



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-793006, मेघालय
NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006, Meghalaya

No. NERPC/SE(O)/OCC/2026/1577-1619

Date: 02.09.2026

सेवा में / To,

संलग्न सूची के अनुसार / As per list enclosed.

विषय: 241 वीं ऑपरेशन समन्वय उप-समिति (ओसीसी) की बैठक का कार्यवृत्त -तत्संबंधी।

Subject: Minutes of 241st Operation Coordination Sub-Committee (OCC) Meeting - reg.

महोदय/महोदया,

कृपया, 21 अगस्त 2026 को एन ई आर पी सी कॉन्फ्रेंस हॉल शिलांग में आयोजित 241वीं ओ सी सी बैठक का कार्यवृत्त आपकी सूचना एवं आवश्यक कार्रवाई हेतु संलग्न देखें। यह एन ई आर पी सी की वेबसाइट www.nerpc.gov.in पर भी उपलब्ध है।

किसी भी टिप्पणी/टिप्पणियों के बारे में कृपया एन ई आर पी सी सचिवालय को जल्द से जल्द सूचित किया जा सकता है।

Sir/Madam,

Please find enclosed herewith the minutes of the 241st OCC Meeting held at NERPC Conference Hall, Shillong on 21st August, 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.

Encl.: As above

भवदीय / Yours faithfully,

दिनेश बाउरी
02/09/2026

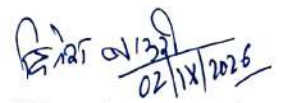
(डी के बाउरी / D K Bauri)

निदेशक / Director

परिचालन / Operation

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2. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
4. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
5. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
6. Director (Transmission), MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Director (Generation), MePGCL, Lumjingshai, Short Round Road, Shillong – 793 001
8. Director (Distribution), MePDCL, Lumjingshai, Short Round Road, Shillong – 793 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
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13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Chief Engineer (Commercial) -cum- CEI, DoP, Govt. of Arunachal Pradesh, Itanagar- 791111
15. Engineer-in-Chief, P&E Department, Govt. of Mizoram, Aizawl – 796 001
16. Engineer-in-Chief, Department of Power, Govt. of Nagaland, Kohima – 797 001
17. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
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20. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura – 799014
21. ED, PGCIL/NERTS, Dongtiah-Lower Nongrah, Lapalang, Shillong -793 006
22. AGM (BD), NVVN, Core 5, 3rd floor, Scope Complex, 7 Institutional Area, Lodhi Rd., N. Delhi-3
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25. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
26. Chief Engineer, NPC Division, Central Electricity Authority, New Delhi – 110066
27. ED, NERLDC, Dongtiah, Lower Nongrah, Lapalang, Shillong -793 006
28. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
29. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
30. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
31. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
32. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
33. Head of SLDC, MSPCL, Imphal – 795001
34. Head of SLDC, MePTCL, Lumjingshai, Short Round Road, Shillong – 793 001
35. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
36. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
37. Head of SLDC, TSECL, Agartala – 799001
38. Chief Engineer (Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
39. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura – 799014
40. Director, NETC, 2C, 3rdFloor, D21Corporate Park, DMRC Building Sector 21, Dwarka, Delhi-77
41. AGM Regulatory & Commercial, NER II TL, 10th Floor, Berger Tower, Noida sector 16B-201301
42. Project Head, NERPSIP/PGCIL, Pub Suraj Nagar, Nutun Bazar, Kahelipara, Guwahati- 781019
43. ED, Comprehensive Scheme (Ar. Pradesh), PGCIL, Tayeng Building, Nitivihar, Itanagar-791111



(डी के बाउरी/ D K Bauri)
निदेशक/ Director
परिचालन/ Operation



**Venue: NERPC Conference Hall,
Shillong**

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NORTH EASTERN REGIONAL POWER COMMITTEE

MINUTES OF 241st OCC MEETING HELD ON 21.08.2026 (FRIDAY) AT 10:30 HRS

Sh. B. Lyngkhai, Member Secretary, NERPC welcomed all the participants to the 241st OCC meeting. At the outset, he appreciated the effectiveness and significance of the OCC meetings and observed that these meetings have played an important role in resolving several operational issues concerning the NER Grid.

Thereafter, he apprised the participants regarding the status of the SOC-NOC project and informed that Arunachal Pradesh, Mizoram and Manipur have submitted the requisite Board approvals for adoption of the 90:10 funding pattern to PSDF. However, the required documents from Meghalaya and Tripura are still awaited. He urged both the States to submit the necessary Board approvals/documents at the earliest to facilitate timely consideration and approval by the PSDF Monitoring Committee.

Further, he informed that NERPC is scheduled to organize a meeting shortly to review the progress of the Comprehensive Scheme and NERPSIP projects. In this regard, all the States and POWERGRID were requested to submit their agenda items, if any, to NERPC at the earliest for inclusion and discussion in the meeting.

He also informed that Hon'ble Chairman, NERPC along with him had called on the Hon'ble Chief Minister & in-charge of Power, Govt. of Assam on 14.08.2026 and during the meeting various issues related to the power sector in Assam & NER as a whole were discussed. He further mentioned that a proposal/resolution to Ministry of Power, Government of India for a special assistance/package for critical projects are being prepared as discussed during the meeting for the overall power development in the North Eastern Region. The proposed package envisages various system strengthening projects, including projects that could not be taken up under PSDF funding.

Thereafter, the Member Secretary requested the Director (Operations), NERPC to take up the agenda items for discussion.

1. PART-A: CONFIRMATION OF MINUTES

1.1. Confirmation of Minutes of 240th Meeting of OCC Sub-Committee of NERPC

The minutes of 240th meeting of OCC Sub-committee held on 24.07.2026 at Hotel Nandan, Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2026/1304-1346 dated 5th August 2026.

Deliberation of the sub-committee

As no comments were received from the constituents, the sub-committee confirmed the minutes of 240th OCCM as circulated.

2.1. Status of Emergency Restoration System (ERS) for NER -NERPC

Ministry of Power vide DO letter dated 05.12.2014 highlighted the necessity of deployment of adequate ERS infrastructure with the states and requested states to issue necessary directives to Transmission utilities/Transmission lines operating in states to procure appropriate number of ERS infrastructure and placed them at strategic location.

As per MoP Guidelines dated 05.12.2014, the ERS requirement is linked to the circuit kilometre (ckm) of transmission lines operated by a licensee:

- A. <500 ckm: May enter into mutual agreement for ERS sharing.**
- B. 500–5000 ckm: Minimum 1 ERS set to be maintained.**
- C. >10,000 ckm: Minimum 3 ERS sets to be maintained and so on.**

Status of ERS availability against the prescribed requirement as follows:

Sl. No.	Utility/State	Total ckt Km	No. of ERSs set required as the guideline	Availability of the ERS set
1	Powergrid	9000	2	2

2	KMTL	254	1	NIL
3	Sterlite (NBTL+MUML)	380	Tie up required with agency	1
4	NTL (Indigrid)	823	1	The parent company IndiGrid owns one set of ERS (16 towers) for all five regions. It will be moved as and when needed.
5	NETC	1326.67	1	1 Set (16 ERS towers - 10 Suspension and 6 Tension)
6	Ar. Pradesh	457	0	NA
7	Assam	5426	2	2
8	Manipur	955	1	NIL
9	Meghalaya	1801	1	NIL
10	Mizoram	1034	1	NIL
11	Nagaland	517	1	NIL
12	Tripura	988	1	NIL

MOP vide letter ref. No. 34/7/2025-TRANSMISSION (MoP) dated 19.08.2025 has conveyed in-principal approval for procurement of 20 sets (300 towers) ERS under Public Procurement (Preference to Make in India) through Regulated Tariff Mechanism (RTM) to POWERGRID. Out of 20 sets of ERS (300 towers) suitable for 400kV Transmission Lines being procured, 4 sets of ERS towers (60 towers) shall be kept in North Eastern Region. This was discussed in 236th OCCM and Powergrid was directed to prepare a SoP for modalities of sharing the ERS with states, user charges etc. and circulate the same to the states for their comments.

In 239th OCCM, POWERGRID apprised the forum that the Letter of Award (LoA) for procurement of five ERS tower sets which is costing around Rs. 17 Cr. per set, has already been placed and the equipment is expected to be delivered by April 2027.

Meghalaya and Manipur informed the forum that proposals for procurement of ERS sets have already been initiated.

Director (Operation), NERPC apprised the States that ERS can also be effectively utilized during planned shutdowns of critical transmission lines to minimize outage duration and maintain reliable power supply in the region. He further requested Arunachal Pradesh also to initiate procurement of ERS set considering the hilly terrain of the state.

Mizoram and Nagaland also agreed to initiate procurement of ERS sets in accordance with the applicable guidelines.

Deliberation of the sub-committee

NERPC requested Arunachal Pradesh to update the circuit kilometres (CKm) of the transmission system within the State, considering the addition of new transmission lines commissioned under the Comprehensive Scheme. Arunachal Pradesh informed that the updated data would be submitted shortly.

