data received.
7	Tripura	Day Ahead	No	Reactive power forecast not mentioned

		Week Ahead	Yes	Reactive power forecast not mentioned
		Month Ahead	Yes	Reactive power forecast not mentioned

It is requested to furnish complete data in the prescribed formats for all the time horizons.

Deliberation of the sub-committee

NERLDC requested all NER state to submit the forecast data in the prescribed format and also to furnish the Reactive power forecast data at the earliest to facilitate timely assessment and planning.

Action: All concerned state utilities.

2.21. Operational Planning and Resource Adequacy for August 2026- NERLDC

The Operational Planning and Resource Adequacy assessment for August 2026 is attached 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 RA study for the month of August 2026 and apprised the forum of the anticipated demand–supply scenario across the NER States.

As per the study, no shortage is envisaged for Arunachal Pradesh during the month.

In the case of Assam, no shortage is envisaged for Assam during the month.

For Manipur, although the State is presently selling power in the market, a shortage scenario has been projected under the prevailing system conditions.

NERLDC further apprised that no shortage is envisaged for Meghalaya and Mizoram, whereas Nagaland is expected to experience a shortage scenario and may need to procure power from the market during peak hours.

In the case of Tripura, although no significant shortage is anticipated, the system is expected to remain stressed during the evening peak period.

The detailed RA study is attached as **Annexure-2.21**.

The sub-committee took note of it.

2.22. Outage planning-NERPC

Outage Planning of Generation/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.

Utilities have submitted the shutdown proposals for the month of August 2026 for discussion in OCC shutdown discussion meeting.

The SD Meeting for deliberating the Shutdowns proposals is scheduled on 15.07.2026 through online mode.

Deliberation of the sub-committee

NERPC apprised that the Shutdown (SD) Meeting was convened on 15.07.2026, wherein most of the shutdown proposals for the month of August 2026 were discussed and finalized. However, a few shutdown proposals required further deliberation at the OCC Forum.

NERLDC presented the shutdown proposals requiring deliberation and approval of the forum. The forum examined the proposals and deliberated upon the

associated system conditions, operational requirements, and grid security considerations before approving the shutdowns.

The list of approved outages for August 2026 is available on the NERPC website.

The sub-committee noted the same.

2.23. Preponement of Planned Shutdown of Palatana Block-1 -OTPC

The planned shutdown of Palatana Block-1 is presently scheduled from 20.09.2026 to 30.09.2026 (CEA approved). However, GT-1 has recently experienced repeated combustion anomalies, resulting in three forced trippings of Block-1.

Based on the operating condition of the unit, GE, the OEM of the Gas Turbine, has recommended carrying out an early borescopic inspection along with the necessary maintenance activities to prevent any further forced outages and to ensure reliable operation of the generating unit.

In view of the above, OTPC has requested that the planned shutdown of Palatana Block-1 be preponed to the first week of September 2026, preferably from 03.09.2026 to 27.09.2026, for a duration of 25 days.

Activities Involved:

- GT-1 borescopic inspection
- Annual inspection
- HRSG-1 licence renewal
- Major inspection of the Gas Turbine Generator

OTPC requests the forum to deliberate on and accord approval for the preponement of the planned shutdown of Palatana Block-1 from 03.09.2026 to 27.09.2026 for a period of 25 days, in place of the shutdown presently scheduled from 20.09.2026 to 30.09.2026, to facilitate the recommended inspection and maintenance activities. The matter is also placed before the forum for information of all beneficiaries and necessary approval.

Deliberation of the sub-committee

OTPC apprised that preponement of the scheduled shutdown of Palatana Block-1 is required to facilitate major inspection of the Gas Turbine Generator (GTG), in view of the combustion-related issues being experienced in the generating unit. The proposed inspection is aimed at identifying and rectifying any potential defects at an early stage, thereby mitigating the risk of future forced outages similar to the failure recently encountered in another unit.

OTPC further informed that during the proposed shutdown period, the station generation would reduce from the present level of approximately 450 MW to around 350 MW.

Assam raised that the State generally experiences its annual peak demand during September. Accordingly, availing the shutdown of a generating unit during this period could pose significant operational challenges. Assam further stated that arranging the requisite replacement power during the peak demand period may be difficult, particularly due to the uncertainties associated with procurement from the power market.

MS, NERPC stated that, as a general practice, maintenance shutdowns of thermal generating units are preferably scheduled during the monsoon period, when adequate hydro generation is generally available in the region. In view of the above, MS, NERPC requested Assam to explore the possibility of accommodating the proposed shutdown during September, considering the system requirements and availability of replacement power. Further, he strongly voiced that OTPC should strictly adhere the period of shutdown to 25 days as requested.

After detailed deliberation, considering the recent forced trippings/failures and the combustion-related issues in Palatana Block-1, the forum agreed in principle to the proposed preponement of the shutdown for carrying out the early borescope inspection along with the necessary maintenance activities. The forum noted that such preventive inspection and maintenance would help identify potential defects at an early stage, minimize the possibility of further forced outages, and ensure reliable operation of the generating unit.

It was further decided that the matter would be reviewed again in the next OCC meeting, based on the prevailing system conditions, demand scenario, and availability of adequate replacement power.

The sub-committee noted the same.

2.24. Availability & Healthiness of Transfer Bus Coupler at SEB's end- PGCIL

There are few bays maintained by POWERGRID in other SEB bays across the region. In one instance, it so happened that after tripping of one of the 132 kV Transmission Line Bay (Maintained by POWERGRID) the Circuit Breaker could not be taken into service due to mechanical issue. The same could be resolved only after 13 Hours after which the line was taken into service.

The SEB station was equipped with Main & Transfer scheme. However, due to non-availability of Breaker Poles in the Bus Coupler Bay, the feeder could not be transferred leading to long outage.

Considering the above situation, all the SEB and other utilities Stations mentioned below were requested to furnish the availability & healthiness status of Transfer Bus Coupler:

S.no.	Sub-Station	Bay Details	Bus Arrangement	Remarks
1	Gohpur	132 kV Nirjuli Gohpur	Double Main	AEGCL
2	Chapakhowa	132 kV Roing- Chapakhowa D/C	SMT	AEGCL
3	Kolasib	132 kV Badarpur- Kolasib	SMT	P&E, Mizoram
4	Kolasib	132 kV Aizawl- Kolasib	SMT	P&E, Mizoram
5	Hailakandi	132 kV Silchar- Hailkandi D/C	Single Main	AEGCL
6	79 Tilla	132 kV Agartala- R.C.Nagar	SMT	DOP,Tripura

7	Rangia	132 kV Rangia-Motanga	SMT	AEGCL
8	Pavoi	132 kV BNC-Pavoi D/C	SMT	AEGCL
9	Mariani	220 kV Mariani-Mariani-AEGCL	DMT	AEGCL
10	Mariani	220kV Kathalguri-Mariani-AEGCL		AEGCL
11	Kopili	220 kV Misa-Kopili D/C	DMT	NEEPCO
12	Kopili	220 kV Misa-Kopili S/C	DMT	NEEPCO
13	Khandong	132 kV Khandong-Kopili	DMT	NEEPCO
14	Khandong	132 kV Khandong-Khleriat	DMT	NEEPCO
15	Khliehriat	132 kV Khleriat-Khleriat-MEPCL	Single Main	MePCL
16	Samaguri	220 kV Misa-Samaguri D/C	DMT	AEGCL
17	Srikona	132 kV Silchar-srikona D/C	SMT	AEGCL

Deliberation of the sub-committee

The Status on availability & healthiness status of Transfer Bus Coupler as updated by utilities is as given below:

S.N	Sub-Station	Bay Details	Owner	Status
1	Gohpur	132 kV Nirjuli Gohpur	AEGCL	Double Bus with Bus Coupler available in new GIS under construction/ conversion.
2	Chapakhowa	132 kV Roing-Chapakhowa	AEGCL	Not healthy oil leakage in B-phase CT of

		D/C		transfer bus coupler during the time of installation and has been reported to PGCIL authorities
3	Kolasib	132 kV Badarpur- Kolasib	P&E, Mizoram	The 132 kV Bus Coupler VCB has not been dismantled; however, it is presently out of service due to SF ₆ gas leakage from the densimeter. Rectification work is currently in progress. In case the leakage cannot be successfully rectified at site, further necessary action shall be taken accordingly to restore the VCB to service.
4	Kolasib	132 kV Aizawl- Kolasib	P&E, Mizoram	Internal wiring of Bus Coupler panel inside the control room needs to be finalized.
5	Hailakandi	132 kV Silchar- Hailkandi D/C	AEGCL	N/A Transfer bus is not available at Hailakandi GSS
6	79 Tilla	132 kV Agartala- R.C.Nagar	DoP, Tripura	
7	Rangia	132 kV Rangia- Motanga	AEGCL	Bus coupler Breaker not in service due to SF ₆ gas leakage. Non available of 132 kV Circuit Breaker for replacement.
8	Pavoi	132 kV BNC- Pavoi D/C	AEGCL	Spring Charging motor is out of order/ SF ₆ Gas Leakage problem. Spring charging motor has already been sent for repairing.
9	Mariani	220 kV Mariani- Mariani- AEGCL	AEGCL	Healthy Currently in used
10	Mariani	220kV	AEGCL	Healthy

		Kathalguri- Mariani- AEGCL		Currently in used
11	Kopili	220 kV Misa- Kopili D/C	NEEPCO	Available and healthy
12	Kopili	220 kV Misa- Kopili S/C	NEEPCO	Available and healthy
13	Khandong	132 kV Khandong- Kopili	NEEPCO	Available and healthy
14	Khandong	132 kV Khandong- Khleriat	NEEPCO	Available and healthy
15	Khliehriat	132 kV Khleriat- Khleriat- MEPCL	MePCL	132kV Khliehriat GSS is a single Bus scheme.
16	Samaguri	220 kV Misa- Samaguri D/C	AEGCL	Healthy, as on 28-07-26
17	Srikona	132 kV Silchar- srikona D/C	AEGCL	TAN DELTA Values of CTs were Found to be above the permissible limits. All other bays equipments are healthy.

The sub-committee noted as above.

2.25. Repetitive Tripping of 33 kV O/G feeders-PGCIL

The issue of multiple tripping of 33 kV O/G feeders at Roing, Tezu, Namsai and Ziro SS is once again raised to draw attention of DOP, A.P to take proactive action in preventing such incidences. A brief accounting of total tripping for FY:2024-25 and FY:2025-26 is summarised below:

S. No.	SS Name	Total Tripping FY:2024-25	Total Tripping FY:2025-26	Remarks
1.	Ziro	725	730	↑

2.	Tezu	733	740	↑
3.	Roing	78	37	↓
4.	Namsai	120	155	↑

The record indicates a rising trend of tripping for Ziro, Tezu and Namsai SS. Such multiple tripping contributes to high through fault current which is fed through the transformers and deteriorates its life significantly.

Past record shows that at in the Year 2019 and 2021 the failure of Single-Phase Transformer at Ziro SS has caused long outage and power curtailment in the area. After that several times the issue was raised in the OCC forum but without any resolution.

DOP, AP is once again requested to take proactive action and minimise the tripping which would otherwise be the reason for failure of Transformers.

Deliberation of the sub-committee

NERPC reiterated its concern regarding the persistent multiple tripping of the 33 kV outgoing feeders at Ziro, Tezu, Roing and Namsai Substations. Referring to the tripping statistics presented, the forum noted that the number of trippings at Ziro, Tezu and Namsai Substations has shown an increasing trend during FY 2025-26 compared to FY 2024-25.

MS, NERPC expressed serious concern over the continuous trippings of these feeders and observed that the average number of trippings at certain substations is approximately two incidents per day. He stated that despite the issue being repeatedly deliberated in several OCC meetings over the past few years, no effective corrective action has been taken by the DoP Arunachal Pradesh to address the root cause of the problem.

MS, NERPC further observed that such frequent trippings subject the ICTs/Power Transformers to repeated through-fault currents, accelerating deterioration of transformer insulation and significantly reducing their service life.

The forum viewed the matter as one of serious operational concern and emphasized that continued inaction may ultimately lead to major equipment failure and prolonged outages, adversely affecting grid reliability and consumer supply.

Further, forum advised DoP, Arunachal Pradesh to treat the matter on priority and undertake a comprehensive line patrolling to identify the root causes of the frequent trippings of these feeders.

Ar. Pradesh stated that the matter would be examined in detail in coordination with the concerned field officials. It was further informed that, based on the findings of the examination, the status and necessary updates would be communicated to NERPC and NERLDC through email and further necessary action will be initiated.

Action: DoP Arunachal Pradesh

2.26. Construction of Powerline under the transmission lines of POWERGRID without taking requisite clearances and information-PGCIL

It has been observed with concern that in certain instances, Powerlines/LT lines are being constructed by various State utilities beneath POWERGRID transmission lines without obtaining prior permission or statutory clearance from the competent authority of POWERGRID. One such instance occurred on 10.05.2026 on the 220 kV Misa-Kopili III transmission line, where tripping of the line was attributed to the stringing of a newly erected 11 kV line by APDCL under Kheroni jurisdiction, with an inadequate vertical clearance of 1.0 metre. Such activities pose serious threats to system reliability, safety, and statutory compliance. In view of the above, it is requested that all State Utilities/Discoms strictly refrain from undertaking any construction or stringing activity under POWERGRID transmission lines without prior intimation, detailed scrutiny, and formal approval from the competent authority to avoid recurrence of such incidents and ensure safe operation of the grid.



Deliberation of the sub-committee

Referring to the incident of 10.05.2026 involving the 220 kV Misa–Kopili III transmission line, MS, NERPC expressed serious concern over the construction and stringing of Powerlines/LT lines beneath POWERGRID transmission lines without obtaining prior permission and requisite statutory clearances from the competent authority. He emphasized that such unauthorized activities pose a serious safety risk to personnel and equipment and may also lead to tripping of critical transmission lines, thereby adversely affecting grid security and reliability.

MS, NERPC requested Assam to look into the matter on priority and ensure that appropriate instructions are issued to all concerned field agencies to strictly adhere to the prescribed safety norms and obtain necessary permission/clearance from POWERGRID before undertaking any construction or stringing activity in the vicinity of POWERGRID transmission lines. It was emphasized that recurrence of such incidents must be prevented through proper coordination, prior intimation, and compliance with statutory safety requirements.

APDCL stated that the matter would be examined in detail in coordination with the concerned field officials and preventive measures would be taken for strictly adherence of the prescribed safety norms.

Action: APDCL

2.27. Connection agreement and FTC for 220kV D/C Transmission line from Dimapur to Zhadima - DoP, Nagaland

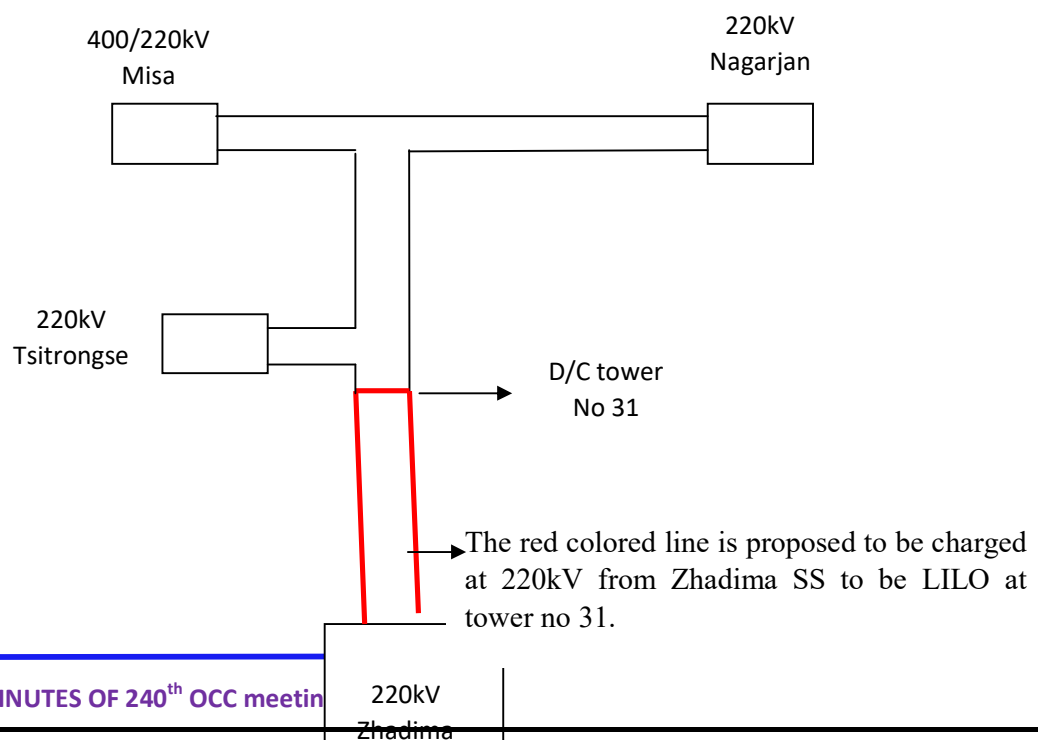
Construction of 220kV D/c Transmission line from Dimapur to Zhadima has been completed on 30th December 2024 in all respect and ready for commissioning.

As per the recommendation of the CEA, Construction of 220/132kV (2x100MVA) at Tsitongse (Dimapur) and Construction of LILO of Misa (PG)-Zhadima (Nagaland) 220kV S/C line is under progress which is funded by MDoNER.