Regarding procurement of ERS, the States enquired whether the project would be funded through PSDF. In response, the Member Secretary, NERPC informed that the proposal for the ERS project has been included in the proposed Special Package mentioned above which will be taken up with the Ministry of Power, Government of India. He further stated that the way forward and funding mechanism for the project would be followed as per the outcome of the proposed Special Package.

Regarding the procurement of five ERS sets, POWERGRID (NERTS) informed that the target date for delivery is April, 2027.

Forum noted the same

2.2. 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 240th OCC Meeting:

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.

Deliberation of the sub-committee

Assam informed that all the pending CPPs have registered on the portal and data have been submitted for all the CPPs for the month of July'26.

Forum noted the same

2.3. Energisation of 400 kV Lower Subansiri-BNC I & II Circuits from Lower Subansiri side-NERLDC

At present, the 400 kV Lower Subansiri-BNC III & IV circuits are under operation. The 400 kV Lower Subansiri-BNC I & II circuits were charged for the first time from the BNC end on 30-03-2023 by PGCIL; however, these circuits (I & II) are still not in operation due to non-energisation from the Lower Subansiri side.

As four units (4x250 MW) of the Lower Subansiri project have already been commissioned, and one line can carry a maximum of 1100 MVA, the addition of any further unit would result in non-compliance with the N-1 criterion.

During 239th OCC meeting, NHPC apprised that third circuit of the 400 kV Lower Subansiri–BNC transmission line is expected to be charged by July 2026.

NHPC is therefore requested to provide the current status of the 400 kV Lower Subansiri–BNC I and II circuits, along with the commissioning schedule for the remaining generating units (Units 5 to 8) of the Lower Subansiri Project.

Deliberation of the sub-committee

NHPC informed that the 400kV Lower Subansiri- BNC Circuits-I and II along with Unit-5, is tentatively scheduled to be charged by September, 2026.

Forum noted the same

Action: NHPC

2.4. Unreliable Auxiliary Power Supply at Lower Subansiri HEP- NERLDC

On 12 June 2026, Unit-3 of Lower Subansiri HEP tripped at 18:59 hrs due to tripping of its UAT. Subsequently, at 19:45 hrs, Units-1 & 2 along with 400 kV Subansiri–Biswanath Chariali Ckt-3 & Ckt-4 tripped, resulting in total blackout at Lower Subansiri HEP and generation loss of 694 MW. Unit-4 was already under forced outage.

Following the UAT failure of Unit-3, its auxiliary supply is being extended through the UAT of Unit-1 as a temporary arrangement. Further, the single 33 kV HT source available at Subansiri has been reported to be unreliable for station auxiliary supply.

In July'26, Unit-1 and Unit-3 tripping observed 13 and 16 times respectively.

Under the temporary arrangement, Unit-3 tripped 8 times during July 2026, particularly during outages of Unit-1/DG supply, indicating inadequate reliability and redundancy of the present auxiliary supply arrangement.

Hence, NHPC is requested to expedite replacement of the UAT of Unit-3 and clarify the existing and planned arrangements for reliable and redundant station auxiliary supply, including compliance with the applicable CEA requirements regarding provision of two independent HT sources. The long-term plan for ensuring reliable station supply at the 2000 MW Lower Subansiri HEP may also be shared.

Deliberation of the sub-committee

Regarding UATs, NHPC informed that the order for procurement of five (5) nos. UATs has been placed. Further, two UATs which were under repair expected to be delivered by September-2026; the same would be used for Unit#5 and Unit#3.

Regarding arrangement of station supply through two different sources, NHPC informed that the station is presently receiving power from Gogamukh Substation of Assam, which is highly unreliable during monsoon period. NHPC further informed that the construction of a new line from Kolaptukar Substation in Arunachal Pradesh is also in progress.

On query, NHPC informed that the construction of a 145 kV GIS bay for supply of station power from the 400 kV bus of the station is also in the scheme which is scheduled to be completed by March, 2027 tentatively.

Forum noted the same

Action: NHPC

2.5. Regional Cyber Security Coordination Forums for NER: NERPC

The Government of India after reviewing the needs of Cyber Security in Critical Infrastructure Sector, created dedicated Sectoral CERTs. Following the directives of GOI/ CERT-In, MOP created six sectoral CERTs and designated nodal organisations, as listed below:

S.No.	Sectoral CERT	Nodal Organization
1	CERT – Thermal	NTPC
2	CERT – Hydro	NHPC

3	CERT – Transmission	POWERGRID
4	CERT – Distribution	DP&T Division, CEA
5	CERT – Grid Operation	NLDC
6	CERT – Renewable Energy	MNRE/SECI

The status of Regional Cyber security Coordination Forum(Thermal, Hydro and Transmission) in NER may be discussed.

In 31st TCC Meeting, the forum opined that the item is to be further discussed in Sub-Committee meeting(s) for detailed study/deliberation/clarification and is therefore referred to the Sub-Committee(s) of NERPC.

In the 33rd NETeST meeting, after detailed deliberations, the forum agreed that each nodal agency shall form a sub-committee for each sectoral CERT for NER grid consisting of

- Representatives specializing in Cyber Security/IT from the respective nodal agencies, NERLDC, NERPC and Central/State Sector Generators/IPPs (For CERT Thermal/Hydro)
- Representatives specializing in Cyber Security/IT from the respective nodal agencies, NERLDC, NERPC and Central/State sector Transmission utilities/other TSPs (for CERT-Transmission).

The forum also noted that the respective sub committees shall sit quarterly to discuss the cyber security issues of NER grid pertaining to that sector. A letter in this regard shall be issued by NERPC to all the concerned stakeholders.

Accordingly, NERPC has issued letters dated 08/05/2026 for formation of sub committees for:

1. CERT-Thermal to NTPC (Bongaigaon)
2. CERT-Hydro to NHPC
3. CERT-Transmission to POWERGRID, NERTS

This also discussed in the 34th NETeST meeting, However representatives from NHPC and NTPC were absent from the meeting and hence the matter could not be deliberated.

Deliberation of the sub-committee

CERT – Thermal: NTPC was absent from the meeting. The matter could not be deliberated.

CERT – Hydro: NHPC informed that the matter would be examined and an update would be provided shortly.

CERT – Transmission: POWERGRID informed that a committee has already been constituted at the central level. The Forum requested POWERGRID to constitute a corresponding sub-committee for the NER region. POWERGRID assured that necessary action in this regard would be taken shortly.

Forum noted the same

Action: NTPC, NHPC & PGCIL

2.6. Submission of nodewise load and generation data by SLDCs/ISGS and ATC/TTC computation by SLDCs - NERLDC

As per the “Detailed Procedure for Allocation of Transmission Corridor for Scheduling under GNA and TGNA”, Appendix 1 clause 4.3, timeline for sharing of Nodewise load and generation data, TTC/ATC figure and the updated network simulation model are given in the table below:

Purpose	Sl No	Action of Stakeholder	Responsibility	Submission to	Data/Information on Submission Timeline
1. (M+11) Revision TTC/ATC Declaration Month ‘M’	1(a)	Submission of node wise load and generation data along with envisaged scenarios for assessment of transfer capability Assessment of TTC/ATC of the import/export capability of the state and intra-state system and sharing of	SLDC	RLDC	10th Day of ‘M-12’ month

		updated network simulation models			
	1(b)	Declaration of TTC/ATC of the intra-state system by SLDC in consultation with RLDC	SLDC	RLDC	26th Day of 'M-12' month

2. (M+6) Interconnection Studies for elements to be integrated in the month 'M'	2(a)	Submission of node-wise load and generation data & sharing of network simulation models for intra-state elements coming in the next six months	SLDC	RLDC	8th Day of 'M-6' month
	2(b)	Sharing of inter-connection study results	SLDC	RLDC	21st Day of 'M-6' month
3. (M+1)	3(a)	Submission of	SLDC	RLDC	8th Day of 'M-

Month Ahead TTC/ATC Declaration & Base case for Operational Studies for Month 'M'		node wise load and generation data along with envisaged scenarios for assessment of transfer capability Assessment of TTC/ATC of the intra-state system and sharing of updated network simulation models			1' month
	3(b)	Declaration of TTC/ATC of the intra-state system in consultation with RLDC	SLDC	RLDC	22nd Day of 'M-1' month

Status of data submitted by SLDCs are given below:

States	Nodewise Load and Generation Data Submission (Yes/No)	Submission of Computed TTC/ATC(Yes/No)	Submission of Updated network simulation Model
Assam	Yes	No	No
Ar Pradesh	No	No	No

Manipur	Yes	No	No
Meghalaya	Yes	Yes	Yes
Mizoram	Yes	No	No
Nagaland	Yes	No	No
Tripura	Yes	Yes	No

Status of generation data submitted by ISGS are given below:

ISGS	Generation Data Submission (Yes/No)
NEEPCO	No
NHPC	No
NTPC	No
OTPC Palatana	No

In view of the above, all SLDCs are requested to kindly furnish the node-wise load and generation data, assessed TTC/ATC figures, and updated network simulation models within the timelines specified above.

Further, all ISGS generators are requested to kindly share the anticipated generation data for the month M+11 by 10th of every month.

Deliberation of the sub-committee

NERLDC gave a detailed presentation on the matter and informed that, at present, only Meghalaya and Tripura are regularly submitting the TTC/ATC data.

Arunachal Pradesh assured that the requisite TTC/ATC data would be shared shortly.

Assam informed that the month-ahead network base case is not being received regularly from NERLDC, which is required for the computation of TTC/ATC. In response, NERLDC informed that the requisite base case is being shared regularly with the concerned States.

Manipur informed that they are carrying out the computation of TTC/ATC. However, they are presently using PSSE Version 35, whereas NERLDC requires the data in PSSE Version 36. NERLDC advised Manipur to coordinate with Siemens for upgradation of the PSSE version to facilitate submission of the required data in the compatible format.

Mizoram informed that the M+11 data had been submitted one day prior to the meeting. The Forum urged Mizoram to ensure timely submission of the requisite data as per the stipulated timeline.

Nagaland assured that the requisite TTC/ATC data would be submitted regularly henceforth.

Further, NERLDC requested all ISGS generating stations to submit node-wise injection data regularly for computation of TTC/ATC. NEEPCO, NHPC and OTPC assured that the requisite data would be submitted within the stipulated timelines.

The Forum urged all the concerned States and ISGS generating stations to ensure regular and timely submission of the requisite data to facilitate accurate and timely computation of TTC/ATC.

Action: All concern utilities

2.7. Publication of Computed TTC/ATC on SLDC Website-NERLDC

As per clause 33.3.a of IEGC 2023
quoted

*“SLDCs shall perform day-ahead, weekly, monthly and yearly operational studies for the concerned State for: (a) assessment and declaration of total transfer capability (TTC) and available transfer capability (ATC) for the import or export of electricity by the State. **TTC and ATC shall be revised from time to time based on the commissioning of new elements and other grid conditions and shall be published on SLDC website with all the assumptions and limiting constraints**”*

Same has also been raised in 55th FOLD meeting dated 12.08.2026.

Deliberation of the sub-committee

The Sub-Committee noted the provisions of Clause 33.3(a) of the IEGC, 2023, which require the SLDCs to assess and declare the TTC and ATC for import/export of electricity by the respective State and to publish the same on their websites along with the underlying assumptions and limiting constraints.

The Forum exhorted all the SLDCs to regularly publish the latest TTC and ATC figures, after due reconciliation with NERLDC, on their respective websites, along with the assumptions and limiting constraints, in accordance with the provisions of the IEGC, 2023.

Further, it was also advised that the SLDCs which do not have their own website, may coordinate with their Department of Power (DOP) for creation of a page for SLDC in DOP website where they can publish relevant information related to SLDCs.

Forum noted the same

Action: All SLDCs

2.8. 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.

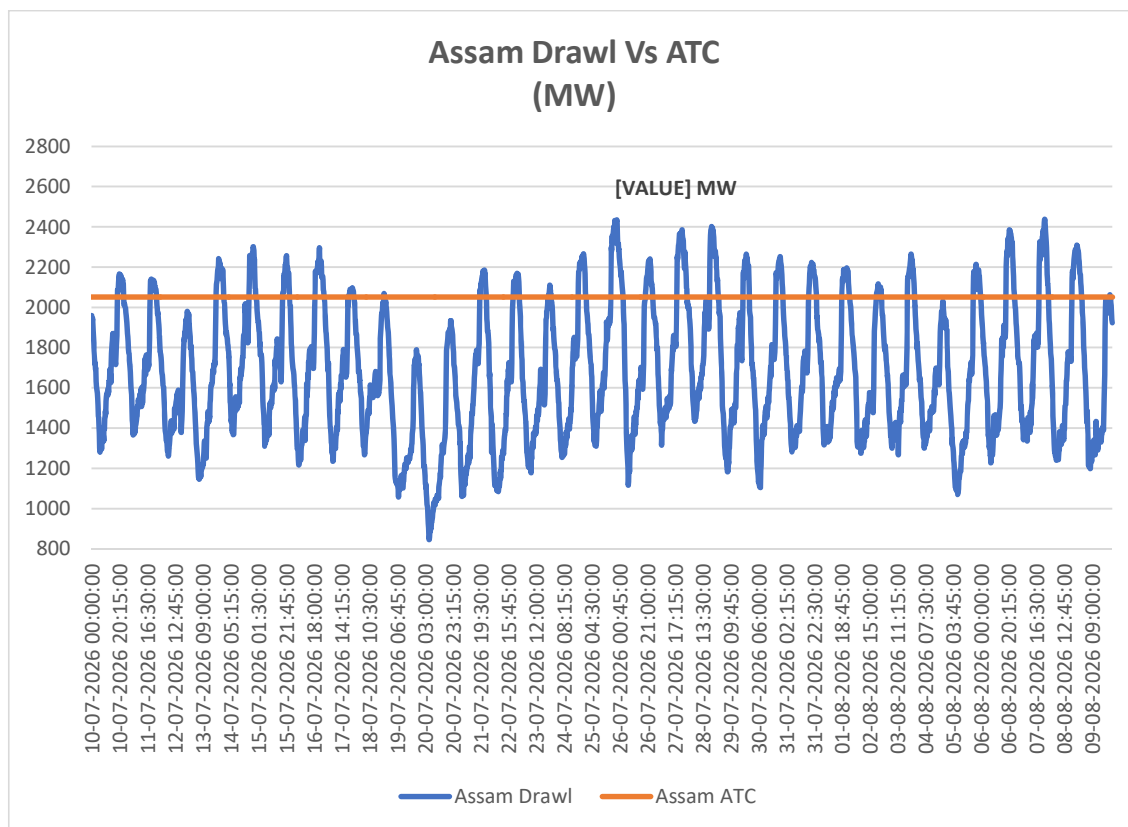


Figure: Assam drawl vs ATC for the month July 2026

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.

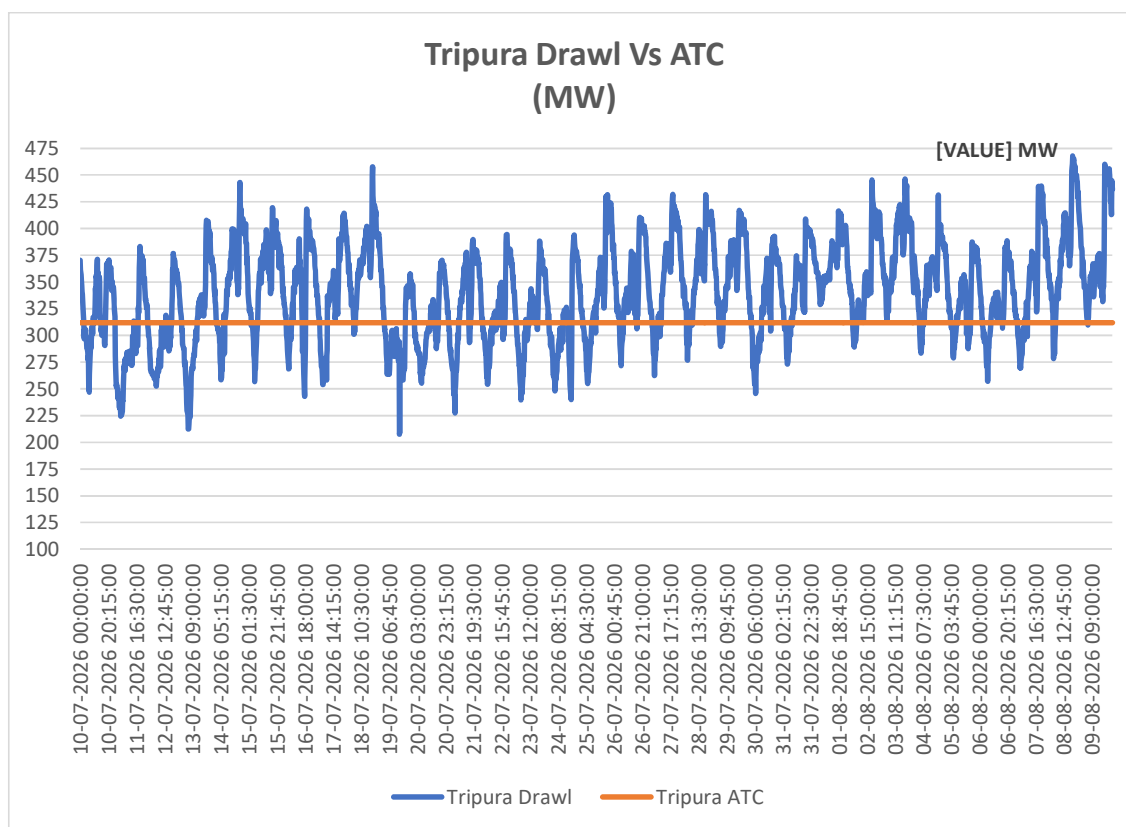


Figure: Tripura drawl vs ATC for the month July 2026

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

AEGCL informed that the 220/132 kV Gossaigaon Substation is nearing completion and is expected to be commissioned tentatively within the next one to two months.