The Department has already received NOC from Defence and Railways for availing PTCC clearance from CEA but NOC from BSNL is still awaited. However, MoP vide letter No. 34-3/33/2026-TRANS (MOP) Dated 21st April 2026 notified that PTCC clearance is not required w.e.f from 1st July 2026.

In this regard, NERPC is requested to examine and take up the matter with CTU for consideration for charging on a provisional basis with LILO connection at tower no 31 (near Tsitrongse Sub-station) from Zhadima Sub-Station as per the schematic diagram below till the completion of 220/132kV Tsitrongse Sub-Station since, the transmission line is at the risk of theft of tower members and possible RoW issues in near future if the line is not kept charge.

Schematic Diagram



Deliberation of the sub-committee

DoP, Nagaland apprised the forum that provisional antitheft charging of the 220 kV Dimapur - Zhadima transmission line through a LILO connection at Tower No. 31 (near the proposed Tsitrongse Substation) from the Zhadima Substation may be considered, as per the proposed schematic arrangement, pending completion of the 220/132 kV Tsitrongse Substation. It was further informed that the transmission line is susceptible to theft of tower members and potential Right of Way (RoW) issues if it remains unchanged for a prolonged period. Nagaland further apprised that the 220/132 kV Tsitrongse Substation is expected to be commissioned by June 2027.

After detailed deliberation the forum agreed to the proposal of DoP, Nagaland for provisional antitheft charging of the 220 kV Dimapur - Zhadima transmission line (upto tower no 31 from Zhadima S/S) through a temporary LILO connection at Tower No. 31 from the 220 kV Zhadima Substation.

NERLDC intimated that Nagaland may prepare and submit the FTC documents up to Tower No. 31 (near the proposed Tsitrongse Substation). Upon completion of the requisite formalities and approval of the FTC, provisional charging of the transmission line up to the said location may be considered.

MS, NERPC directed Nagaland to expedite preparation and submission of the FTC documents so that the proposal for provisional antitheft charging of the transmission line may be processed at the earliest in accordance with the applicable procedures.

Action Point: Nagaland shall submit the FTC documents to facilitate consideration of provisional charging of the transmission line up to the proposed LILO point.

PART-C: ITEMS FOR UPDATE/FOLLOW-UP

3.1. Automatic Generation Control (AGC) in Indian Grid (Agenda 3.18 of 33rd NETeST Meeting)-NERLDC

As discussed in the 33rd NETeST Meeting held in Guwahati on 24th April 2026, the Forum advised that the above-mentioned agenda be discussed in the monthly OCCM for regular updates.

In the 239th OCC meeting held on 24.06.2026, NEEPCO apprised the forum that, in respect of Doyang HEP, the OEM had quoted a comparatively high price for the closed loop testing required for implementation of AGC, and that negotiations with the OEM were underway; the work was expected to be completed by August 2026. OTPC apprised that implementation of AGC at Palatana is not considered feasible owing to the isolated nature of the Palatana grid system, and that a request seeking exemption has already been submitted before the Hon'ble CERC. The status for the remaining plants remained unchanged. Utilities concerned are requested to provide updated status for the 240th OCC meeting, as tabulated below:

Station Name	Status as per 239th OCCM	Status as per 240th OCCM
AGBPP (Kathalguri)	NEEPCO informed that they will decide internally for the necessary action on the Gas based plant to carry out the AGC in plant. Likely to go to CERC for exemption.	Status remains same as updated last
Doyang	NEEPCO apprised that the OEM had quoted a comparatively high price for the closed loop testing for implementation of AGC and that	Status remains same as updated last Status remains same as

Station Name	Status as per 239th OCCM	Status as per 240th OCCM
	negotiations with the OEM are underway. Work is expected to be completed by August 2026.	updated last
Kameng	Implementation of AGC at Kameng HEP is pending due to high vibration issues in the machines. Discussions are ongoing with the OEM for resolution of the issue.	Status remains same as updated last
Ranganadi (Panyor)	SCADA is very old, and for which DCS upgradation is required. Tender has been floated, and Technical Evaluation going on. AGC implementation will be carried out in the lean period, i.e., after Nov'26.	Status remains same as updated last
Pare	AGC implementation will be carried out in the lean period, i.e., after Nov'26.	Status remains same as updated last
RC Nagar	NEEPCO informed that they will decide internally for the necessary action on the Gas based plant to carry out the AGC in plant. Likely to go to CERC for exemption.	Status remains same as updated last
Palatana	OTPC apprised that implementation of AGC at Palatana is not considered feasible owing to the isolated nature of the Palatana grid system, and that frequent	Status remains same as updated last

Station Name	Status as per 239th OCCM	Status as per 240th OCCM
	increase/decrease in generation as per AGC signals may not be operationally feasible under prevailing grid conditions. A request seeking exemption from AGC implementation has already been submitted before the Hon'ble CERC.	
Subansiri Lower HEP		NHPC informed that AGC would be enabled after getting dam safety clearance for full FRL of Subansiri reservoir.

All utilities are requested to update the status of works and indicate the tentative timeline for completion of pending activities pertaining to them, as outlined in the Action Taken Report (ATR) circulated vide email dtd. 15th July, 2026.

Annexure-I

List of Participants in the 240th OCC Meeting held on 24.07.2026

SN	Name & Designation	Organization
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1	Sh. Purik Buchi, AE (E)	Ar. Pradesh
2	Sh. Chau Ratna, JE (E)	Ar.Pradesh
3	Sh. Arup Kr. Kalita, CGM, AEGCL	Assam
4	Sh. Soobham Saikia, CGM, SLDC	Assam
5	Sh. Debashish Choudhury, DGM (O), SLDC	Assam
6	Sh. Indrajit Tahbildar, DGM, APDCL	Assam
7	Smt. Sisrikhya Dutta, DM, APDCL	Assam
	-	Manipur
8	Sh. M.K.War, EE (SL), SLDC MePTCL	Meghalaya
9	Sh. Lalthanzuaza, SE, SLDC	Mizoram
10	Sh. Lalzarwana, AE	Mizoram
11	Sh. Pulovi Sami, SDO	Nagaland
12	Sh. P.Tiakaba Yimchunger, JE	Nagaland
13	Sh. Yanbothung Kithan, JE (Trans.)	Nagaland
14	Sh. Anil Debbarma, AGM,SLDC	Tripura
15	Sh. Bhaskar Goswami, CGM (O&M)	NEEPCO
16	Sh. Bhaskar Mazumder, DGM (T)	NEEPCO
17	Sh. Somara Lakra, ED	NERLDC
18	Sh. Biswajit Sahu, CGM	NERLDC
19	Sh. Anjan Kumar Pandey, Dy.Manager	NERLDC
20	Sh. Keshab Borah, Dy.Manager	NERLDC
21	Sh. Kishore Kalita, Asst.Manager	NERLDC
22	Sh. Rajesh Gupta, ED	PGCIL
23	Sh. Deep Bhowmick, Ch.Manager	PGCIL
24	Sh. Kamlesh Baishya, Dy.Manager	PGCIL
25	Sh. Suresh Kammila, Shift Incharge	OTPC
26	Sh. Niranjan Rabha, I/c NETC Guwahati	NETC
27	Sh. C.L.Khayuingam, GSM (E), LOKTAK	NHPC
28	Sh. Ravi Kumar, DGM (E), Subansiri	NHPC
29	Sh. Rajeev Keshri, Dy.Manager	KMTL
30	Sh. Mahesh Bhagat, Ch.Manager	Resonia
31	Sh. M.Shahzad Alam, Managing Director	Solvina
32	Sh. Ashish Mishra, Head Technical	Solvina
33	Sh. B.Lyngkhai, Member Secretary	NERPC
34	Sh. D.K.Bauri, Director	NERPC

35	Smti. Kanchan Chauhan, Dy.Director	NERPC
36	Sh. Vikash Shankar, Asst. Director	NERPC
37	Sh. Dinesh Kr.Singh, Asst. Director	NERPC
38	Sh. Ashim Kr. Goswami, Asst. Director	NERPC
39	Sh. Rajnish Kumar, Asst.Director	NERPC



Annexure : 2.4



FLASH FLOOD INCIDENT

**AT
3×135 MW
PANYOR LOWER HYDRO
POWER STATION,
ARUNACHAL PRADESH
On 24-06-2026**



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH

LOCATION

➡ Administrative building and Colony Complex: At 43 Km Yazali, Kei Panyor District

➡ Power House Complex: At Hoz, Papum Pare District

Note: administrative building & Power House complex located 30 km apart



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH

Sequence of Events on 24-06-2026

► Commencement of Heavy rainfall in and around the project area: 3 AM

A. Colony Complex at 43 km

- High flood in Pai Nallah passing through the right Side of the colony complex
- Heavy silt, debris and boulders carried by flood
- The Nallah changed its course towards colony area: 5.30 AM
- Alert announced by on duty security personal
- Majority of occupants fled to safe locations.
- Severe damaged to colony - Washed away 24 quarters and damaged 30 others
- Devastating Flood commenced receding at 8.30 AM, rain continued throughout the day



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH

Sequence of Events on 24-06-2026

B. Power House complex at Hoz

- 2 out of 3 units were under operation.
- High flood in stream passing through PH complex carried debris and slide materials causing blockage in drain and water to overflow
- Overflowing water which otherwise would flow into river diverted towards power house
- Ingress of water in service bay: 6.25 am
- Emergency shutdown of units: 6.40 am
- Emergency actions—breaking of boundary wall to divert water to Dikrong River, lowering of service bay shutter and erection of temporary barrier, clearance of debris from source stream to restore flow path
- Stoppage of water ingress into PH: 7.30 am
- Reduction of rainfall intensity: 8.30 am



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



POWER HOUSE COMPLEX, HOJ

01

INCIDENT

- Intense early morning rainfall caused a natural stream to overflow after debris blocked its flow, resulting in water ingress into the Power House Service bay.

02

IMPACT

- All the 3 Units, Service Bay and 400 kV Switchyard got affected by the flash flood. Units were placed under emergency shutdown at 06:40 Hrs.
- A large amount of silt with pebbles found deposited in the tail pool by the flood water

03

IMMEDIATE ACTION

- Water ingress into the Power House service bay was controlled by erecting temporary barriers, dewatering, diverting the water into the river by breaking of wall and clearing the blockage in the stream.
- The accumulated sludge water and mud in the service bay were cleared within three days.

Note: Main Control Room , 132 kV and 400 kV switchyards remain in service and are operational. All Feeders are also in-service ensuring continuity of power evacuation.



PHOTOS OF FLASH FLOOD INCIDENT AT POWER HOUSE, HOJ



Service Bay and Unit-1



Power House Entrance



400 KV Switchyard



Control Room



Unit-1 Top Dome



PHOTOS OF FLASH FLOOD INCIDENT AT POWER HOUSE, HOJ



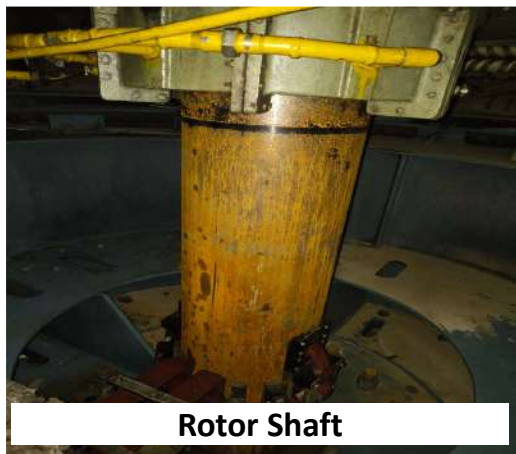
Inside Generator Barrel



Spider



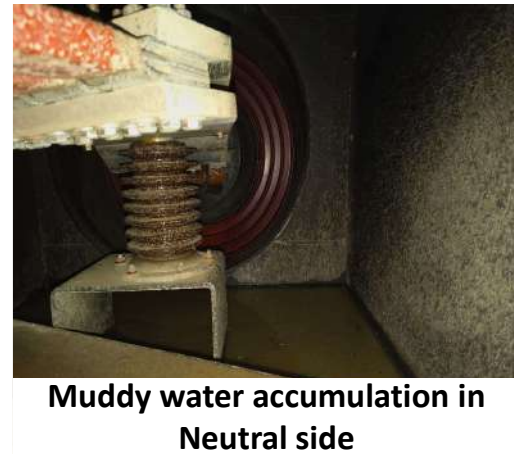
Top Air Guide



Rotor Shaft



Line Side Winding connection to
Bus Duct



Muddy water accumulation in
Neutral side



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



ADMINISTRATIVE COMPLEX, 43 KM

IMPACT

- 24 Nos residential buildings washed away and 30 Nos residential Buildings were damaged.
- The Central Store Office, 7 Nos. Store Godown, Multipurpose Building, Helipad, Protection Wall, and approximately 1 km of internal roads were damaged.

CASUALTIES:

- 4 fatalities (bodies recovered)
- 1 person missing

IMMEDIATE ACTION

- Rescue and relief operations undertaken jointly by the District Administration, SDRF, NDRF, Indian Air Force, Government of Arunachal Pradesh and NEEPCO.
- Evacuation, airlifting of injured persons and restoration of essential services initiated immediately.
- Due to disruption of water supply lines, water is being provided by tankers through Public Health Engineering department.



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



ADMINISTRATIVE COMPLEX, 43 KM

IMMEDIATE ACTION

- 252 Nos affected persons shifted to relief camps set up within the colony complex. Essential food, drinking water, cloths, mosquito nets, bedding materials, medicines are being provided to the victims.
- The disrupted electric supply to the 43 Km Residential Colony and the Administrative Building was restored through Diesel Generator set on 25.06.2026 and subsequently through the 11 kV line of DOP, A.P. on 30.06.2026.

PRESENT STATUS

- The Search and Rescue operation conducted by the SDRF/ NDRF called off on 01.07.2026 after obtaining the due consent of the family members of the missing persons.
- Restoration of roads is in progress.
- Preparation of Rehabilitation & Resettlement plan for affected residents and permanent flood mitigation measures including channelization of the affected streams are being undertaken.



PHOTOS OF FLASH FLOOD INCIDENT AT ADMINISTRATIVE COMPLEX, 43 KM



Residential Quarter



Damaged Quarter



Damaged Quarter



Helipad Area



43 KM Store Area



Residential Quarter

**PHOTOS OF
FLASH
FLOOD
INCIDENT AT
ADMINISTRATIVE
COMPLEX,
43 KM**



**एनटीपीसी
NTPC**



PHOTOS OF RELIEF CAMP AT 43 KM



Relief Camp



Distribution of Supply Water



Distribution of Drinking Water



Medical Camp



Distribution of Supply Water



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



PRESENT STATUS OF UNITS

Unit-1

- Lifting of two Nos Poles (Pole No-3&13) completed for cleaning of Stator.
- Cleaning of Stator & Rotor Completed.
- IR value of Pole No-3&13 achieved after heating.
- Heating of Stator and Rotor assembly is started on 16.07.2026 and temperature maintained at 80 deg.
- IR value of Stator Checked on 17.07.2026 and found 8.96 MΩ.
- Heating of Busduct completed after achieving IR value
- No Load Charging of Excitation Transformer continues

Unit-2

- Cleaning of Stator & Rotor Completed.
- Heating of stator and Rotor is started on 03.07.2026. Temperature maintained at 80 deg.
- Heating of Stator & Rotor assembly Stopped on 13.07.2026.
- IR value of Stator Checked on 17.07.2026 and found 269 MΩ
- 13 out of 20 Poles IR value achieved after dismantling from rotor rim, cleaning and heating.
- IR values of 7 Nos poles are still not achieved and they are currently in process of dismantling, cleaning and heating.
- Heating of Busduct completed after achieving IR value
- No Load Charging of Excitation Transformer continues

Unit-3

- Cleaning of Stator & Rotor Completed.
- Heating of stator and Rotor is started on 09.07.2026. Temperature maintained at 80 deg.
- Heating of Stator & Rotor assembly Stopped on 15.07.2026.
- IR value of Stator Checked on 17.07.2026 and found 333 MΩ
- 17 out of 20 Poles IR value achieved after dismantling from rotor rim, cleaning and heating.
- IR values of 3 Nos poles are still not achieved and they are currently in process of dismantling, cleaning and heating.
- Heating of Busduct completed after achieving IR value
- No Load Charging of Excitation Transformer continues



PHOTOS OF FLASH FLOOD INCIDENT AT POWER HOUSE, HOJ

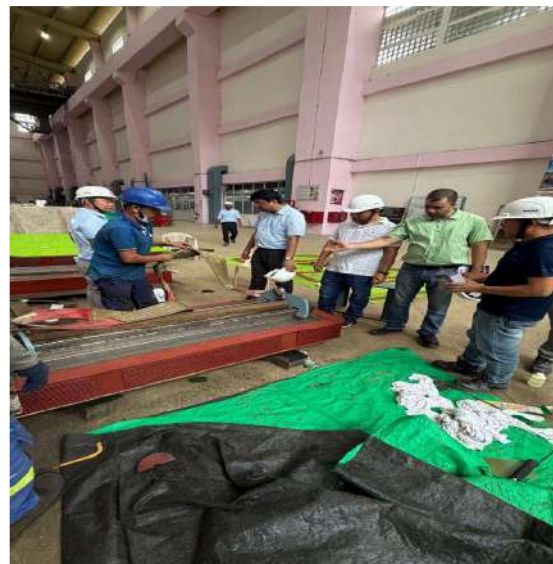
INSPECTION BY BHEL EXPERT



Bottom Bracket



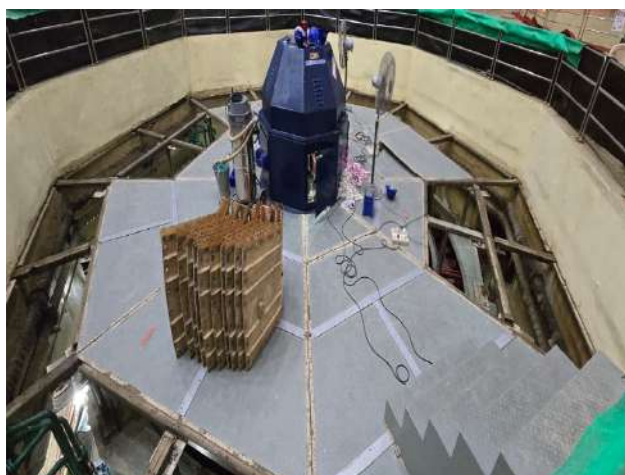
Stator Overhang Portion



Cleaning of Pole Assembly



PHOTOS OF FLASH FLOOD INCIDENT AT POWER HOUSE, HOJ



Removing of Airguide & Chequered Plates



Arrangement of removing of Rotor Pole



Removal of Rotor Pole



Removal of Slip Ring



Removal of Chequered Plates



PHOTOS OF FLASH FLOOD INCIDENT AT POWER HOUSE, HOJ



Cleaning of Stator



Cleaning of Stator



Cleaning of Slip Ring



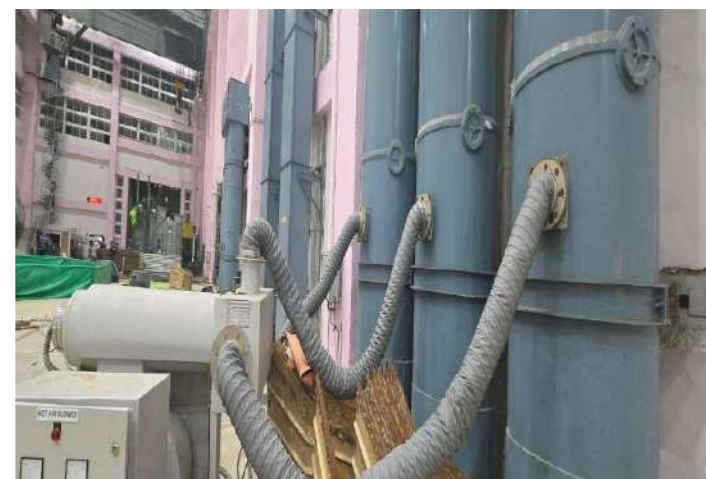
Cleaning of DC Lead



Cleaning of Line Side Busduct



PHOTOS OF FLASH FLOOD INCIDENT AT POWER HOUSE, HOJ



Heating of Bus Duct



Heating arrangement of Pole



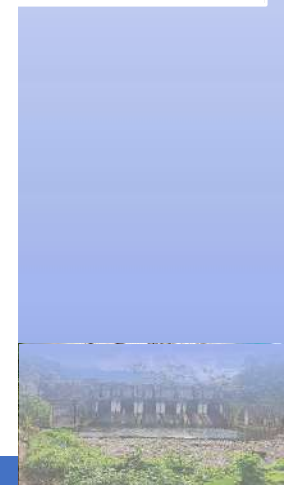
Heating arrangement of Stator Core



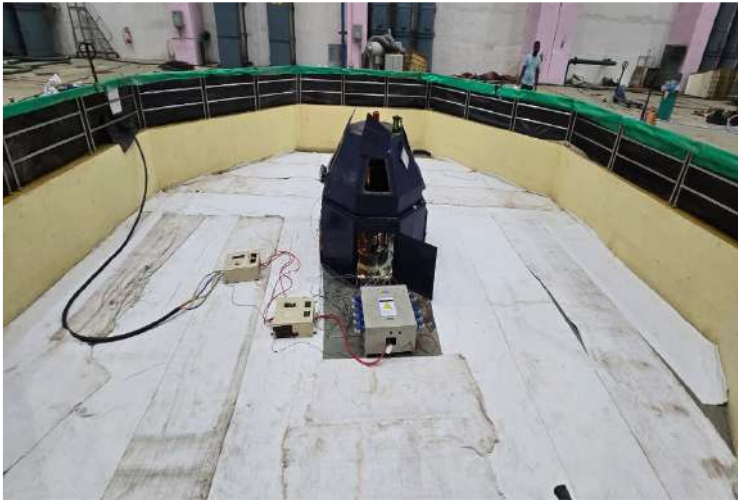
Heating arrangement of Top Bracket



Heating arrangement of Lower Bottom Bracket



PHOTOS OF FLASH FLOOD INCIDENT AT POWER HOUSE, HOJ



Heating of Generator Barrel



Measurement of IR Value of Rotor Pole



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



FLASH FLOOD IMPACT ON TAIL POOL

Sudden Rise in Dikrong River water Level

Heavy Sand, Silt & Debris Deposition in Tail Pool

The Deposited Debris obstructed the Draft Tube (DT) Gate and Cooling Water System

Restoration Work of Tail pool channel became essential for Power House operation

To assess the extent of damage, an experienced diving agency was engaged for underwater inspection

Significant accumulation of muddy water, debris, and silt was observed with an estimated silt deposition of 9000 cumec with the maximum silt height of 7.65 m



Photo of Tail pool channel
Before Flash Flood

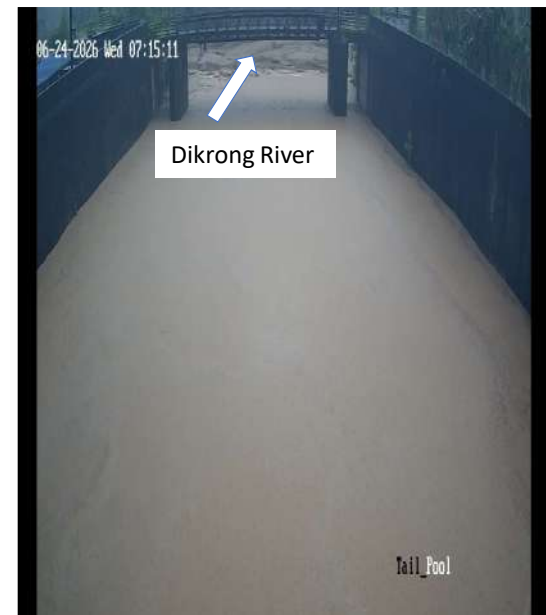
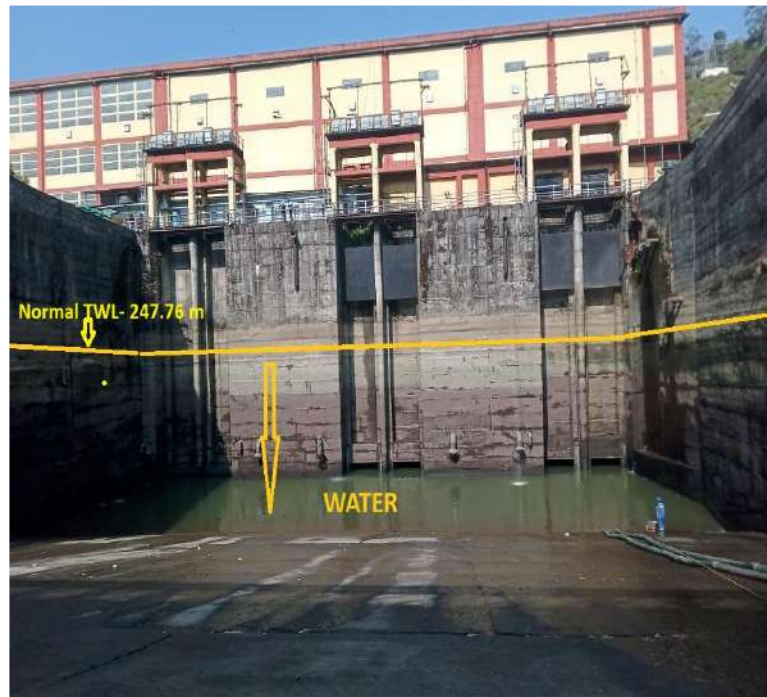


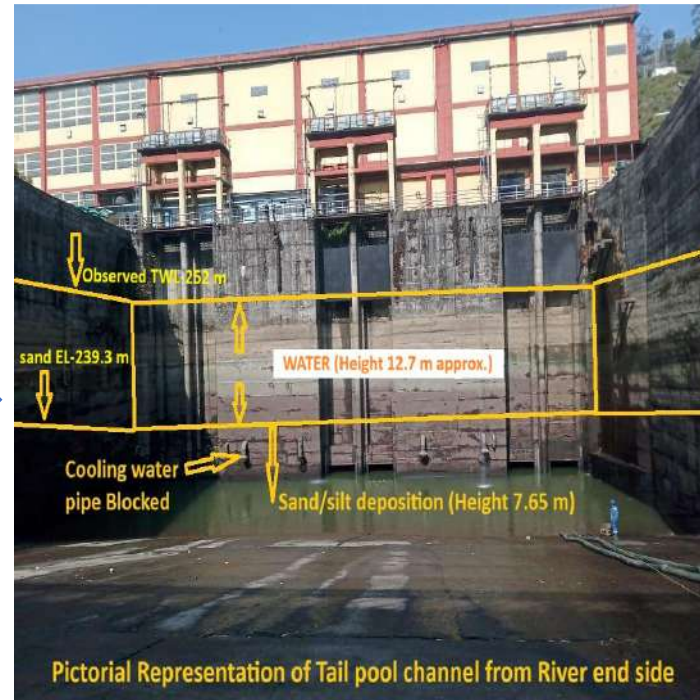
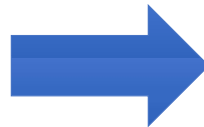
Photo of Tail pool channel
after Flash Flood



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



Pictorial Representation of Tail pool channel
Before Flash Flood



Pictorial Representation of Tail pool channel
After Flash Flood



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



An experienced contractor from Tezpur was engaged on an emergency basis for de-silting through a pumping system.

Construction of Temporary Barrier To Prevent Back flow of Dikrong river

Temporary barrier height 2m and width 3m

Sand bag and Bamboo is used for Temporary barrier



Photo of Temporary Barrier



Photo of Temporary Barrier



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH

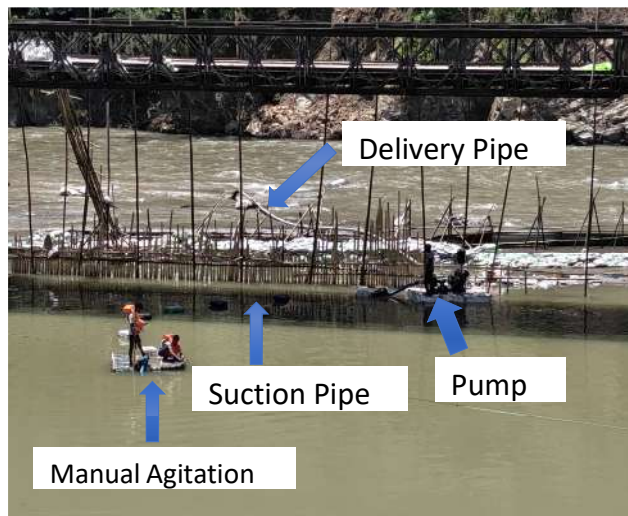


Desilting work using 4 Nos Diesel Powered Centrifugal Pumps of 40 HP and 30 HP

Agitation of sand and water is done manually using Bamboo

Silt Removal work commenced on 05-07-2026

Estimated Silt Removal as of 23.07.2026 is 1500 cumec.



Desilting work view from Tail pool side



Diesel Powered Desilting Pump



Desilting work view from Dikrong River side



Pumping Out Sludge Water

FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH

REASON FOR DELAY IN DE-SILTING WORKS

Cause

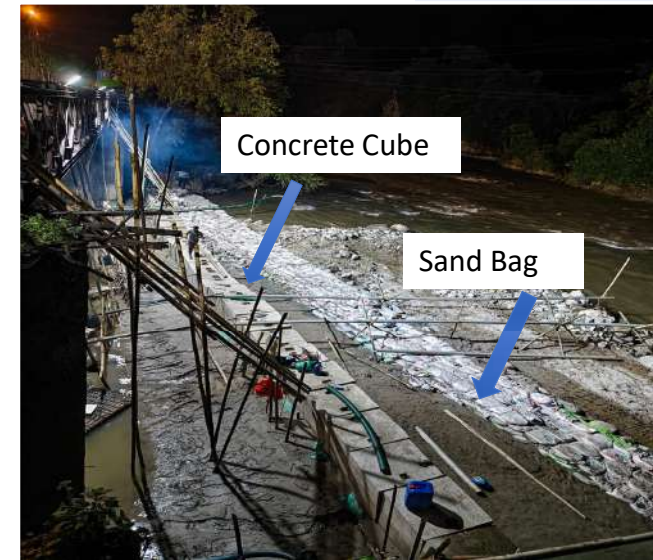
- On 12.07.2026 at 17:00 hrs, heavy rainfall
- River water overtop the temporary barrier
- Backflow into the Tail Pool
- Partial damage to the barrier

Immediate Measures

- Reconstructed Barrier
- Added Concrete Cubes
- Strengthened sand Bag protection
- To expedite and strengthening of De-silting work, An experienced agency from New Delhi is mobilized with specialized equipments for accelerate the silt removal from the Tail Pool.



Temporary Barrier Submerged Due HFL in Dikrong River on 12.07.2026



New Temporary Barrier with concrete cube Constructed



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



Installation automatic dredging system

Installation of 60 HP submersible pump

Parallel operation with diesel powered pump

Dredging work already started in the morning hrs of 24 Jul 2026



Automatic Dredging Equipment



Automatic Dredging/desilting 60 HP Electric Pump

REMOTE CONTROLLED DREDGE
BASINI TECHNOLOGIES PVT LTD

DREDGE MODEL:
DRP60 with Electric
Submersible Pump EL60.
The total dredging capacity
of 450 m³/h

The dam was in full
service during the
dredging operation.



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



Heavy deposition of stones and boulders in Dikrong River

Rise in the riverbed level

Formation of a stone island.

River flow diverted into two channels.

Damage to the shore protection wall and Road

River training works have become essential to restore the river alignment and facilitate future protection measures.



Dikrong River and Damaged Protection wall



Dikrong River with stone island formation



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH

5 Excavators and 1 Long Boom Excavator deployed

Stone island removed using excavators

River channelized to restore the natural flow path

Long boom excavator used for excavation in the river's middle section

River flow diverted away from the shore protection wall through channelization

Channelization created an access route for excavators to reach the tail pool for sand/silt removal



Removal of Stone of Stone island



Channelization of Dikrong River



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH



PRESENT STATUS OF TAILPOOL

Tail Pool

- Desilting work using 4 Nos Diesel Powered Centrifugal Pumps of 40 HP and 30 HP commenced from 05.07.2026 by constructing a temporary barrier to prevent Back flow of Dikrong River
- On 12.07.2026 at about 17:00 hrs, heavy rainfall caused the river water again overtop the temporary barrier, resulting in backflow into the Tail Pool and partial damage to the barrier, thereby affecting the ongoing de-silting operations and deposition of additional silt.
- The work is again resumed on 18.07.2026 after reconstruction of barrier using the concrete block and sand bag.
- Approximately 1500 cumec of silt/sand removed out of the estimated 9000 cumec deposition as of 23.07.2026.
- To expedite and strengthening of De-silting work, an experienced agency from New Delhi is mobilized to deploy specialized equipment for silt removal. Automatic dredging equipment has reached site on 23.07.2026.
- Desilting works using automatic dredging equipment is started in the morning hrs of 24.07.2026, alongside the existing diesel pumps operation.
- River channeling work commenced from 15.07.2026 by deploying 5 Excavators & 1 Long Boom Excavator. 50% of work is completed as of 23.07.2026.
- Tentative date for completion of desilting work is 03.08.2026



FLASH FLOOD INCIDENT AT 3 × 135 MW PANYOR LOWER HYDRO POWER STATION, ARUNACHAL PRADESH

Restoration Schedule



**** Subject to completion of Silt removal (9000 cum) from Tail Pool by 03-08-2026**



THANK YOU



Monthly State Level Resource Adequacy Assessment- August 2026

Methodology adopted for RA Evaluation

Tools Utilized: **Probabilistic Resource Adequacy Suite (PRAS)**

- **INPUTS:**
 - Forecasted demand, RE, Intra State generation and contracts provided by state
 - Generator planned outage considered
 - DAM and RTM purchases not considered
 - 30 different demand scenario considered with an 7% error on the base demand for each state.
 - 30 different scenarios for Solar and RoR hydro generation pattern considered.
 - Forced outages patterns of units are generated for 1000 samples using Monte Carlo method for Thermal and Gas generators.
 - Average last three years of hydro generation profile in July considered for storage type hydro ISGS generators

ARUNACHAL PRADESH

Deterministic Approach RA Table:

Month	Aug-26							
	Time Period	00:00-02:00	02:00-05:00	05:00-08:00	08:00-14:00	14:00-18:00	18:00-21:00	21:00-24:00
Demand (MW)	Peak	120	110	140	145	165	185	160
	Average	113	103	130	144	150	178	140
Availability from various sources(MW)	ISGS-Coal+Gas	72	73	72	71	71	71	71
	ISGS-Hydro	135	125	124	122	137	145	149
	State Gas Generation	0	0	0	0	0	0	0
	State Hydro Generation	18	18	17	16	16	15	15
	State Solar Generation	0	0	0	0	0	0	0
	REMC	0	0	0	0	0	0	0
	LT Contracts	0	0	0	0	0	0	0
	ST Contracts	-32	-32	-32	-32	-32	-32	-32
Total Availability (C)(MW)		193	185	181	178	192	200	203
Peak Surplus(+)/ Deficit(-) (IN MW)		73	75	41	33	27	15	43
Average Surplus(+)/ Deficit(-) (IN MW)		80	82	52	34	42	21	63

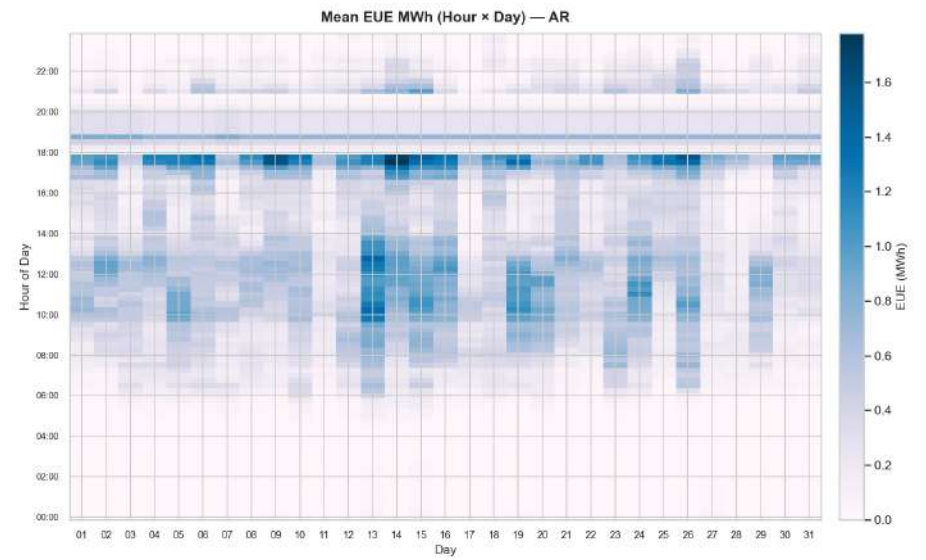
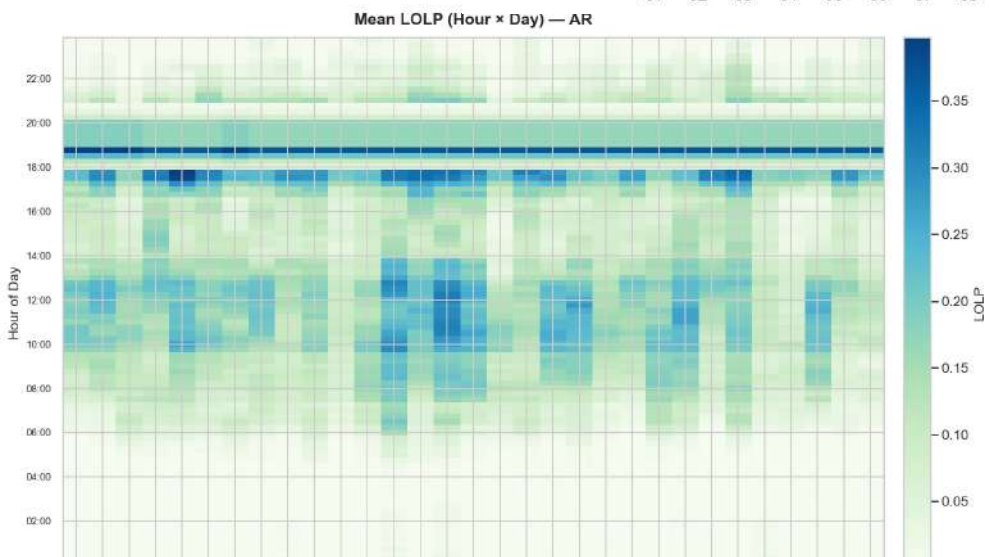
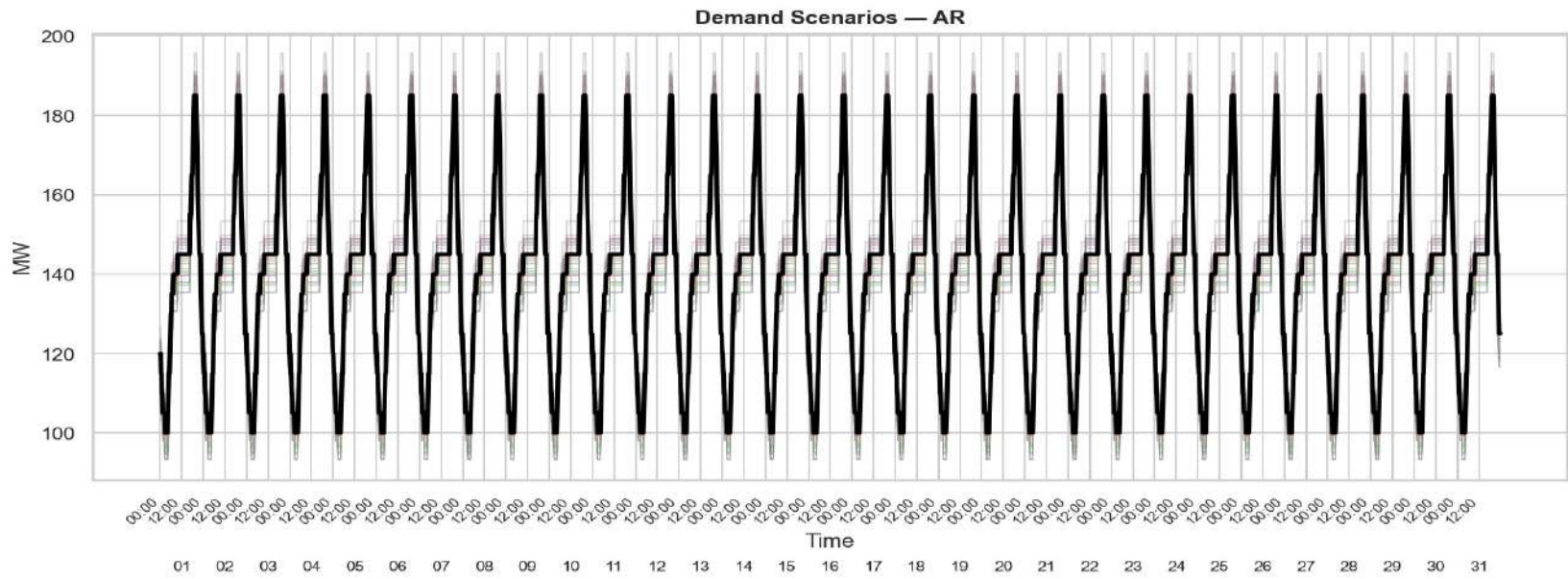
Key Findings : PRAS Results

Mean (LOLE = 263 event-periods/month , ENS: 0.76 MU)

Worst (LOLE = 701 event-periods , ENS : 2.55 MU)

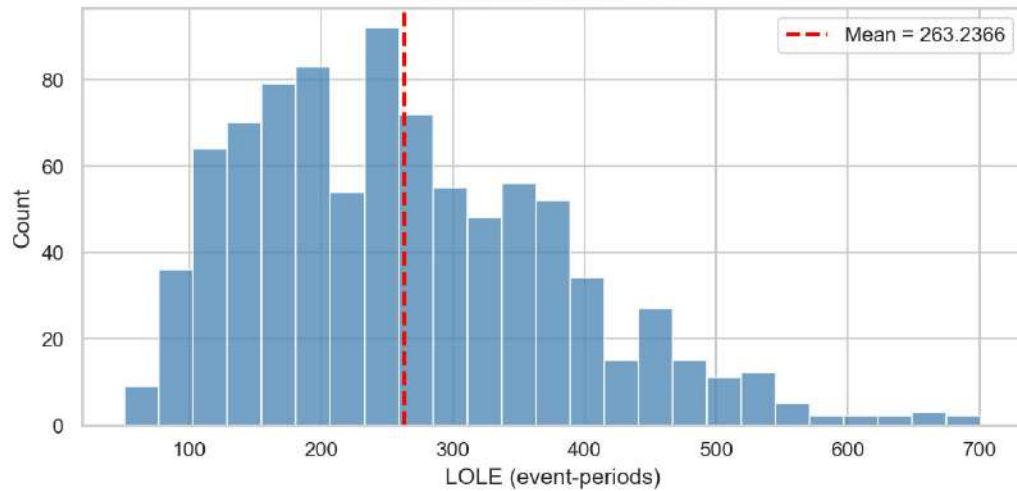
Predominantly in surplus with no shortages.

Arunachal Pradesh

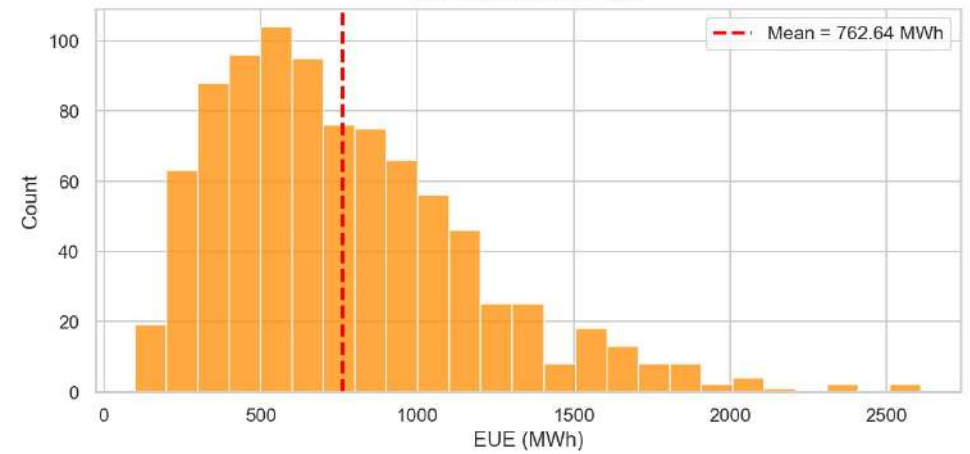


Arunachal Pradesh

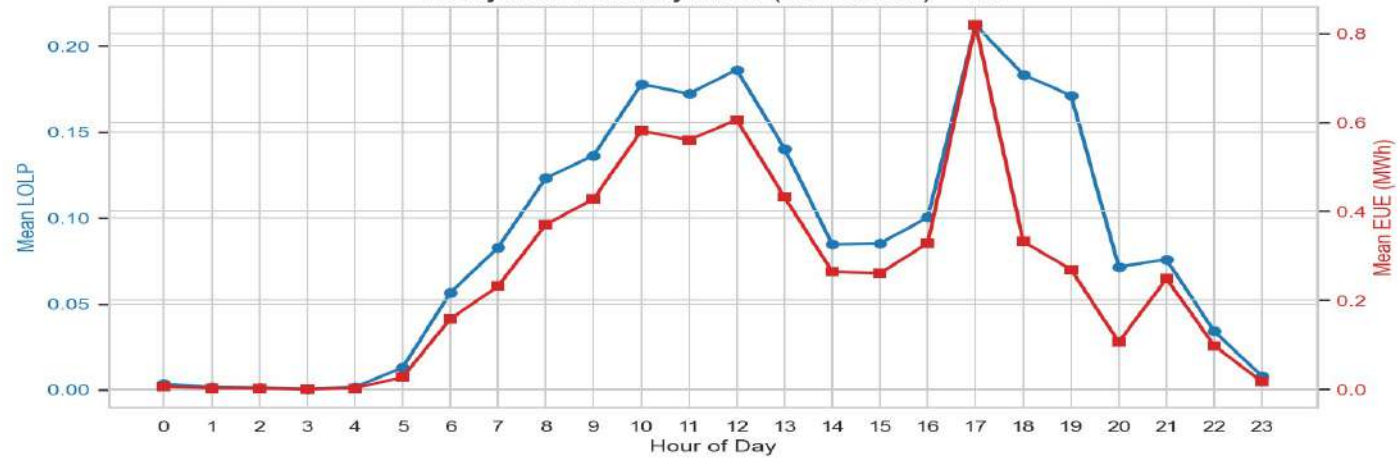
LOLE Distribution — AR



EUE Distribution — AR



Hourly Mean Reliability Profile (LOLP & EUE) — AR



ASSAM

Deterministic Approach RA Table:

Month	Aug-26							
	Time Period	00:00-02:00	02:00-05:00	05:00-08:00	08:00-14:00	14:00-18:00	18:00-21:00	21:00-24:00
Demand (MW)	Peak	2567	2193	1808	2308	2609	2788	2733
	Average	2429	2033	1744	2045	2364	2728	2605
Availability from various sources(MW)	ISGS-Coal+Gas	1122	1135	1122	1112	1112	1112	1112
	ISGS-Hydro	607	575	562	537	603	626	634
	State Gas Generation	202	202	202	202	202	202	202
	State Hydro Generation	145	145	145	145	145	145	145
	State Solar Generation	0	0	34	158	69	0	0
	REMC	51	52	48	72	83	83	57
	LT Contracts	252	252	260	342	283	253	252
	ST Contracts	440	440	440	440	440	440	440
Total Availability (C)(MW)		2819	2802	2813	3008	2937	2861	2842
Peak Surplus(+)/ Deficit(-) (IN MW)		252	609	1005	700	328	73	109
Average Surplus(+)/ Deficit(-) (IN MW)		390	768	1069	964	573	133	237

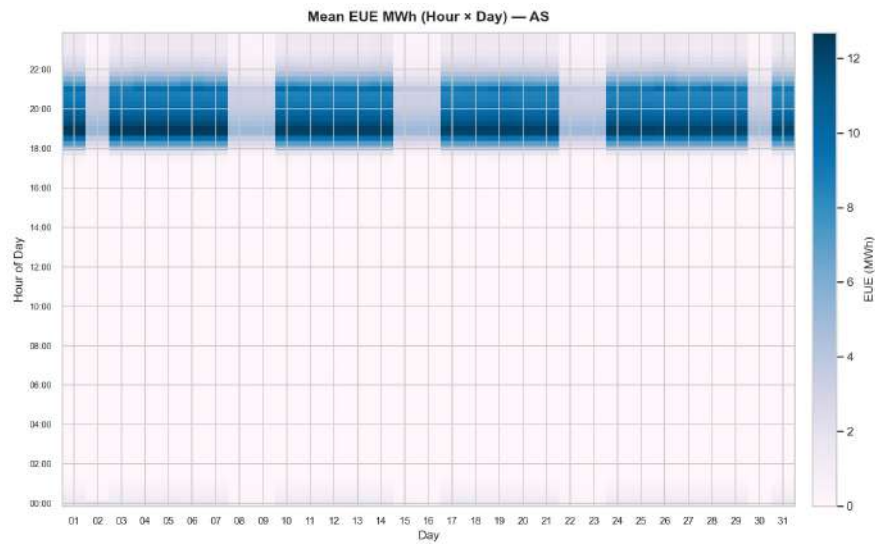
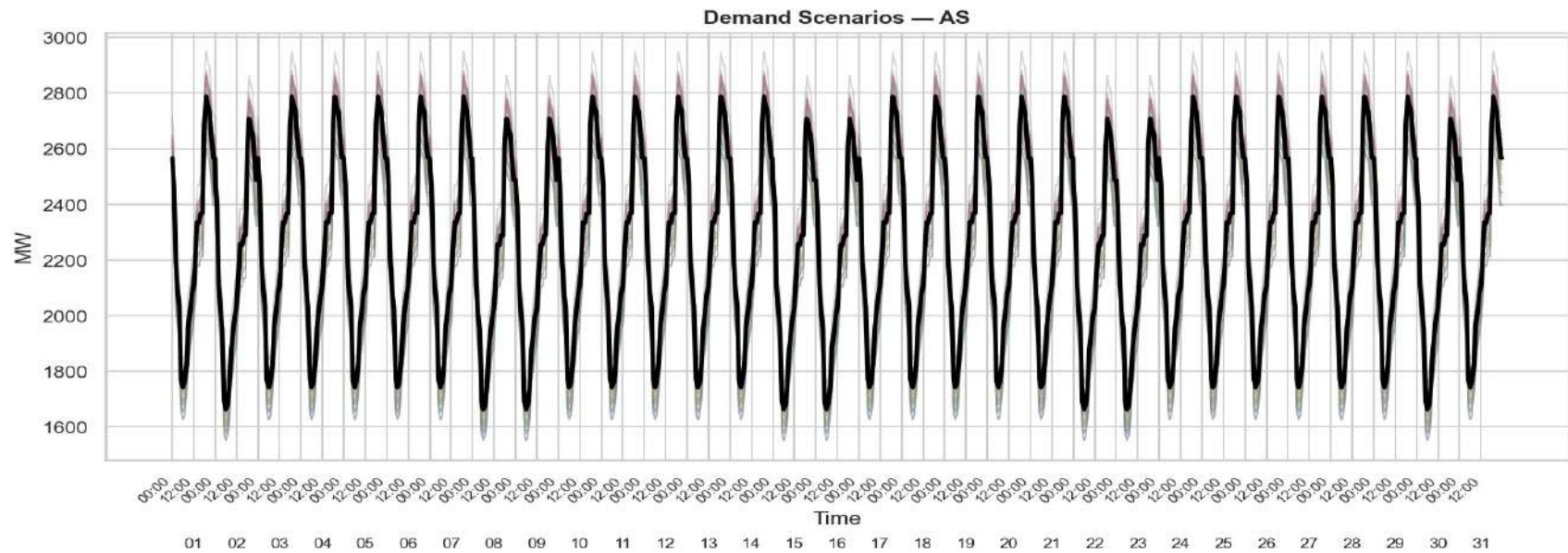
Key Findings : PRAS Results