Further, AEGCL informed that the Sonapur and Rangia Substations are expected to be commissioned by the end of 2027 tentatively.

Tripura informed that a request for additional GNA has been submitted to CTU. The matter was also discussed during a Special Meeting of CTU held on 14.08.2026, wherein it was clarified that the grant of additional GNA is contingent upon the strengthening/upgradation of certain critical transmission

elements in the Tripura grid, including the S.M. Nagar–S.M. Nagar, S.M. Nagar–Budhjungnagar, P.K. Bari–Kumarghat and P.K. Bari–Manu transmission lines, among others.

Regarding the strengthening works, Tripura informed that, for the S.M. Nagar–S.M. Nagar and S.M. Nagar–Budhjungnagar transmission lines, all other works have been completed except for the replacement of CVTs, which is expected to be completed within the next one or two days. Regarding the P.K. Bari–Kumarghat transmission line, Tripura informed that approval of the relay settings is awaited.

NERLDC highlighted that several transmission elements commissioned under the NERPSIP Scheme have already been charged; however, the requisite First Time Charging (FTC) documents for these elements are yet to be submitted by Tripura to NERLDC. Tripura assured that the pending FTC documents for the concerned elements would be submitted shortly.

The Forum noted the progress and requested Tripura to expedite the pending works and submit the requisite FTC documents to NERLDC at the earliest.

Forum noted the same

Action: AEGCL & TSECL

2.9. Resource Adequacy and Preparedness for the Upcoming High-Demand Period-NERLDC

Prevailing El Niño conditions across the country, with the increase in electricity demand in the NER, necessitate enhanced preparedness for the upcoming high-demand period. The maximum demand met in NER and Assam reached 4284 MW and 2948 MW respectively on 11.08.2026, and demand is expected to increase further in the upcoming months.

In view of the above, the following may be ensured:

- Adequacy of available generation resources, including hydro, thermal, gas and renewable resources, for the upcoming high-demand period.

- Preparedness for possible dry-weather and low-generation scenarios, particularly during non-solar/peak periods.
- Measures for optimization of planned outages and ensuring adequate availability of generating units during critical periods.
- Assessment of the availability of adequate power procurement arrangements to meet anticipated demand.
- Strict adherence to the approved schedule by all entities and avoidance of overdrawal, particularly during system-stressed conditions

Deliberation of the sub-committee

The Forum noted the guidelines highlighted by NERLDC regarding resource adequacy and preparedness for the upcoming high-demand period, considering prevailing weather conditions.

The Forum emphasized the need for adequate availability of generation resources, optimization of planned outages, preparedness for low-generation scenarios, adequate power procurement arrangements, and strict adherence to the approved schedules, particularly during system-stressed conditions.

The Forum urged all power utilities in the NER to ensure necessary preparedness and strictly adhere to the guidelines issued by NERLDC.

2.10. 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

The status of submission of Demand estimation and RA data for the month of July 2026 is shown in the table below:

	Day-Ahead Demand Forecast *	Week Ahead Demand Forecast (July 2026)					Month Ahead Demand Forecast		Year Ahead Demand Forecast for 2026-27
		Week 1	Week 2	Week 3	Week 4	Week 5	Jul-26	Aug-26	
Arunachal Pradesh									
Assam									
Manipur									
Meghalaya									
Mizoram									
Nagaland									
Tripura									

*Through RA portal

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 informed the Forum that all the States have been submitting the requisite demand forecast data as per the timelines stipulated under the IEGC, 2023, except Tripura. It was highlighted that Tripura has not submitted the day-ahead and Week-1 demand forecast data for the month of July.

Tripura acknowledged the matter and assured the Forum that the requisite demand forecast data would be submitted within the stipulated timelines henceforth.

The Forum urged all SLDCs to ensure timely and regular submission of the demand estimation data to NERLDC.

2.11. Operational Planning and Resource Adequacy for September 2026- NERLDC

The Operational Planning and Resource Adequacy assessment for September 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 Resource Adequacy status of the NER States for the month of September 2026 enclosed as **Annex-2.11**. It was informed that Arunachal Pradesh, Mizoram and Meghalaya are expected to remain in a surplus position, whereas Assam, Manipur, Nagaland and Tripura are likely to experience power shortages during the evening peak hours.

SLDC, Manipur informed that a request has been submitted to the Ministry of Power (MoP), Government of India, for allocation of power from the Farakka Power Plant of NTPC to meet the anticipated power requirement of the State.

SLDC, Tripura informed that 56 MW of power has been arranged from the Mouda Power Plant of NTPC for a period of one year, i.e. up to June 2027, to augment the availability of power in the State.

Member Secretary, NERPC advised the States anticipating power shortages to explore the possibility of arranging power from the surplus States within the NER, subject to availability and mutually agreed commercial/operational arrangements.

The States endorsed the suggestion of the Member Secretary. In this regard, Tripura requested Mizoram to explore the possibility of providing additional power to Tripura to mitigate the anticipated shortage during the evening peak period.

The Forum emphasized the need for close coordination among the NER States for optimum utilization of available generation resources and advised the surplus States to extend power support to deficit States, wherever feasible, during the high-demand period.

Forum noted the same

2.12. 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 240th OCC Meeting, 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.

Deliberation of the sub-committee

NERLDC informed that the list of newly commissioned/charged transmission elements for the period from May to June 2026 has been furnished to NERPC. NERPC requested NERLDC to also provide the list for April 2026.

NERPC requested all the SLDCs to furnish the list of intra-State transmission elements commissioned/charged in their respective States. The States requested NERPC to provide a standard format for submission of the requisite information. NERPC agreed to share the format with all concerned SLDCs.

Mizoram informed that a 'NIL' report has been submitted for July 2026.

Forum noted the same

Action: All concerned utilities.

2.13. 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 September 2026 for discussion in OCC shutdown discussion meeting.

The SD Meeting for deliberating the Shutdowns proposals is scheduled on 18.08.2026 through online mode.

Deliberation of the sub-committee

NERPC informed that the shutdown proposals for the month of September 2026 had been deliberated during the Shutdown Meeting through VC held on 18.08.2026. It was further informed that certain shutdown proposals required further deliberation at the OCC forum.

NERLDC presented the list of pending outage proposals before the Forum. The Forum deliberated on the proposed outages, considering the prevailing system conditions, availability of alternate arrangements and grid security requirements, and approved the outages accordingly.

List of approved SD for September, 2026 is made available on NERPC website.

Forum noted the same

2.14. Planned Shutdown Schedule of Palatana Block-1-OTPC

Background:

CEA approved planned shutdown of Palatana Block-1 was scheduled from 20.09.2026 to 30.09.2026. OTPC had earlier requested preponement of the planned shutdown of Palatana Block-1 for carrying out GT-1 borescopic inspection, annual inspection, HRSG-1 licence renewal and major inspection of the Gas Turbine Generator in view of repeated combustion anomalies and forced trippings. The matter was deliberated in the 240th OCC meeting, wherein the forum agreed in principle to the proposed shutdown for a period of 25 days, subject to review based on prevailing system conditions and availability of replacement power.

Subsequently, OTPC, vide email dated 12.08.2026, informed that due to non-availability of the required resources during the first fortnight of September, the proposed shutdown from 03.09.2026 to 27.09.2026 could not be undertaken. OTPC has therefore proposed to revise the shutdown schedule to 20.09.2026 to

03.10.2026 for completion of the aforesaid inspection and maintenance activities.

The forum may deliberate on the shutdown schedule of Palatana Block-1 from 20.09.2026 to 03.10.2026, keeping in view the system demand, availability of replacement power.

Deliberation of the sub-committee

OTPC requested for revision of the planned shutdown of Palatana Block-I from 20.09.2026 to 03.10.2026. OTPC informed that the schedule has been revised due to unexpected delay in the arrival of required parts/resources for carrying out the planned inspection and maintenance activities.

The proposal was deliberated in detail by the Forum. All the States, except Arunachal Pradesh, expressed their disagreement with the revised shutdown considering the prevailing and anticipated system peak demand in the month of September, 2026 and the unavailability of replacement power.

Assam and Tripura specifically suggested that the shutdown may be availed after the Durga Puja period, considering the expected increase in demand and system requirements during the festival period.

OTPC reiterated that, considering the technical concerns associated with the recurring combustion anomalies in GT-1, in the event the issue becomes uncontrollable or poses a risk to the safe and reliable operation of the unit, OTPC may take an emergency shutdown, as considered necessary, to prevent any major damage to the generating equipment.