Mean (LOLE = 194 event-periods, ENS: 4.2 MU)

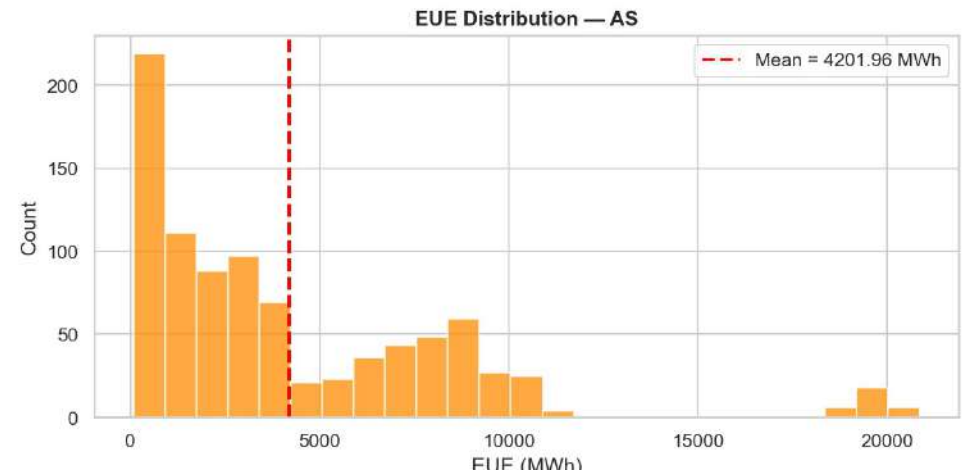
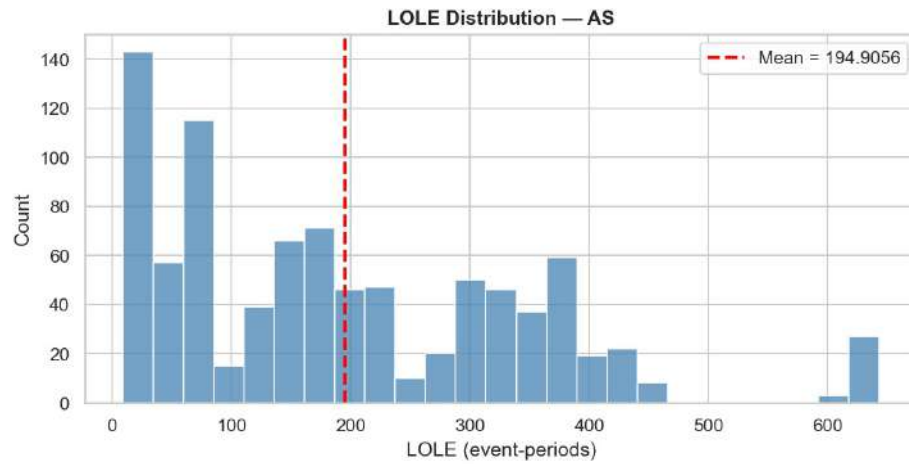
Worst (LOLE = 643 event-periods, ENS : 20.8 MU)

Expected to remain in surplus. Risk during non solar hours in case of any forced outage,

Assam



Assam



MANIPUR

Deterministic Approach RA Table:

Month	Aug-26							
	Time Period	00:00-02:00	02:00-05:00	05:00-08:00	08:00-14:00	14:00-18:00	18:00-21:00	21:00-24:00
Demand (MW)	Peak	109	121	210	200	210	252	164
	Average	104	102	185	168	177	219	136
Availability from various sources(MW)	ISGS-Coal+Gas	109	112	109	107	107	107	107
	ISGS-Hydro	84	79	77	74	87	98	99
	State Gas Generation	0	0	0	0	0	0	0
	State Hydro Generation	0	0	0	0	0	0	0
	State Solar Generation	0	0	0	0	0	0	0
	REMC	0	0	0	0	0	0	0
	LT Contracts	0	0	0	0	0	0	0
	ST Contracts	-63	-48	-35	-35	-35	-48	-63
Total Availability (C)(MW)		130	143	151	146	159	157	143
Peak Surplus(+)/ Deficit(-) (IN MW)		21	22	-59	-54	-51	-95	-20
Average Surplus(+)/ Deficit(-) (IN MW)		26	41	-34	-22	-17	-62	7

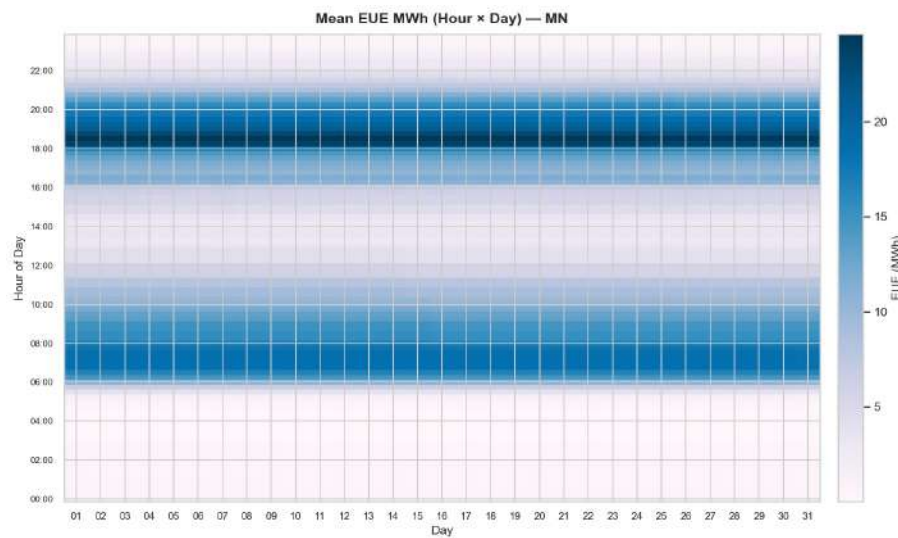
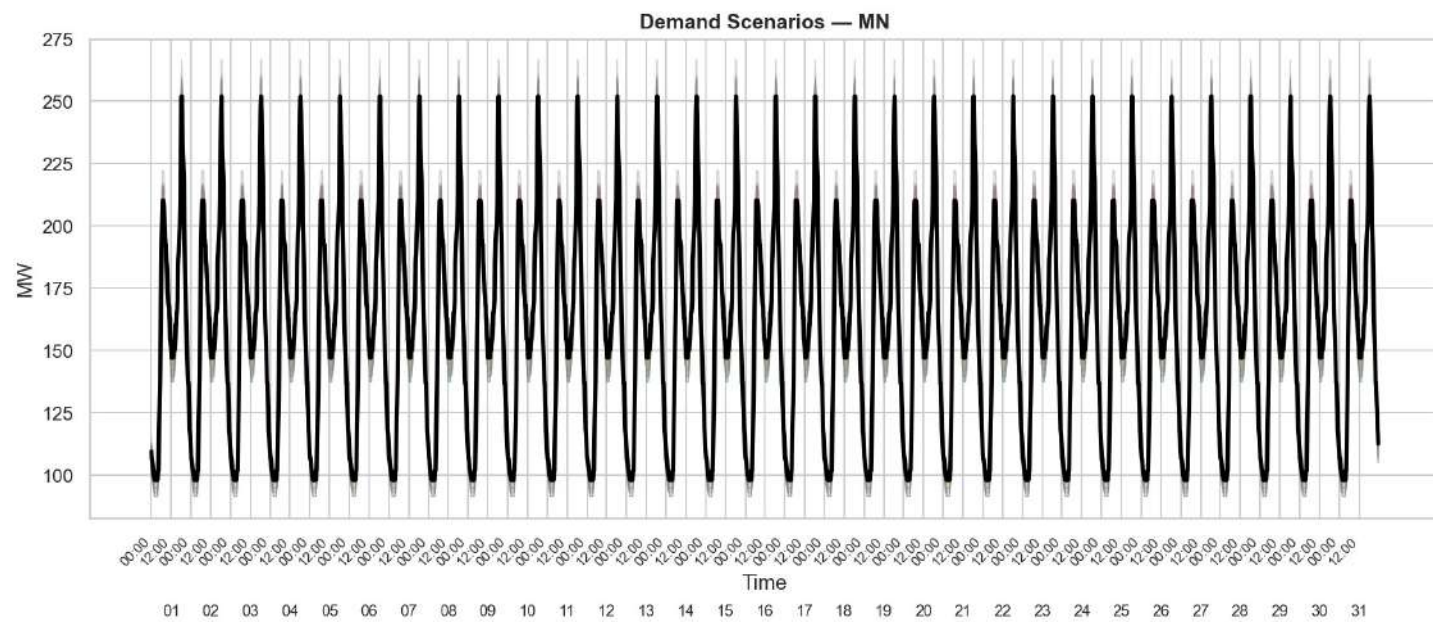
Key Findings : PRAS Results

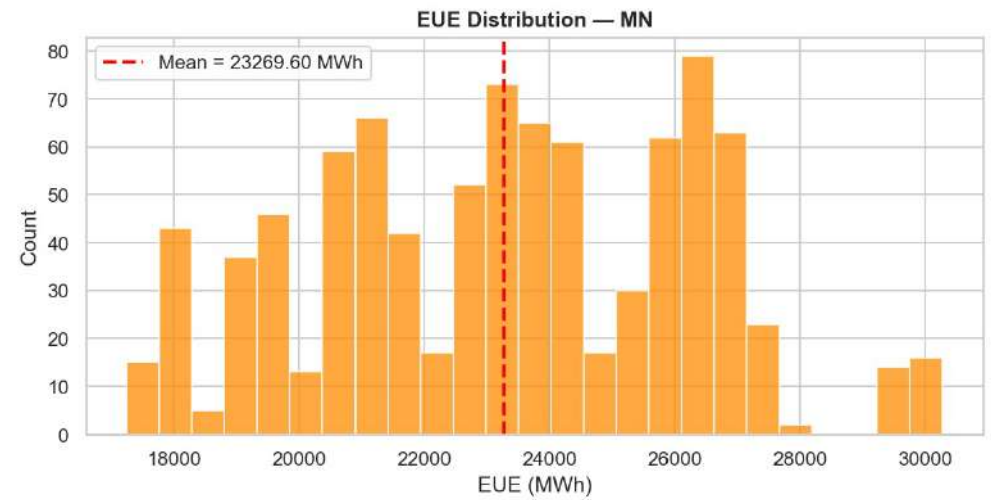
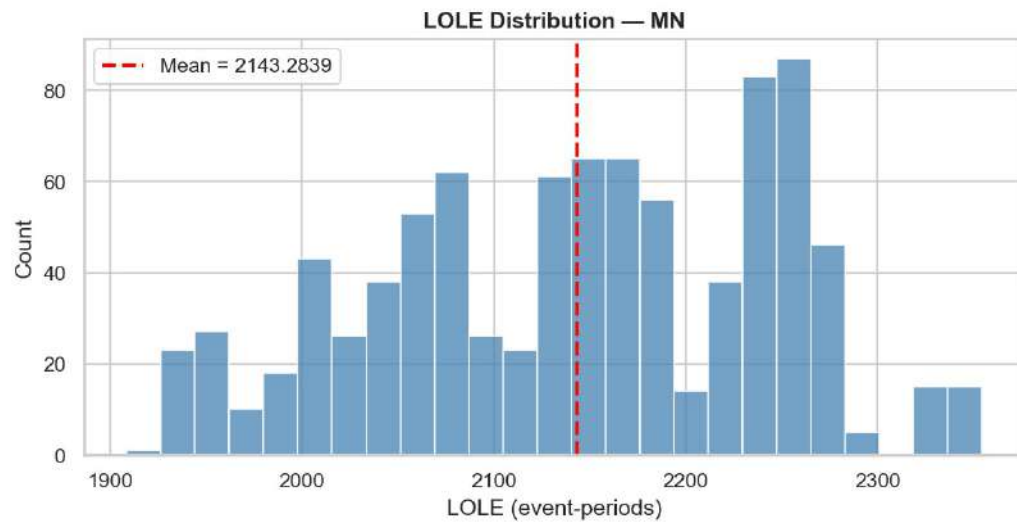
Mean (LOLE = 2143 event-periods, ENS: 23.26 MU)

Worst (LOLE = 2354 event-periods, ENS : 30.27 MU)

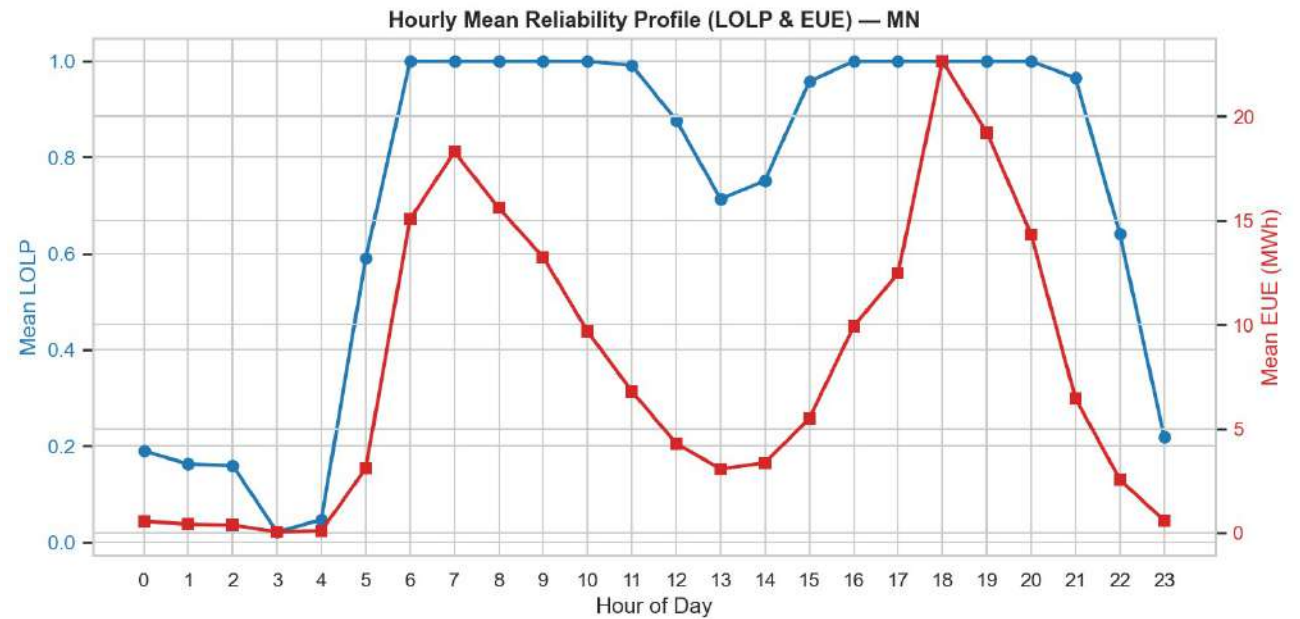
Expected major shortages during solar hours and evening peak

MANIPUR





MANIPUR



MEGHALAYA

Deterministic Approach RA Table:

Month	Aug-26							
	Time Period	00:00-02:00	02:00-05:00	05:00-08:00	08:00-14:00	14:00-18:00	18:00-21:00	21:00-24:00
Demand (MW)	Peak	227	223	287	276	305	371	330
	Average	218	211	267	240	257	349	288
Availability from various sources(MW)	ISGS-Coal+Gas	167	172	167	164	164	164	164
	ISGS-Hydro	115	105	100	95	118	126	128
	State Gas Generation	0	0	0	0	0	0	0
	State Hydro Generation	186	174	203	79	53	218	189
	State Solar Generation	0	0	0	0	0	0	0
	REMC	0	0	0	0	0	0	0
	LT Contracts	0	0	0	0	0	0	0
	ST Contracts	-53	-53	-49	0	-13	-53	-53
Total Availability (C)(MW)		415	397	422	338	322	455	429
Peak Surplus(+)/ Deficit(-) (IN MW)		188	174	135	62	17	85	99
Average Surplus(+)/ Deficit(-) (IN MW)		197	186	155	98	65	106	141

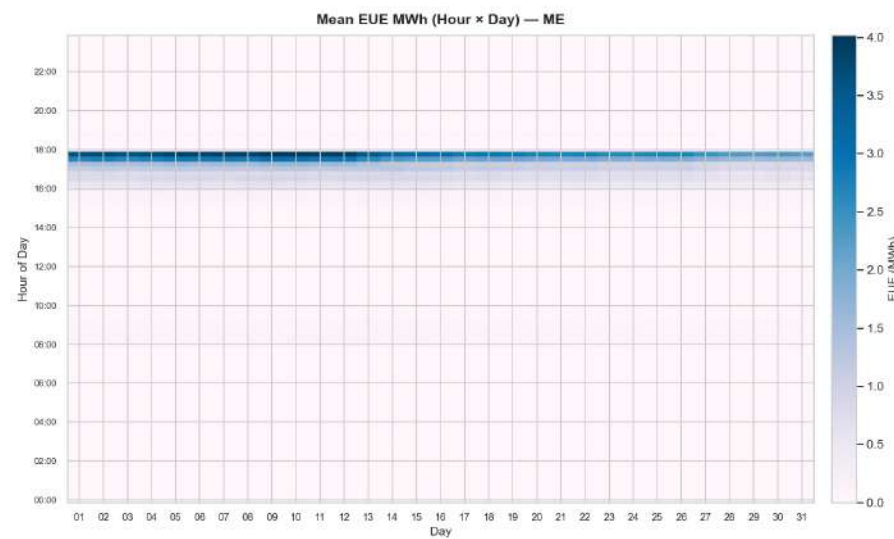
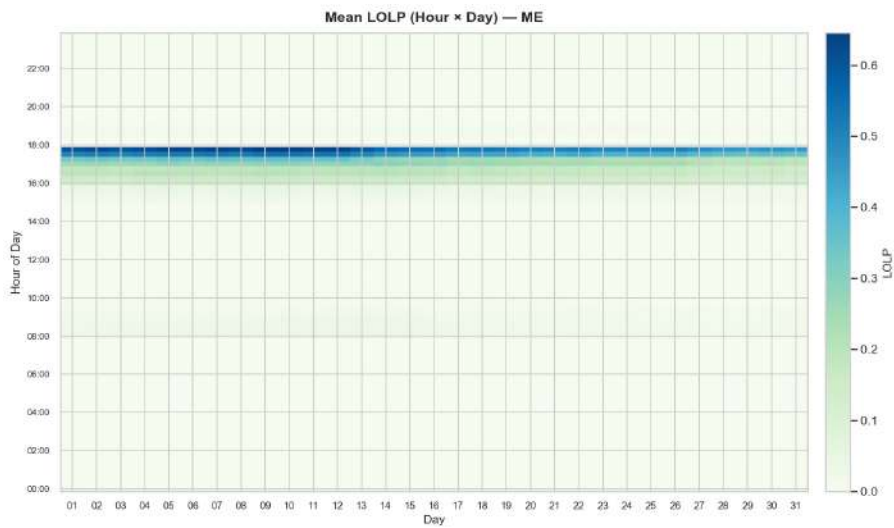
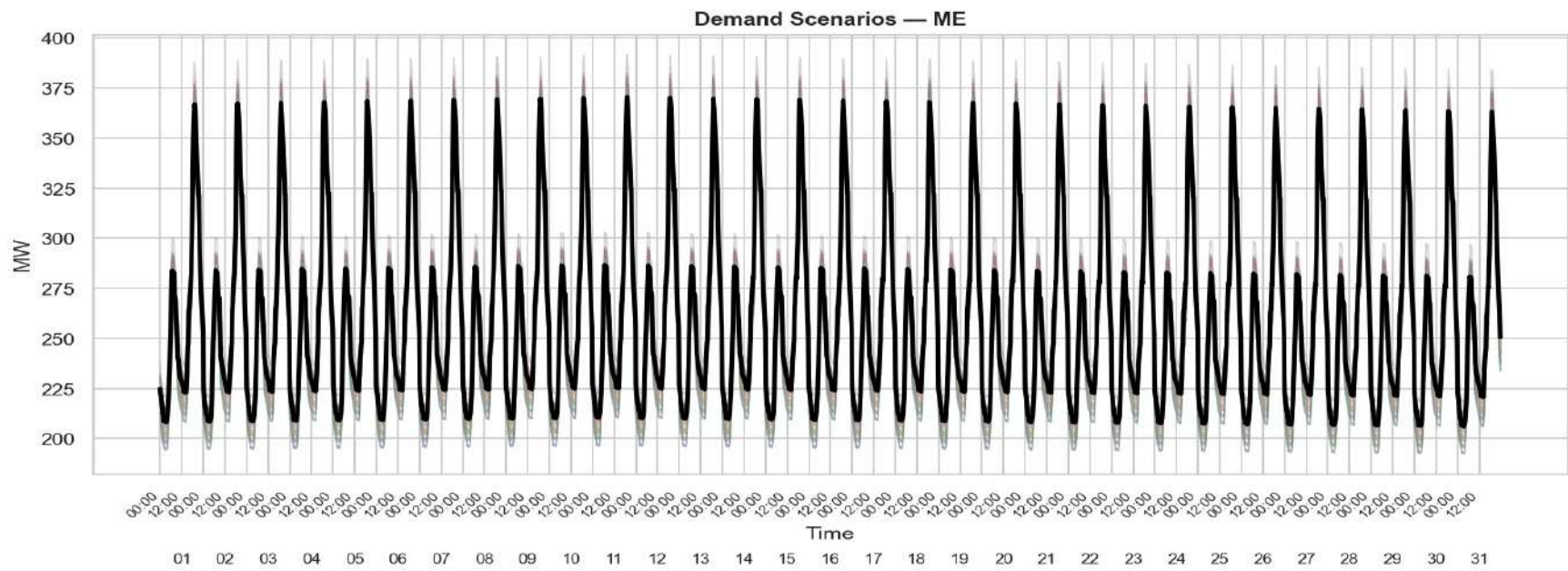
Key Findings : PRAS Results

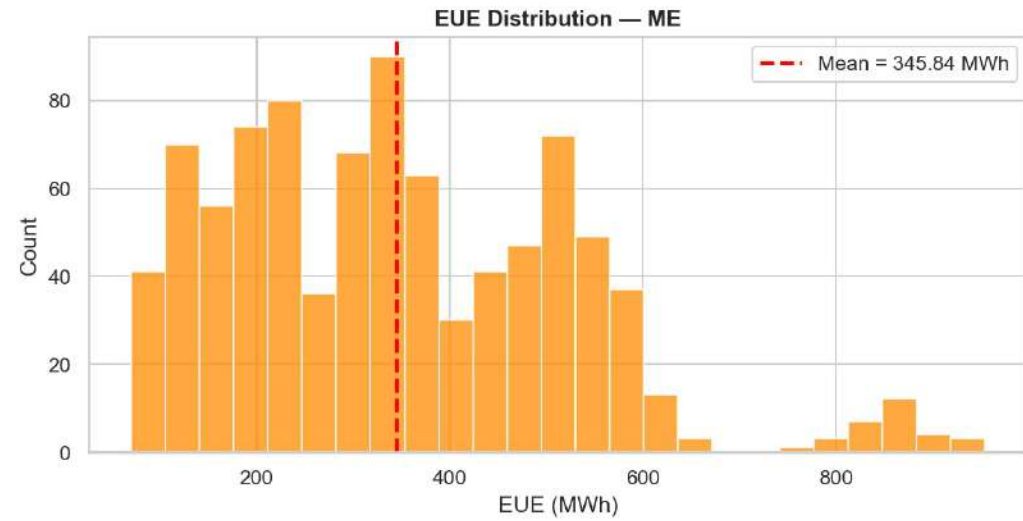
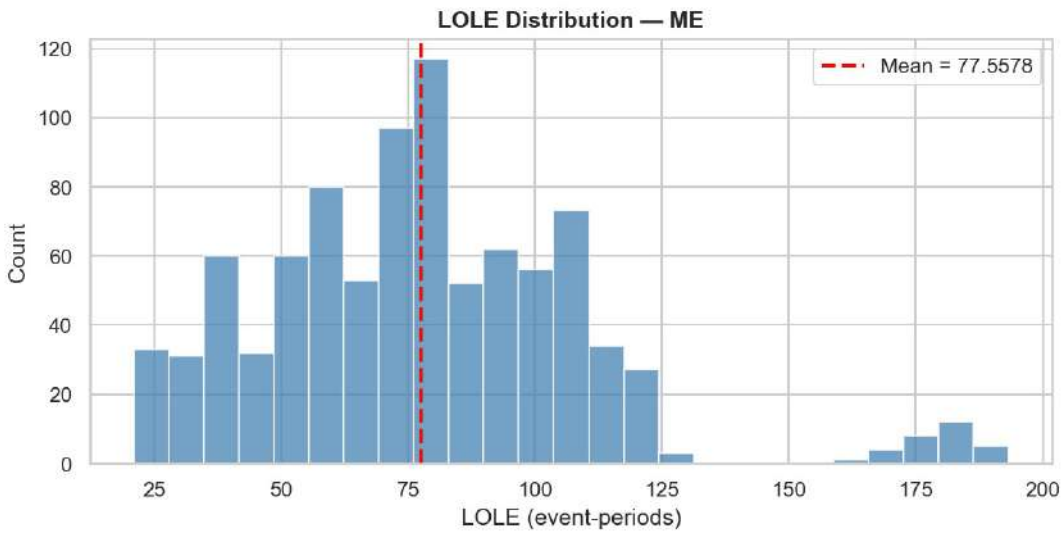
Mean (LOLE = 77 event-periods, ENS: 0.35 MU)

Worst (LOLE = 193 event-periods, ENS : 0.95 MU)

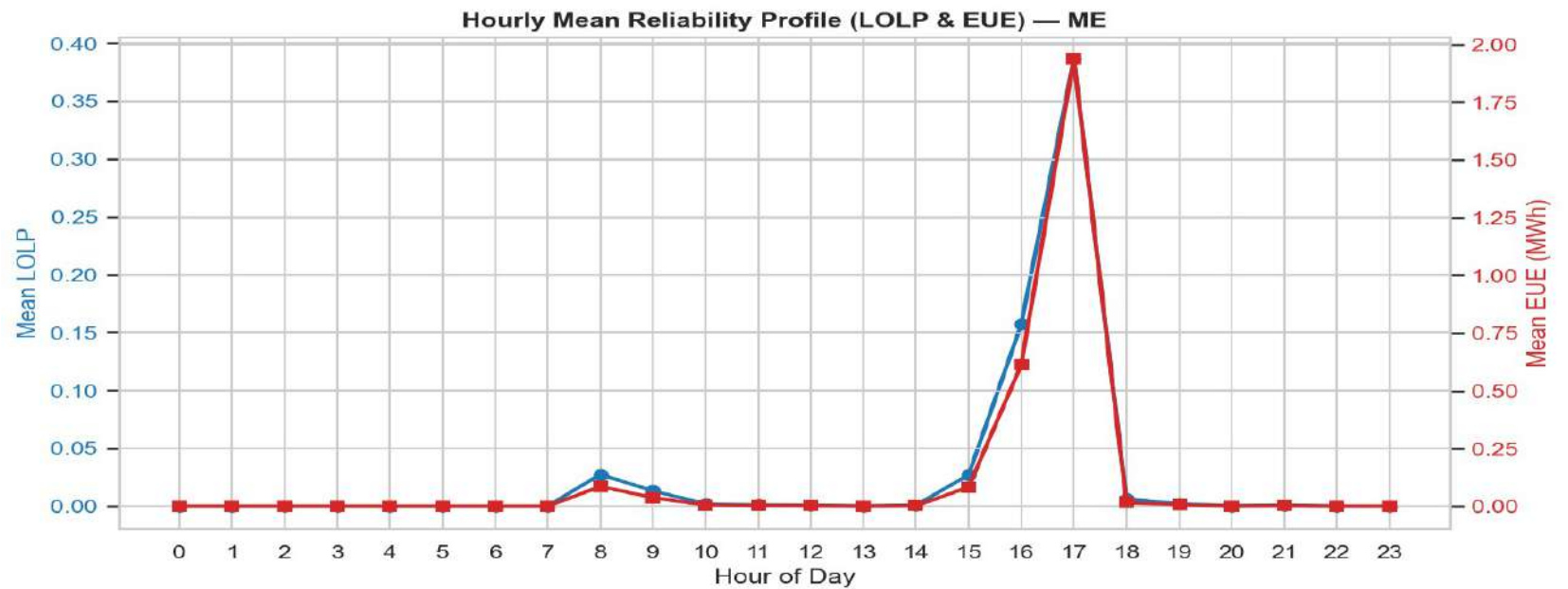
Expected to remain in surplus.

MEGHALAY
A





MEGHALAYA



MIZORAM

Deterministic Approach RA Table:

Month	Aug-26							
	Time Period	00:00-02:00	02:00-05:00	05:00-08:00	08:00-14:00	14:00-18:00	18:00-21:00	21:00-24:00
Demand (MW)	Peak	74	65	120	120	151	153	131
	Average	66	57	90	95	125	129	93
Availability from various sources(MW)	ISGS-Coal+Gas	86	88	86	84	84	84	84
	ISGS-Hydro	45	42	41	39	47	50	51
	State Gas Generation	0	0	0	0	0	0	0
	State Hydro Generation	51	51	51	53	54	57	53
	State Solar Generation	0	0	3	16	5	0	0
	REMC	0	0	0	0	0	0	0
	LT Contracts	0	0	0	0	0	0	0
	ST Contracts	0	0	0	0	0	0	0
Total Availability (C)(MW)		182	181	181	192	189	191	187
Peak Surplus(+)/ Deficit(-) (IN MW)		108	116	61	72	38	38	56
Average Surplus(+)/ Deficit(-) (IN MW)		117	124	91	97	64	62	95

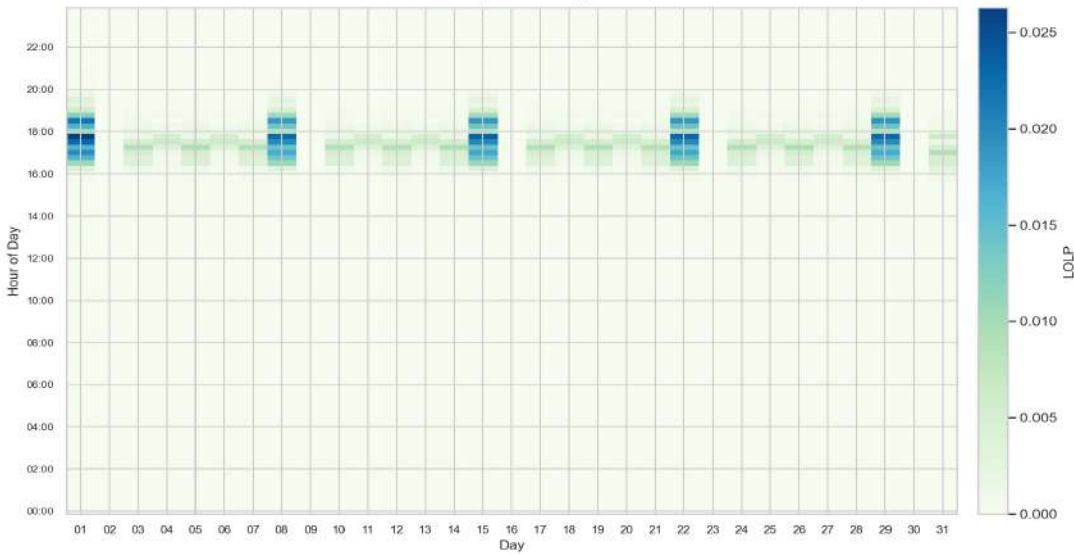
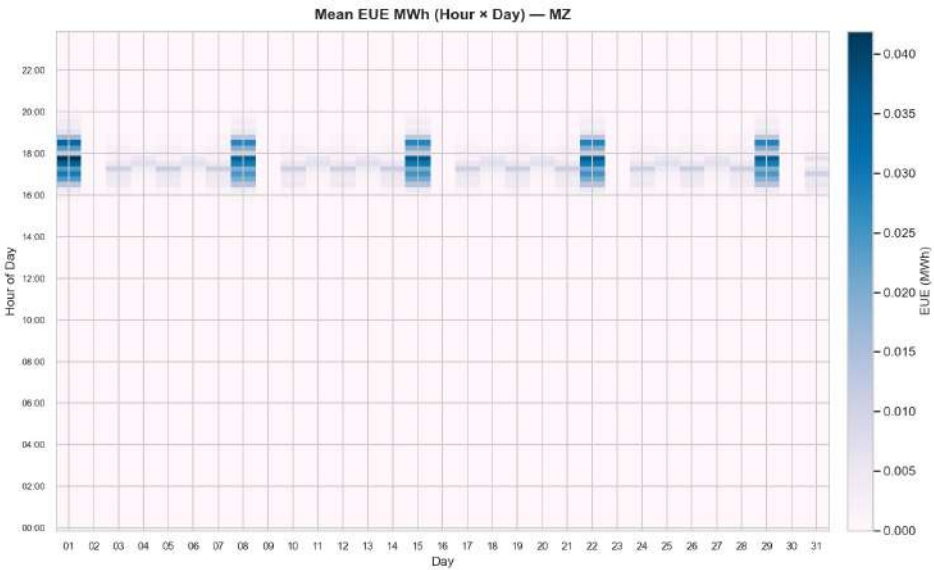
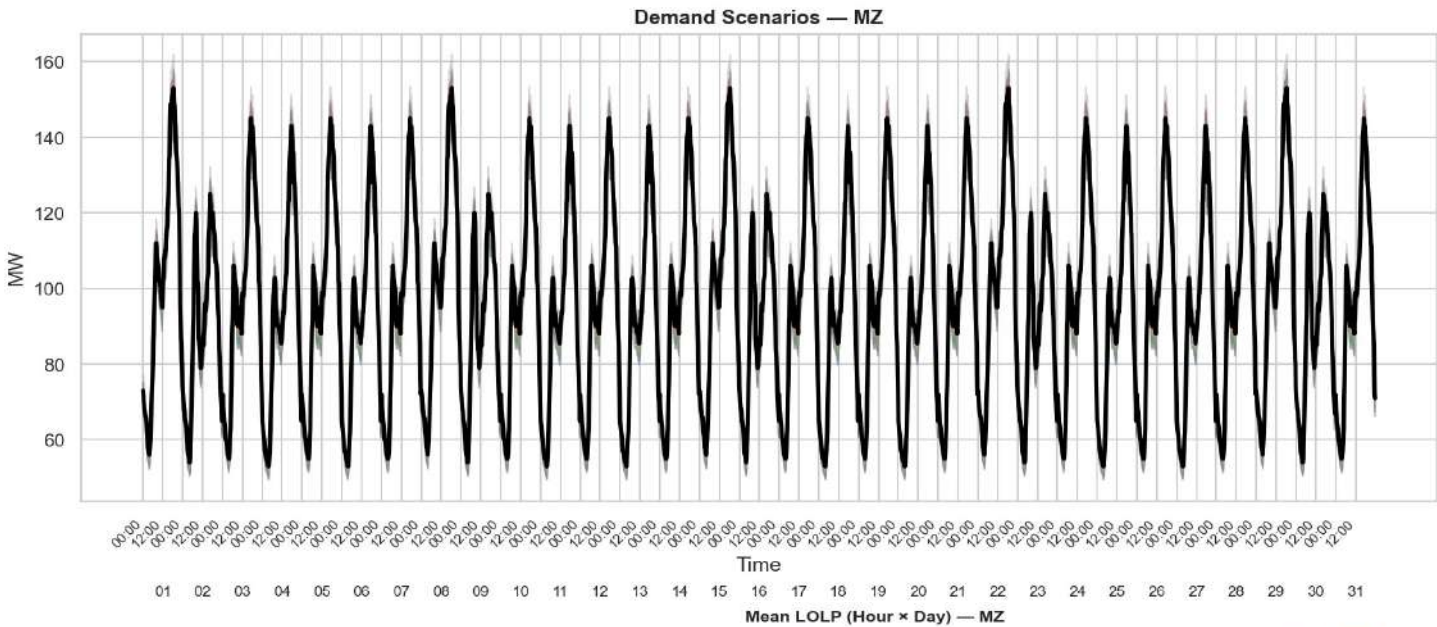
Key Findings : PRAS Results