In view of the requirement of beneficiaries during the peak demand month of September-2026 and Durga Puja load, the Forum urged OTPC to again reschedule the shutdown of Palatana Block-I preferably after the Durga Puja and make all efforts to maintain the machine till that period.

Forum noted the same

Action: OTPC.

2.15. Complete Shutdown of Loktak Power Station (3x35 MW) for Undertaking Renovation & Modernization Works

In 240th OCC meeting NHPC has submitted the tentative schedule of SD commence from 1st November as given below:

Sl no.	Shutdown Schedule	Shut Down Period in Months	Time period	Remarks
1	Complete Shutdown of all Three Units	Six	Nov'26 to Apr'27	Common Shutdown Period of all Generating Units & 132kV Switchyard for Renovation & Modernization Works of Loktak Power Station.
2	Unit#1 Stand Alone Shutdown	Three	May'27 to Jul'27	02 Generating Units, i.e Unit-2 & 3 will be running.
3	Unit#2 Stand Alone Shutdown	Five	Aug'27 to Dec'27	02 Generating Units, i.e Unit-1 & 3 will be running.
4	Unit#3 Stand Alone Shutdown	Five	Jan'28 to May'28	02 Generating Units, i.e Unit-1 & 2 will be running.
Total		19 months		

To discuss the same a meeting was held on 05.08.2026 with NHPC, MSPCL, MDPDCL and PGCIL. In the meeting following was decided:

- **Implementation of interim arrangement for power supply to Rengpang area.**
 - i. The physical works, including jumpering and associated modifications required for the interim arrangement, shall be executed by **NHPC**.
 - ii. A small technical coordination group comprising representatives from NHPC, MSPCL, and POWERGRID shall be constituted to examine and finalize all technical aspects of the interim arrangement, including system configuration, protection coordination, operational clearances, and associated safety requirements.
 - iii. The activities related to operational clearances, protection setting modifications, and FTC requirements shall be carried out by **MSPCL and POWERGRID** to facilitate timely implementation of the interim arrangement.
- **Optimization of shutdown duration to minimize system impact.**

NHPC shall examine the possibility of optimizing the complete shutdown period in consultation with the OEM and Manipur utilities and submit the revised shutdown timeline, if feasible, for deliberation and consideration in the ensuing OCC Meeting.

- **Action plan for restoration of 132kV Jiribam-Rengpang line.**

MSPCL shall closely pursue the approval of the proposed SASCI funding and undertake restoration of the 132 kV Jiribam–Rengpang transmission line on priority.

As per the decision of the special meeting NHPC is requested to present the revised schedule of complete shutdown of Switchyard.

Deliberation of the sub-committee

NHPC informed that with reference to the request regarding optimization of shutdown duration for the R&M works at Loktak Power Station, the matter has been reviewed in detail with OEM/Executing agency and it is submitted that the schedule for the switchyard-related works has already been optimized to the maximum extent practicable. Further reduction in the switchyard schedule is not feasible, considering the quantum of work involved, system safety requirements and the need for proper testing and commissioning before restoration.

The remaining R&M packages also involve substantial and interdependent activities, including dismantling of equipment, refurbishment of certain components at BHEL works, transportation of dismantled components to BHEL and refurbished components back to Loktak Power Station, reassembly of equipment, installation of new equipment, cable laying and termination, modification of existing arrangements, and subsequent testing and commissioning. These activities require adequate time for safe, systematic and quality execution. Further, after completion of the common shutdown activities, two generating units are required to be made operational with the existing/old system arrangements, which itself is a challenging and critical activity involving common systems such as the Cooling Water System, Compressed Air System and GBOC system. Ensuring the safe and reliable operation of these common

systems while simultaneously carrying out the remaining R&M works requires careful planning, coordination, testing and stabilization. Accordingly, further compression of the overall shutdown schedule may not be technically or practically feasible.

Further, NHPC informed that the prevailing law and order situation in Manipur, including intermittent disturbances and restrictions affecting movement of manpower, transportation of equipment/materials and availability of resources, needs to be duly considered while finalizing the execution schedule.

NHPC would, however, continuously monitor the progress and coordinate closely with the executing agency to ensure that all fronts are made available in a phased manner and the works are completed in the shortest possible time without compromising safety, quality and system reliability.

In view of the above, forum agreed to the shutdown scheduled proposed by NHPC keeping the technical requirements and prevailing site conditions.

Regarding constitution of the Technical Committee, NERPC informed that nominations from MSPCL are still awaited. MSPCL assured that the requisite nominations would be furnished shortly.

Member Secretary, NERPC directed the Technical Committee to undertake a site visit and finalize the proposed interim arrangement at the earliest, so as to facilitate timely implementation of the arrangement.

Forum noted the same

Action: All concerned utilities.

2.16. Proposal for approval of Power Line Crossing Proposal for 400KV LILO Silchar-Byrnihat Line against "Construction of 400/220KV, 2x500MVA GIS at Sonapur(New) along with the associated Transmission Lines: AEGCL

AEGCL is executing Construction of 400/220KV, 2x500MVA GIS at Sonapur(New) along with the associated Transmission Lines and the Contract has been awarded to M/S Techno Electric and Engg Co.Ltd. As per route Survey the tower No AP-39 to AP-40 of our 400KV LILO Sonapur Line from

400KV D/C Silchar-Byrnihat TL is crossing over the existing 220KV MIS-BYR Transmission line of Meghalaya Power Transmission Corporation Limited (MePTCL) at Tower No-359 to T-360. In this regard a letter was submitted to MePTCL vide letter no:AEGCL/MD/AIIB/PKG-H(R)/Tower Crossing/2025/PT-I/2 Dtd.09/06/20026 alongwith necessary drawings/documents for approval.

AEGCL requested for approval from MePTCL for Crossing Proposal for 400KV LILO Silchar-Byrnihat Line against "Construction of 400/220KV, 2x500MVA GIS at Sonapur(New) along with the associated Transmission Lines(hereafter called "PKG-H(R)

Deliberation of the sub-committee

MePTCL representative informed that they were not aware of any formal request received from AEGCL regarding the proposed crossing of the 400 kV LILO Silchar-Byrnihat line over the existing 220 kV MIS-Byrnihat transmission line.

Member Secretary, NERPC advised AEGCL to first follow up with the concerned authorities of MePTCL regarding the submission/receipt of the crossing proposal and obtain necessary acknowledgement. AEGCL was further advised to coordinate with MePTCL for early examination and approval of the proposal.

Forum noted the same

Action: AEGCL

2.17. Issues related to 132/33 kV Hajo GSS, AEGCL, Kulhati constructed under NERPSIP scheme.: AEGCL

The 132/33 kV Hajo GSS, Kulhati, AEGCL was completed by the implementing i.e. PGCIL under NERPSIP agency and commissioned scheme. The sub-station was test charged on 19/10/2023 on 01/10/2024. The following issues are currently observed in the sub-station: i) Seepage Roof leakage has developed in the control room building allowing of water in to the control room which houses vital equipments responsible for operation, monitoring and protecting the EHV assets of the power system. The issue is equally present in the transit camp building and adversely affects the usability of the same. The seepage of water occurs in to the control room and transit camp building also through the doors and windows attributable to improper fitting. ii) The 400kVA, 33/0.4KV station

service transformer could not be put in to service due to some abnormal sound which requires immediate replacement/repairing. The unavailability of the said transformer affects the reliability of the system.

Deliberation of the sub-committee

Sub-Committee referred the matter to the Special meeting NERPSIP/CTDS Review Meeting proposed to be held shortly.

Forum noted the same

2.18. Poor quality of supplied suspension long rod insulators under NERPSIP causing repeated outages of the 220kV Rangia-Amingaon D/C transmission line. AEGCL

The 220kV Rangia-Amingaon D/C transmission line was completed under NERPSIP scheme. Repeated failures of suspension insulator strings have been observed in the in the 220kV Rangia-Amingaon D/C transmission line. The recurring nature of these failures indicates poor quality of the supplied insulators resulting in unwanted outages of this critical transmission line and thus adversely affecting the reliability of this critical transmission line. As the line forms an important part of AEGCL's transmission network, such repeated failures pose a serious concern for reliable power supply. Also, this has severely impacted the power availability of AEGCL.

Deliberation of the sub-committee

Sub-Committee referred the matter to the Special meeting NERPSIP/CTDS Review Meeting proposed to be held shortly.

Forum noted the same

2.19. Waiver of Dynamic Short Circuit (DSC) Test Requirement for Procurement of Approved Regional Spare Transformers with Ester Fluid Technology: POWERGRID

Background: The procurement of the following regional spare transformers was approved by the respective Regional Power Committees (RPCs) to maintain adequate spare coverage in compliance with CERC guidelines and to address contingencies in the ISTS network:

SI No.	Voltage Rating	Capacity	Location	Remarks
1	220/132/33 kV ICT	160MVA	Dimapur	Approved vide 28th NERPC MOM dt:10.03.2025
2	220/132/33 kV ICT	100MVA	Salakati	
3	132/33kV ICT	50MVA	Imphal	

These transformers were envisaged as regional spares to ensure availability of matching spare transformers of specific ratings/capacities in the respective states for restoration during contingencies. Owing to network requirements and existing equipment configurations, these regional spare transformers are intended for one-to-one matching at specific locations and are predominantly non-standard in design and specifications. Present Status Procurement of the above transformers was initiated under Package 2TR01 through the Bulk Procurement Methodology. However, the package had to be annulled despite repeated efforts and extensive vendor outreach due to poor participation by transformer manufacturers.

The primary reason cited by the bidders was the non-availability of Dynamic Short Circuit (DSC) test certificates for these non-standard transformer ratings. As a result, manufacturers were unable to meet the DSC test requirements stipulated in the technical specifications, leading to inadequate competition and unsuccessful tendering.

Developments

Subsequently, CEA has issued an advisory dated 15.05.2026 encouraging the adoption of ester fluids in transformers and reactors with a view to enhancing environmental sustainability, fire safety, and operational reliability.

In parallel, POWERGRID has accumulated significant operational experience with ester-fluid-filled equipment, as summarized below:

- Successful commissioning and operation of a 400 kV, 315 MVA transformer filled with synthetic ester fluid at Bhiwadi in January 2026.
- Satisfactory long-term operation of a 420 kV, 50 MVar natural ester shunt reactor at Maithon for more than five years.

Successful retro-filling of natural ester fluid in:

- (i) 132 kV, 20 MVA Bus Reactor at Aizawl
- (ii) 132/33 kV, 10 MVA Transformer at Pusauli

The positive operational experience demonstrates the technical viability and reliability of ester-fluid-based equipment in POWERGRID's transmission system.

Proposal

Considering the critical requirement of the approved regional spare transformers for contingency management, repeated failure of procurement attempts due to non-availability of DSC-tested nonstandard transformer designs, the one-to-one matching nature of these spare transformers, the CEA advisory promoting the use of ester fluids, and POWERGRID's successful operating experience with ester-fluid-filled transformers and reactors It is proposed that waiver of the Dynamic Short Circuit (DSC) test requirement may be considered for procurement of the above-mentioned non-standard regional spare transformers, subject to implementation of ester-fluid technology and compliance with all other applicable technical requirements.

The proposed waiver is expected to improve bidder participation, enhance competition, facilitate timely procurement of the approved regional spares, and simultaneously encourage adoption of environmentally sustainable transformer technology.

Deliberation of the sub-committee

POWERGRID apprised regarding procurement of the approved regional spare transformers and explained the difficulties being faced in their procurement. POWERGRID informed that the transformers were envisaged as regional spares for contingency restoration and are required to match specific existing transformers at identified locations. Accordingly, most of the proposed spare transformers are non-standard in terms of their ratings/design and specifications.

POWERGRID further informed that procurement of the transformers through the Bulk Procurement Methodology was earlier attempted; however, the package had to be annulled due to inadequate participation from transformer

manufacturers. The major constraint highlighted by the prospective bidders was the non-availability of Dynamic Short Circuit (DSC) test certificates for the specified non-standard transformer ratings, making it difficult for manufacturers to comply with the stipulated technical requirements.

POWERGRID apprised the Sub-Committee of the subsequent developments regarding adoption of ester-fluid technology, including the CEA advisory dated 15.05.2026 encouraging the use of ester fluids in transformers and reactors. POWERGRID also highlighted its operational experience with ester-fluid-filled transformers and reactors, including successful commissioning, long-term operation and retro-filling of such equipment in its transmission system. Based on the above, POWERGRID proposed that the requirement of DSC test certification may be waived for the proposed regional spare transformers, subject to adoption of ester-fluid technology and compliance with all other applicable technical requirements.

The Sub-Committee observed that the DSC test requirement is prescribed under the applicable CEA regulations and, therefore, any proposal for waiver/deviation from the said requirement needs to be examined by the competent authority. He advised that the matter may first be taken up with the PSETD Division of CEA for examination and guidance before proceeding further with the proposed procurement approach.

Further, Forum suggested Powergrid to explore for feasibility of replacing the regional spare Transformers with Standard Capacity of Transformers so that the CEA prescribed DSC test can be included.

Powergrid agreed to carry the feasibility analysis for the spares of Dimapur, Salakati and Imphal Sub-stations.

Forum noted the same

Action: PGCIL

2.20. REQUIREMENT OF OUTAGE FOR 400KV PALATANA-SM NAGAR(ISTS) TL AND 132KV PALATANA-SM NAGAR(TSECL) TL FOR CONSTRUCTION OF MULTI CIRCUIT TOWER IN PLACE OF 03 NOS ERS INSTALLED IN BETWEEN LOC 91 & 92 of 400KV PALATANA-SM NAGAR TL: POWERGRID

Referring to the 234th OCC Agenda, the shutdown for 400 kV Palatana-SM NAGAR(ISTS) TL and 132 kV Palatana-SM NAGAR (TSECL) TL for construction of multi circuit tower in place of 03 NOS ERS installed in between LOC 91 & 92 of 400 kV Palatana -SM NAGAR TL is once again proposed for the month of September'26.

The Line has been erected through ERS since June'21 and measures to restore the line through permanent structures was already decided during 22nd NERPC meeting.

Further, considering ensuing festive seasons in the month of October'26, it is proposed to grant the shutdown in the month of September'26 so that the line could be restored on permanent structures which also enhance the reliability of the grid.

Deliberation of the sub-committee

Tripura stated that the proposed shutdown may be considered after the **Durga Puja** period, considering the ensuing festive season.

Member Secretary, NERPC, observed that the matter has already been deliberated multiple times in the NERPC forums. He further recalled that a Committee had also visited the site and recommended restoration of the line on permanent towers at the earliest, considering the prolonged erection of the line through ERS since June 2021 and the associated reliability concerns.

Member Secretary advised Tripura to ensure that the shutdown maybe allowed at the earliest opportunity after the Durga Puja period, so that the line can be restored on permanent structures without further delay and the reliability of the grid can be enhanced. Tripura agreed.

Forum noted the same

Action: TSECL & PGCIL

2.21. Protocol for Charging of proposed 132 kV Imphal-Rengpang Line: POWERGRID

With reference to the deliberations held during the Special Meeting convened on 05.08.2026 to discuss complete SD of Loktak , it was proposed for an interim arrangement of power supply to the Rengpang area during the complete shutdown of Loktak Power Station Switchyard through 132 kV Imphal-Loktak Line. During discussion, it was understood that 132 kV Loktak-Rengpnag line owned by M/s MSECL undergoes frequent tripping which also caused Grid Disturbances. Thus, POWERGRID is of concern for energizing the proposed section of the line through 132 kV Imphal-Loktak feeder. Repeated tripping/ interruption of fault current will cause stress on the power system and its components which may eventually led to failure. Hence, following charging protocol is proposed which is adhered by POWERGRID for its own transmission system

Quote”

“On tripping of the line, based on fault current and other details (as per DR and events) the decision for charging attempt shall be taken. If upon charging, the fault persists, then the line will be taken out of service, till the healthiness is ascertained by M/s MESCL. During such event, the availability of the feeder is to be considered as deemed available.

Unquote”

Accordingly, the SOP for charging of the line on repeated tripping may be finalised. POWERGRID ensures that all DR and events will be shared for early restoration of the line.

Deliberation of the sub-committee

The Sub-Committee deliberated on the proposed charging protocol for the 132 kV Loktak-Rengpang line during the complete shutdown of Loktak Power Station Switchyard. The concerns raised by POWERGRID regarding repeated tripping of the line and the associated risk to the power system and equipment were noted.

The Sub-Committee decided that the matter shall be deliberated in detail in the Technical Committee constituted for finalization of the interim power supply

arrangement to the Rengpang area. The Technical Committee shall examine the operational and protection aspects associated with repeated tripping/charging of the line and finalize the appropriate protocol.

It was further decided that the SOP/protocol for charging the line following repeated tripping shall be finalized by the Technical Committee, keeping in view the system security and safety of the associated equipment. The finalized SOP/protocol shall be incorporated in the Minutes of the Technical Committee meeting and circulated to all concerned for compliance.

POWERGRID informed that the relevant DR and event records associated with any tripping of the line would be shared between the concerned utilities to facilitate analysis and early restoration of the line.

Forum noted the same

Action: NERPC

2.22. Charging of 132 kV mobile GIS (mGIS) at BNC SS: POWERGRID

POWERGRID Proposes to charge /energize the 132 kV mGIS at BNC S/s tentatively in the month of September'26. In view of this all constituents, are requested to nominate their representative to witness the HV Test and charging of the mGIS system to get familiarised. In continuation to the above the 220 kV mGIS is presently at Bikaner and will be energized soon. Earlier we have received nomination from constituents, however it is requested to submit any further nominations to this end. Dates and other details will be shared accordingly. This is for kind information

Deliberation of the sub-committee

The Sub-Committee noted the proposal of POWERGRID for tentative energization/charging of the 132 kV mGIS at BNC Substation in September, 2026 as well as 220 kV mGIS at Bikaner expected to be energized shortly.