Mean (LOLE = 1 event-periods, ENS: 0 MU)

Worst (LOLE = 9 event-periods, ENS : 0.013 MU)

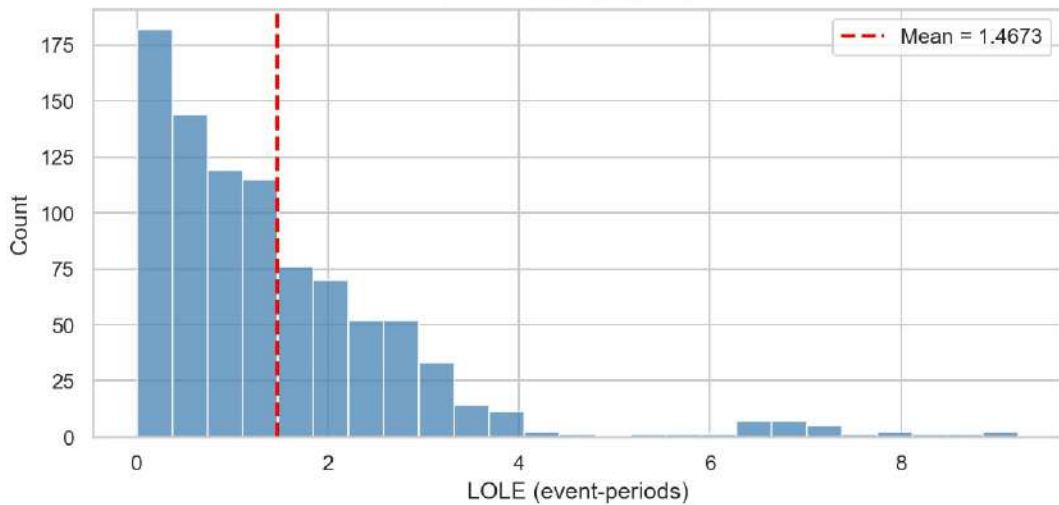
Expected to remain in surplus.

MIZORAM

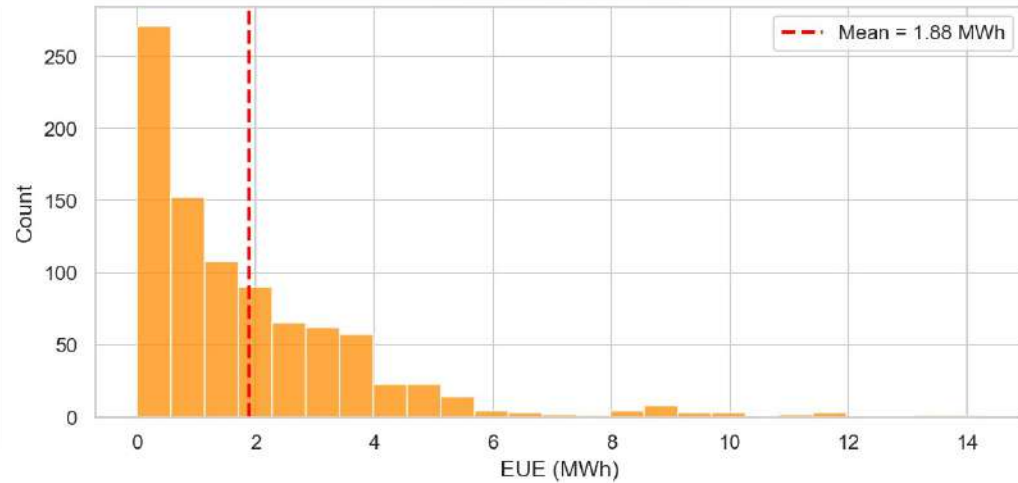


MIZORAM

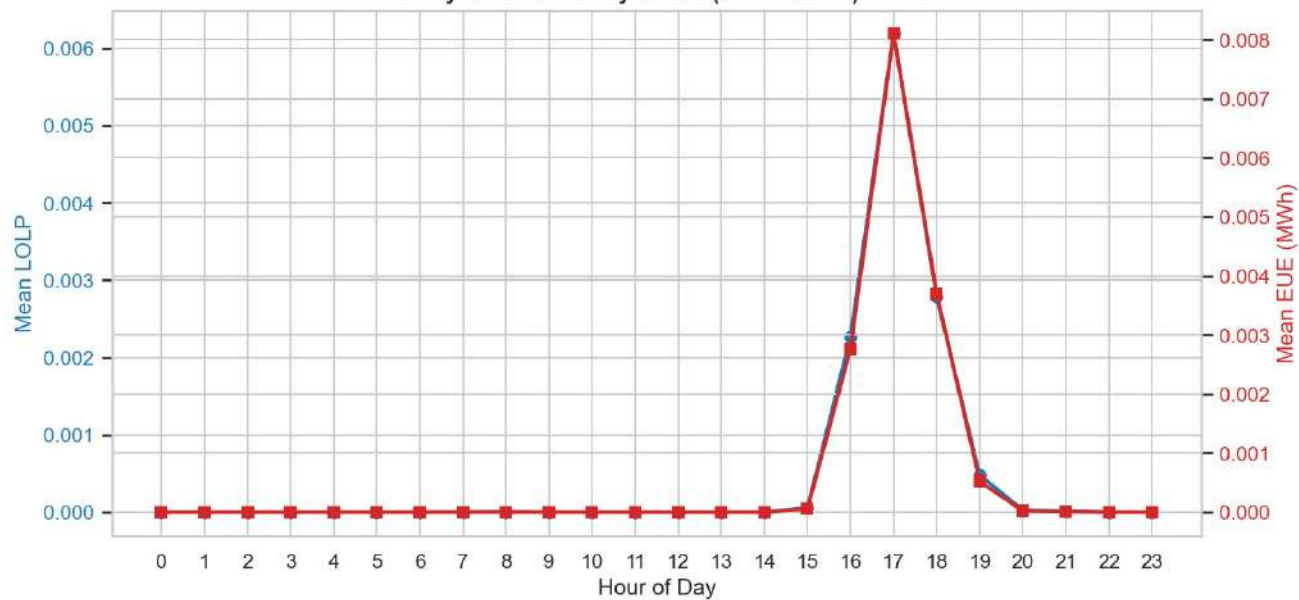
LOLE Distribution — MZ



EUE Distribution — MZ



Hourly Mean Reliability Profile (LOLP & EUE) — MZ



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Deterministic Approach RA Table:

Month	Aug-26							
	Time Period	00:00-02:00	02:00-05:00	05:00-08:00	08:00-14:00	14:00-18:00	18:00-21:00	21:00-24:00
Demand (MW)	Peak	130	118	190	163	198	200	170
	Average	108	102	160	132	175	186	133
Availability from various sources(MW)	ISGS-Coal+Gas	99	102	99	97	97	97	97
	ISGS-Hydro	63	59	57	56	64	68	69
	State Gas Generation	0	0	0	0	0	0	0
	State Hydro Generation	18	18	18	18	18	18	18
	State Solar Generation	0	0	0	0	0	0	0
	REMC	0	0	0	0	0	0	0
	LT Contracts	0	0	0	0	0	0	0
	ST Contracts	0	0	0	0	0	0	0
Total Availability (C)(MW)		180	179	174	170	179	183	184
Peak Surplus(+)/ Deficit(-) (IN MW)		50	61	-16	7	-19	-17	14
Average Surplus(+)/ Deficit(-) (IN MW)		72	77	15	39	4	-4	51

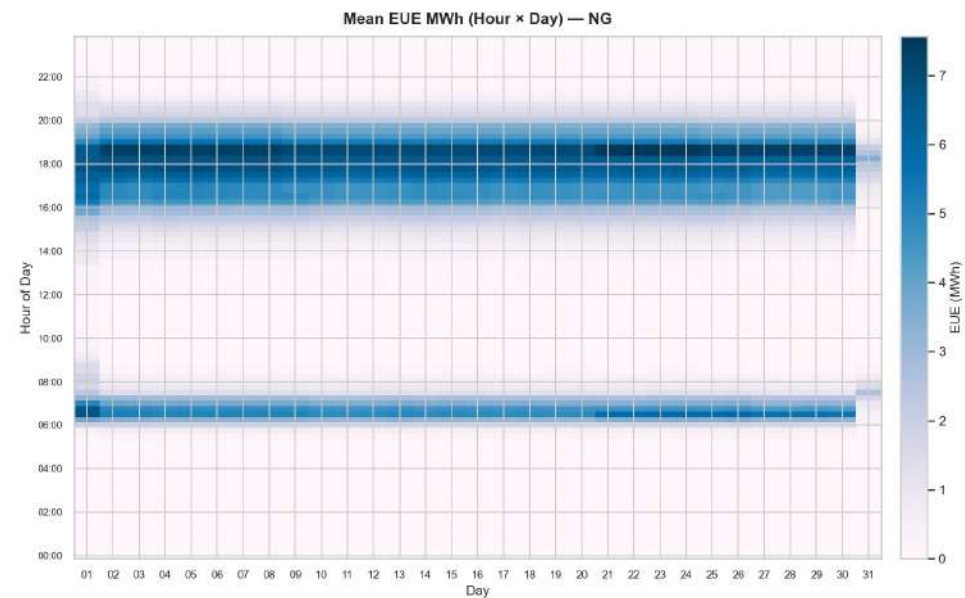
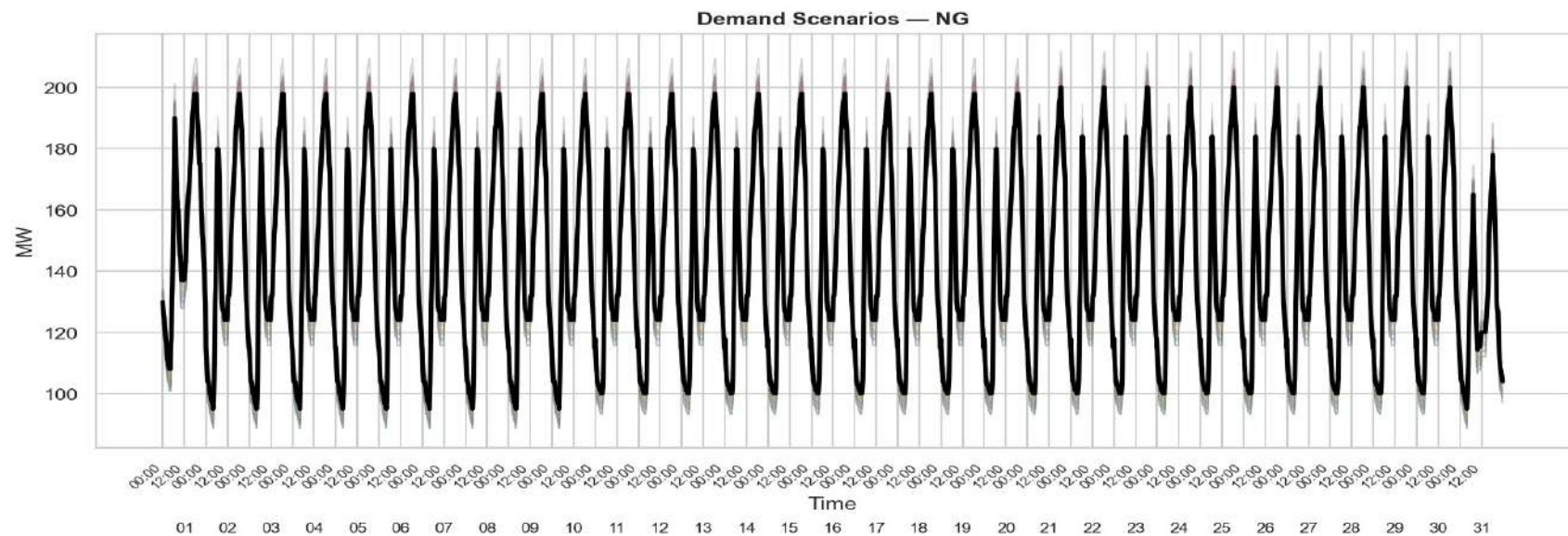
Key Findings : PRAS Results

Mean (LOLE = 847 event-periods, ENS: 3.85 MU)

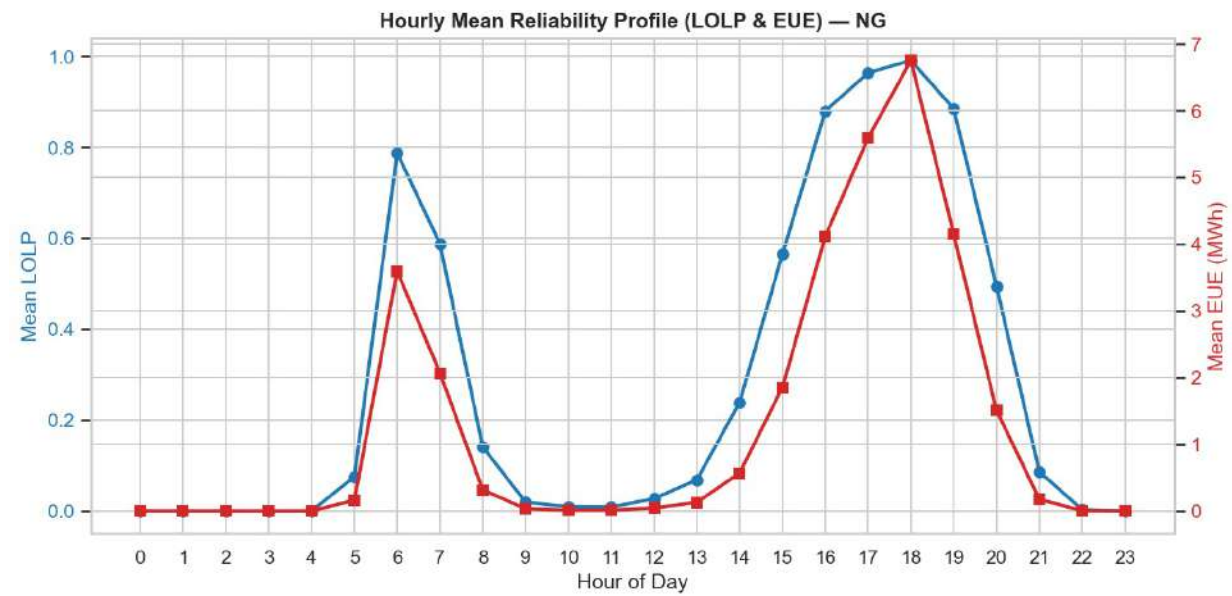
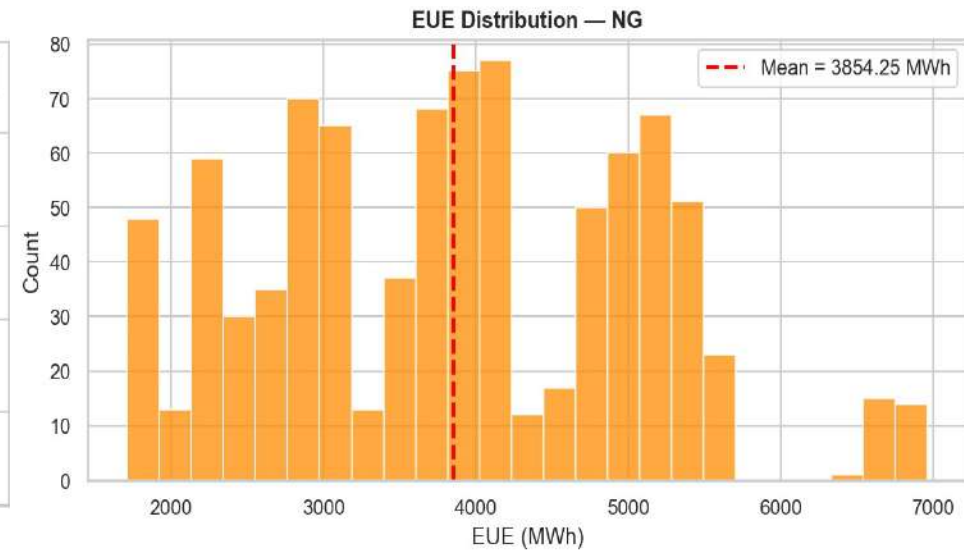
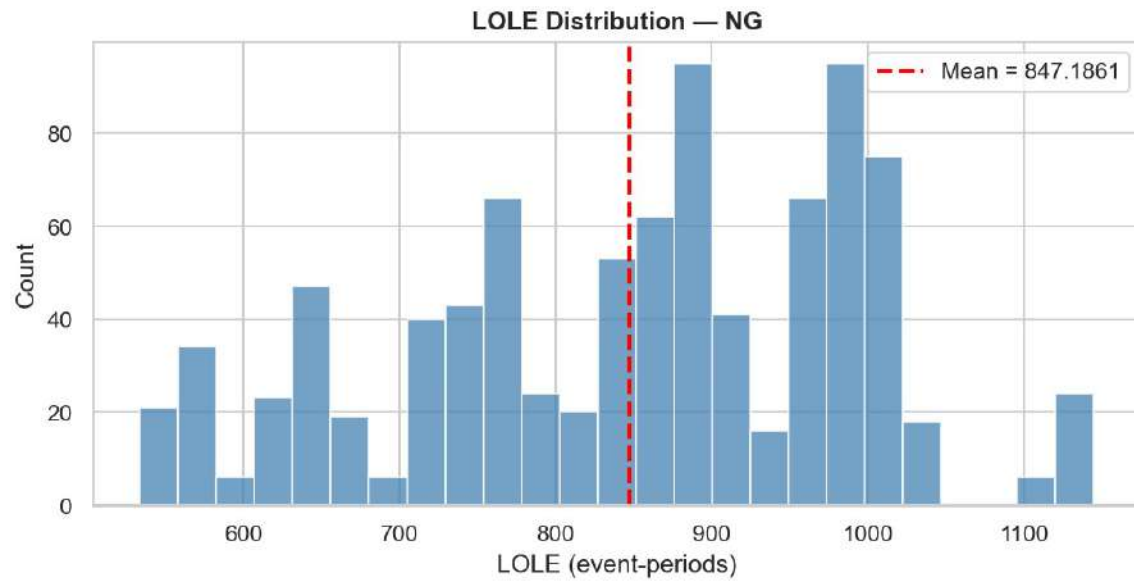
Worst (LOLE = 1144 event-periods, ENS : 6.96 MU)