The Forum encouraged the constituent utilities to nominate their representatives to witness the HV testing and charging of the mGIS system, for gaining practical exposure and familiarization with the technology and

associated commissioning procedures. The constituents were requested to submit any additional nominations to POWERGRID at the earliest.

Forum noted the same

2.23. Replacement of 220/132kV ,50MVA ICT at Salakati Substation under Add-Cap 2024-2029: POWERGRID

Equipment Details:

Equipment Name: 220/132kV, 50MVA ICT-1

Make: NGEF

Sr No: 68000000067

Year of Commissioning: 1994

The existing 220/132 kV, 50 MVA ICT-1, manufactured by NGEF (Germany) and commissioned at Salakati Substation in 1994, has been in service for more than 32 years. During past few years, multiple instances of oil leakage have been observed in the transformer, indicating progressive ageing and deterioration of critical components.

Further, the transformer is equipped with 220 kV and 132 kV Oil Impregnated Paper (OIP) bushings of a non-standard design, for which compatible spares are no longer available due to obsolescence. The situation is further aggravated by the fact that the original equipment manufacturer, M/s NGEF, is no longer in existence, resulting in complete non-availability of OEM support, technical assistance, and replacement spare parts.

Considering the advanced age of the transformer, recurring oil leakages, non-availability of critical spare bushings, and absence of OEM support, continued operation of the unit poses an increased risk of operational failure and consequential damage to associated equipment. In the event of bushing failure or any major internal fault, restoration may be significantly delayed due to the unavailability of replacement components. In view of the above, and to ensure reliable system operation, avoid major failures, and prevent consequential damage, it is proposed to replace the existing 220/132 kV, 50 MVA NGEF make ICT-1 with a new transformer under the Add-Cap Scheme 2024-2029. The

estimated cost for procurement, erection, testing, and commissioning of the replacement 220/132 kV, 50 MVA ICT is ₹11.76 Crore.

Proposal: Approval may be accorded for replacement of the existing ICT-1 under Add-Cap 2024–2029 at an estimated cost of ₹11.76 Crore to maintain system reliability and mitigate the risk of failure arising from ageing.

Deliberation of the sub-committee

POWERGRID presented the proposal for replacement of the existing 220/132 kV, 50 MVA ICT-1 at Salakati Substation under the Add-Cap Scheme 2024–2029. POWERGRID apprised the Forum that the NGEF make ICT, commissioned in 1994, has been in service for more than 32 years and has experienced multiple instances of oil leakage in recent years. It was further informed that the transformer is equipped with non-standard OIP bushings for which compatible spares are no longer available, and the OEM, M/s NGEF, is no longer in existence. In view of the ageing of the transformer, recurring oil leakage and non-availability of OEM support/spares, POWERGRID proposed replacement of the ICT with a new 220/132 kV, 50 MVA transformer at an estimated cost of ₹11.76 crore.

The Forum deliberated on the proposal and technically agreed to the replacement of the existing ICT-1, considering the age of the transformer, recurring oil leakage, obsolescence of critical components and associated reliability concerns.

Regarding the proposed expenditure under the Add-Cap Scheme 2024–2029, the Forum decided that the financial aspect of the proposal would be further deliberated in the Commercial Coordination Meeting (CCM).

Accordingly, the proposal may be taken up in the CCM for consideration of the cost implication under the Add-Cap Scheme.

Forum noted the same

Action: NERPC/PGCIL

2.24. Replacement of 132kV 20MVAR Reactor at Kumarghat Substation under Add-Cap 2024-2029: POWERGRID

Equipment Details:

Equipment Name: 132kV, 20MVAR Bus Reactor

Make: CGL Sr No: 8642/1

Year of Commissioning: 1999

The existing 132kV, 20MVAR Bus Reactor manufactured by CGL and commissioned at Kumarghat Substation in 1999, has been in service for more than 27 years. During the past few years, multiple instances of oil leakage have been observed in the reactor indicating progressive ageing and deteriorating quality of various components of the reactor. It is to be noted that due to the deteriorating quality and ageing of the reactor, there has been multiple failure instance of the installed 132kV bushings. Details of bushing failure are as below:

132kV B-ph bushing: Feb 2022

132kV Y-ph bushing: Dec 2022

Further, maintaining of identical spares is also a big challenge as the components for replacement in case of any failure is not available due to change of design of such reactors over the course of time. Non availability of spares may lead to prolonged outage in case of any failure as replacement with identical spare is mandatorily required. Additionally, due to multiple oil leakages, the winding paper insulation quality has also deteriorated which is ascertained by the increasing moisture ppm content in the insulating oil for the reactor. Hence, considering the advanced age of the transformer, recurring oil leakages, non-availability of critical spares, continued operation of the unit poses an increased risk of operational failure and consequential damage to associated equipment. In the event of bushing failure or any major internal fault, restoration may be significantly delayed due to the unavailability of replacement components. In view of the above, and to ensure reliable system operation, avoid major failures, and prevent consequential damage, it is proposed to replace the existing 132kV

20MVAR CGL make Reactor at Kumarghat with a new Reactor under the Add-Cap Scheme 2024–2029.

The estimated cost for procurement, erection, testing, and commissioning of the replacement 132kV 20MVAR is ₹3.2 Crore.

Proposal: Approval may be accorded for replacement of the existing Reactor under Add-Cap 2024–2029 at an estimated cost of ₹3.2 Crore to maintain system reliability and mitigate the risk of failure arising from ageing and obsolescence of spares.

Deliberation of the sub-committee

POWERGRID presented the proposal for replacement of the existing 132 kV, 20 MVar Bus Reactor at Kumarghat Substation under the Add-Cap Scheme 2024–2029. POWERGRID informed that the CGL make reactor, commissioned in 1999, has been in service for more than 27 years and has experienced multiple instances of oil leakage and bushing failures, indicating ageing and deterioration of the reactor. It was further informed that the availability of identical replacement spares has become a major challenge due to changes in reactor design over the years. The deteriorating condition of the reactor and increasing moisture content in the insulating oil were also highlighted as reliability concerns.

The Sub-Committee deliberated on the proposal and technically agreed to the replacement of the existing 132 kV, 20 MVar Bus Reactor, considering its advanced age, recurring oil leakages, previous bushing failures, deterioration of insulation quality and non-availability of critical replacement spares.

Regarding the proposed expenditure of ₹3.20 crore under the Add-Cap Scheme 2024–2029, the Sub-Committee decided that the financial aspect of the proposal would be further deliberated in CCM.

Accordingly, the proposal may be taken up in the CCM for consideration of the cost implication under the Add-Cap Scheme.

Forum noted the same

Action: NERPC/PGCIL

2.25. Collapse of Tower NO. 0009 (Location No. 12/0) of 220 kV Zhadima-Mokokchung Transmission line at Zhadima village due to rainfall induced landslide/mudslide

The 220kV S/C Transmission Line from Zhadima -Mokokchung was constructed by M/s Shyama Power under NAG-TW-01 package of NERPSIP. The Transmission Line was test charged from 220kV Mokokchung PG S/s up to the dead-end Tower of 220/132kV Zhadima S/s on 12/02/2025. On 20/02/2025, the said Transmission Line tripped after which the Line has not been charged till date.

DoP, Nagaland received report on 10/08/2026 that 1(One) No. of 220kV Tower (Tower No. 0009) of the 220 kV Zhadima-Mokokchung Transmission line at Zhadima village (Latitude- 25.831447°, Longitude94.073384°) was affected by landslide/mudslide during the recent period of incessant and heavy rainfall.

Accordingly, officials from the Department went for site inspection of the affected Tower on 11/08/2026. During the inspection, it was observed that the Tower foundation had been completely affected by the landslide and the whole structure has been compromised. Also, one side of tower leg member have been completely displaced from its original position requiring immediate attention and necessary dismantling and relocation measures. The Transmission Line was planned to be charged from 220/132kV Zhadima S/s once the substation was charged through the 220kV KMTL Zhadima D/C line. However, due to collapse of the tower due to landslides, the Line will be unsuitable for charging and operation. Considering the importance of the 220kV transmission line and the need to make assets under NERPSIP functional, early restoration of the affected tower is of utmost importance.

It may be mentioned that the damage of the Tower occurred within a relatively short period after completion and test charging of the Line (less than 18 months) and the cause of the collapse of the Tower is attributed to severe rainfall induced landslide/mudslide at the tower location rather than routine maintenance issue.

Further delay in restoration of the Line may lead to complete collapse of the tower and may even affect the adjacent towers and line components.