Shortages during morning peak ,afternoon hours (1400 hrs to 1800 hrs) and evening peak.

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Deterministic Approach RA Table:

Month	Aug-26							
	Time Period	00:00-02:00	02:00-05:00	05:00-08:00	08:00-14:00	14:00-18:00	18:00-21:00	21:00-24:00
Demand (MW)	Peak	488	453	434	472	473	520	517
	Average	448	408	385	428	436	488	485
Availability from various sources(MW)	ISGS-Coal+Gas	313	323	313	305	305	305	305
	ISGS-Hydro	55	50	49	47	57	63	64
	State Gas Generation	61	61	61	61	61	61	61
	State Hydro Generation	0	0	0	0	0	0	0
	State Solar Generation	0	0	2	3	1	0	0
	REMC	0	0	9	47	46	4	0
	LT Contracts	0	0	0	0	0	0	0
	ST Contracts	72	72	60	10	8	20	51
Total Availability (C)(MW)		501	507	493	473	476	452	481
Peak Surplus(+)/ Deficit(-) (IN MW)		13	54	59	1	3	-68	-36
Average Surplus(+)/ Deficit(-) (IN MW)		52	98	108	45	40	-36	-4

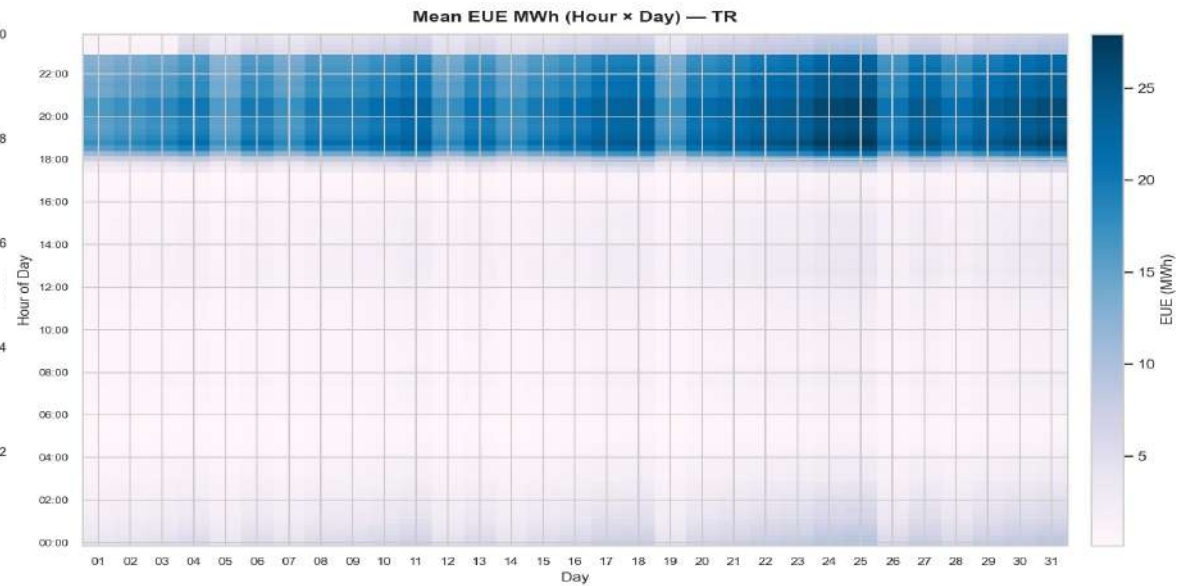
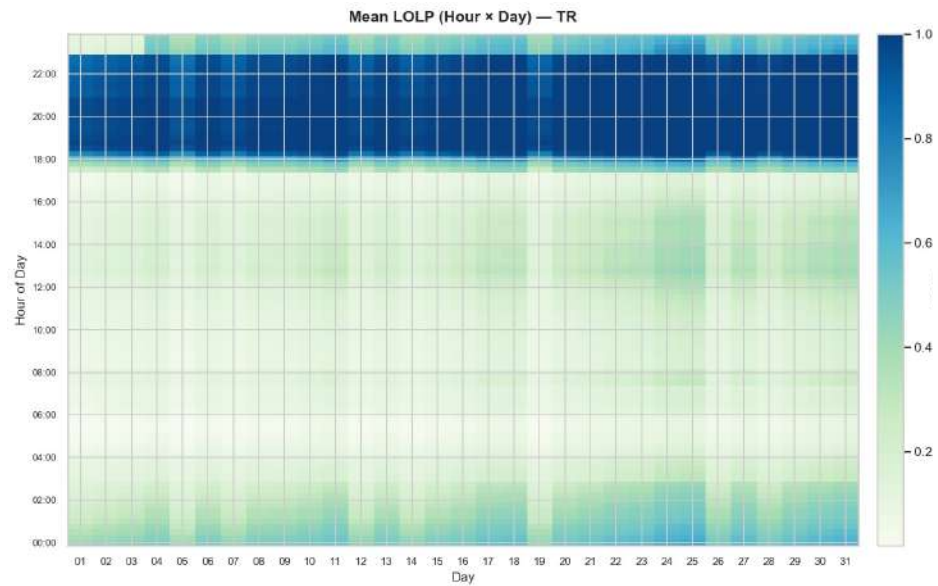
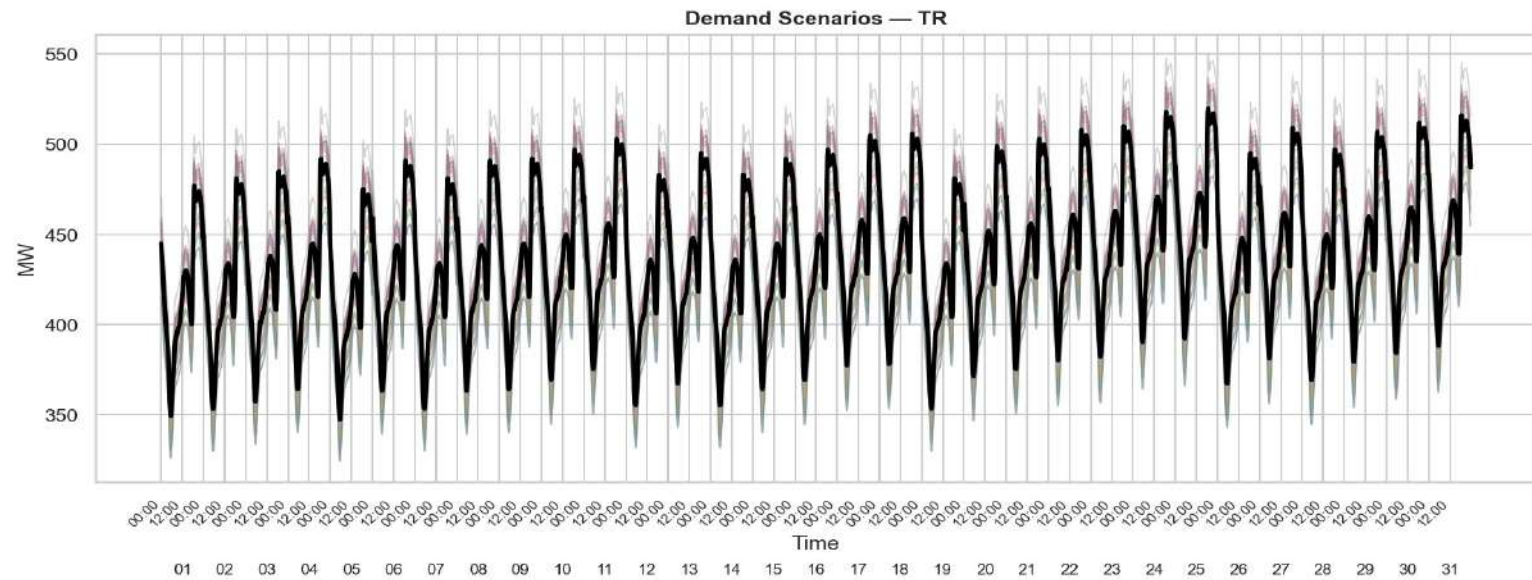
Key Findings : PRAS Results

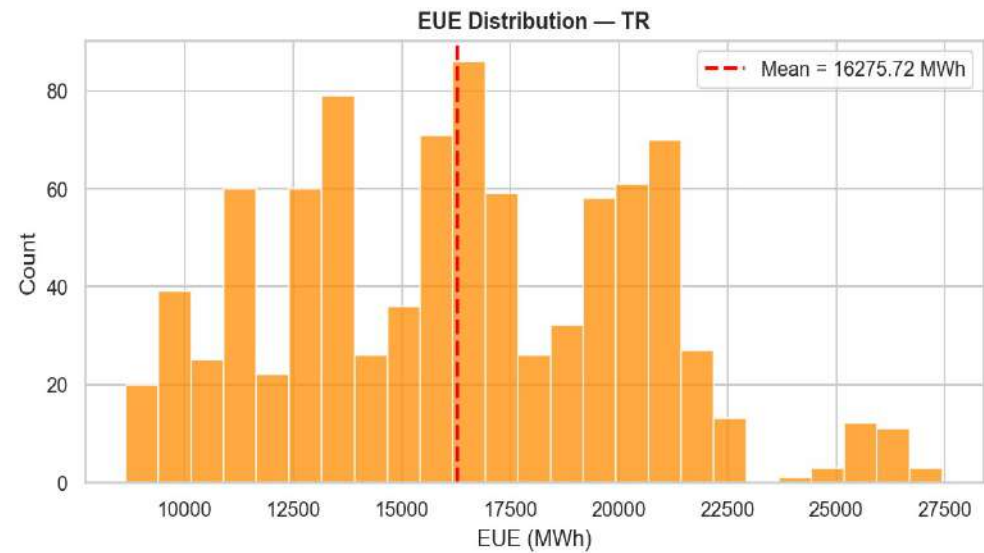
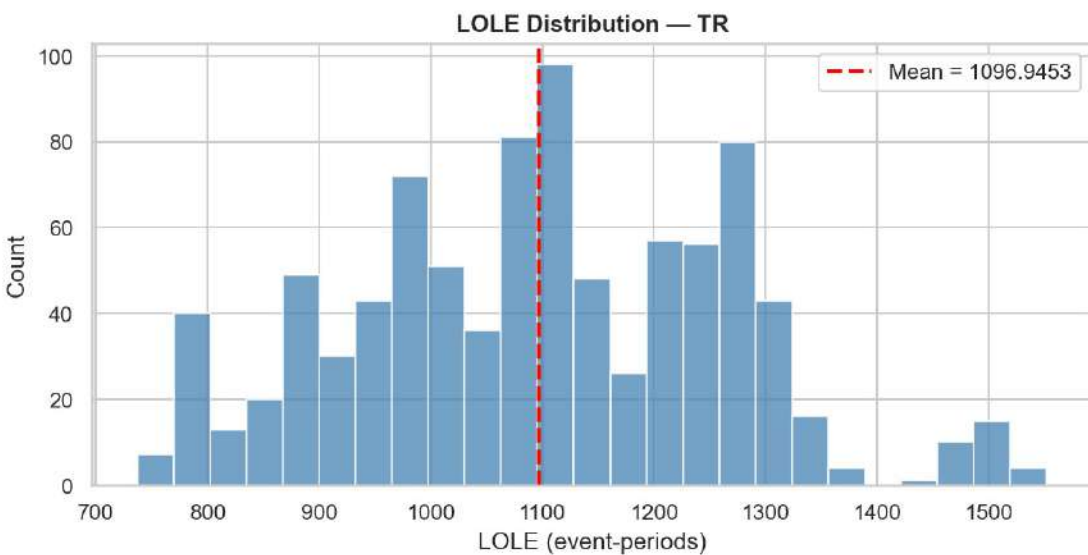
Mean (LOLE = 1096 event-periods, ENS: 16.28 MU)

Worst (LOLE = 1551 event-periods, ENS : 27.45 MU)

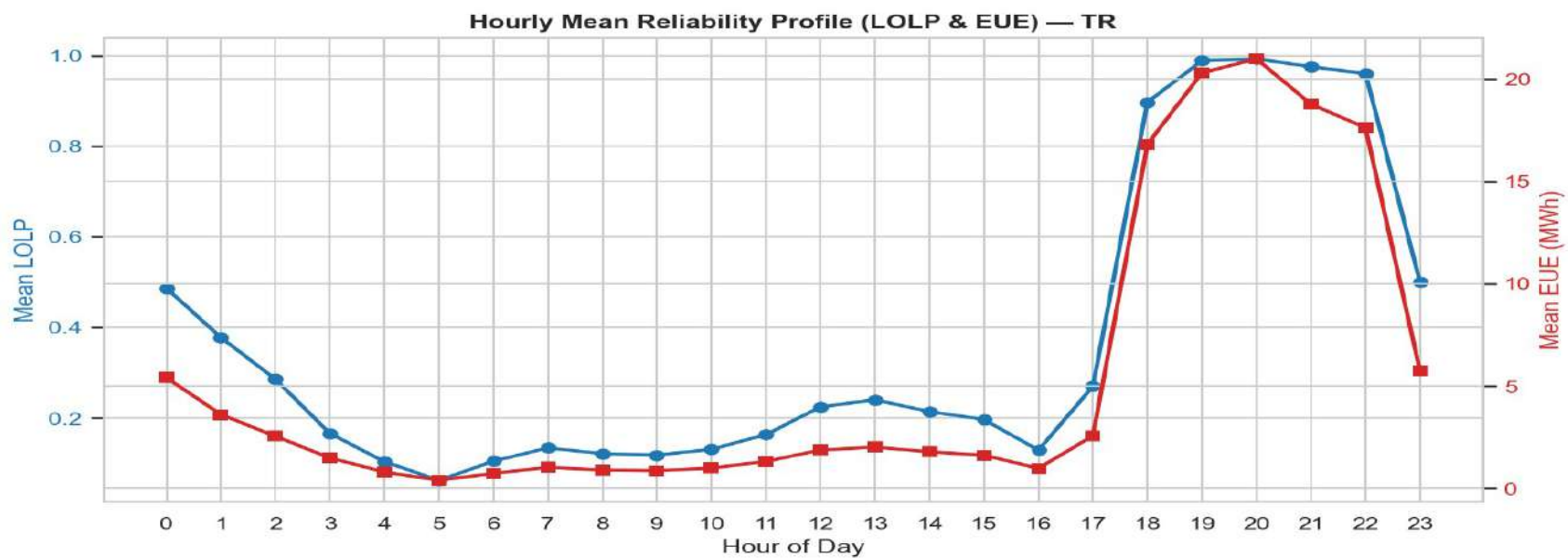
Shortages are observed during non solar hours.

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THANK YOU