In view of the above, it is requested to kindly examine and consider the relocation/shifting of the affected Tower under the existing NERPSIP funding framework. As the NERPSIP project is nearing its scheduled closure, the proposal may be considered on priority for taking up the restoration work within the remaining project period, thereby facilitating early restoration of the transmission line.

Deliberation of the sub-committee

Sub-Committee referred the matter to the Special meeting NERPSIP/CTDS Review Meeting proposed to be held shortly.

Forum noted the same

Action: NERPC

2.26. Issues related to commissioning of the proposed 132 kV switching S/S at Kalian, Cachar District: AEGCL

A. Urgent requirement for commissioning of the proposed 132 kV switching S/S at Kalian, Cachar District

Deliberation of the sub-committee

AEGCL informed the forum that the following CTs and VTs are urgently required for completion and commissioning of the proposed 132 kV Switching Substation at Kalain. Since the equipment is required on an urgent basis, AEGCL requested POWERGRID to arrange the same on loan/returnable basis, subject to availability.

Sl. No	Equipment	Specification	Quantity
1.	Current Transformer (CT)	132 kV, 800-400/1/1/1/1 A; Core-1: Class 0.2S, 20 VA; Core-2: Class 5P20, 20 VA; Core-3: Class PX;	06 Nos

		Core-4: Class PX	
2.	Voltage Transformer (VT/PT)	132 kV/ $\sqrt{3}/110$ V/ $\sqrt{3}/110$ V/ $\sqrt{3}/110$ V/ $\sqrt{3}$; Wdg-1: Class 0.2, 50 VA; Wdg-2: Class 3P, 50 VA; Wdg-3: Class 3P, 50VA	06 Nos

POWERGRID agreed to arrange the required CTs and VTs on a loan/returnable basis, subject to availability, for completion and commissioning of the proposed 132 kV Switching Substation at Kalain, Cachar District.

Forum noted the same

Action: AEGCL & PGCIL

B. Arrangement of ERS towers on temporary basis to evacuate power till installation of the permanent towers

Deliberation of the sub-committee

AEGCL informed that M/s Star Cement North East India Ltd. has requested AEGCL for deployment of 13 (thirteen) nos. of Emergency Restoration System (ERS) towers till erection of the balance permanent towers for drawing power on an emergency basis.

The matter has been examined by AEGCL but AEGCL is not in a position to provide the requested 13 nos of ERS Towers as available ERS inventory is already under utilization.

The matter was deliberated in the forum. Considering the drawl of power on emergency basis, the forum advised M/s Star Cement North East India Ltd. to explore for arrangement of the required ERS towers from any external agency on hiring basis for immediate drawl of power.

Member Secretary enquired from representative of star cement the ERS required to commission the said line. It was informed by star cement that they would now require only 4-5 towers of ERS.

Member Secretary requested other transmission utilities who can spare the ERS on loan basis and intimate to NERPC so that instruction can be disseminated to AEGCL/star cement.

Forum further advised M/s Star Cement to ensure that the permanent transmission structures are erected and commissioned within a maximum period of six months.

Forum noted the same

Action: Concerned Utilities.

C. Approval of the forum for HTLS conductoring of LILO arrangement in 132kV Panchgram –Khliehriat transmission Line

Deliberation of the sub-committee

AEGCL informed the forum regarding the proposal for providing LILO arrangement of the existing 132 kV Panchgram–Khliehriat HTLS transmission line at the proposed new switching station. It was also informed that the existing line is already equipped with HTLS conductor; however, the required HTLS conductor is presently not available with AEGCL.

On query by Member Secretary regarding HTLS conductor, MePTCL stated that the existing HTLS conductor rating is 800A. Hence, the same rating equivalent HTLS conductor can be used and they do not have any objection on the make of HTLS conductor.

After detailed deliberation forum concluded that as the existing 132 kV Panchgram–Khliehriat transmission line is an HTLS line, the proposed LILO

portion and other associated bay equipment at the new switching station shall have ratings compatible with the current ratings of the HTLS conductor.

Forum noted the same

Action: AEGCL.

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 the forum 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 240th OCCM	Status as per 241st 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

Station Name	Status as per 240th OCCM	Status as per 241st OCCM
Doyang	NEEPCO apprised the forum that the OEM had quoted a comparatively high price for the closed loop testing for implementation of AGC and that negotiations with the OEM are underway. Work is expected to be completed by August 2026.	Status remains same as updated last. Work is expected to be completed by October 2026.
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.	Work is expected to be completed by August 2026.
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.	Work is expected to be completed by August 2026.
Pare	AGC implementation will be carried out in the lean period, i.e., after Nov'26.	Work is expected to be completed by August 2026.
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.	Work is expected to be completed by August 2026.

Station Name	Status as per 240th OCCM	Status as per 241st OCCM
Palatana	OTPC apprised the forum that implementation of AGC at Palatana is not considered feasible owing to the isolated nature of the Palatana grid system, and that frequent 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.	Work is expected to be completed by August 2026.
Subansiri Lower HEP	NHPC informed that AGC would be enabled after getting dam safety clearance for full FRL of Subansiri reservoir.	NHPC informed that AGC would be enabled after getting dam safety clearance for full FRL of Subansiri reservoir.

Action: NEEPCO, OTPC, NHPC

3.2. 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.

In 240th OCCM NEEPCO informed that 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.

Deliberation of the sub-committee

NEEPCO informed that, considering the present progress of restoration works, Unit-2 of Panyor Lower Hydro Power Station (PLHPS) is anticipated to be synchronized with the grid by 16:00 hrs on 24.08.2026.

Further, NEEPCO informed that Unit-3 is expected to be restored within one week after the restoration of Unit-2, subject to favourable rainfall and weather conditions, as completion of tailrace silt clearance is dependent on the prevailing weather conditions.

Regarding Unit-1, NEEPCO informed that the restoration timeline has not yet been ascertained.

The Sub-Committee noted the status and advised NEEPCO to make all possible efforts to expedite the restoration of the remaining units and keep NERLDC/NERPC apprised of the progress.

Action: NEEPCO

Annexure-I**List of Participants in the 241st OCC Meeting held on 21.08.2026**

SN	Name & Designation	Organization
1.	Sh. Napi Modi, SE, SLDC	Ar. Pradesh
2.	Sh. A.Tatung, JE, SLDC	Ar.Pradesh
3.	Sh. Ashim Sutrashar DM, SLDC, AEGCL	Assam
4.	Ms. Sushmita Das , JM SLDC ,AEGCL	Assam
5.	Sh. Sishrikyia Dutta , DM , APDCL	Assam
6.	Smti. Laishram Ritu, GM, SLDC, MSPCL	Manipur
7.	Sh. J.A.W. Pariat, SE, SLDC MePTCL	Meghalaya
8.	Sh. B. Samiam, EE (GO), SLDC, MePTCL	Meghalaya
9.	Sh. M.L.Pohshna, EE, MePGCL	Meghalaya
10.	Sh. Lalthanzuala SE, SLDC P&ED Mizoram	Mizoram
11.	Sh. Pulovi Sumi, SDO	Nagaland
12.	Sh. Namheu Khate, EE (T)	Nagaland
13.	Sh. Alex E.Ngullie, JE	Nagaland
14.	Sh. Debabrata Pal, DGM, TSECL	Tripura
15.	Sh. Anil Debbarma, AGM,SLDC	Tripura
16.	Sh. Bhaskar Mazumder, DGM (T)	NEEPCO
17.	Sh. Suman Das, DGM	NEEPCO
18.	Sh. Somara Lakra, CGM I/c	NERLDC
19.	Sh. Neeraj Kumar, CGM	NERLDC
20.	Sh. Anjan Kumar Pandey, Dy.Mgr	NERLDC
21.	Sh. Utpal Das, Dy.Mgr	NERLDC
22.	Sh. Bastov Saikia, Asst.Mgr	NERLDC
23.	Sh. Manish Kr.Tiwari, CGM (AM)	PGCIL
24.	Sh. Ashim Kr. Paul, DGM	PGCIL
25.	Sh. Sanjib Pal, Section Head-PME	OTPC
26.	Sh. Niranjan Rabha, I/c NETC Guwahati	NETC
27.	Sh. Nitish Kumar, GM (E), LOKTAK	NHPC
28.	Kanti Soni (GSM), O&M Division, C.O.	NHPC
29.	Sh Rajesh Joshi, (DGM), Subansiri Lower Power Station	NHPC
30.	Sh. Lokesh Gupta, DGM (E), LOKTAK	NHPC
31.	Sh. Suneel Patel, Asst. Mgr	Resonia
32.	Sh. B.Lyngkhai, Member Secretary	NERPC

33.	Sh. D.K.Bauri, Director	NERPC
34.	Smti. Kanchan Chauhan, Dy.Director	NERPC
29	Sh. Vikash Shankar, Asst. Director	NERPC

Agenda 2.11 Monthly State Level Resource Adequacy Assessment- September 2026

Methodology adopted for RA Evaluation

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

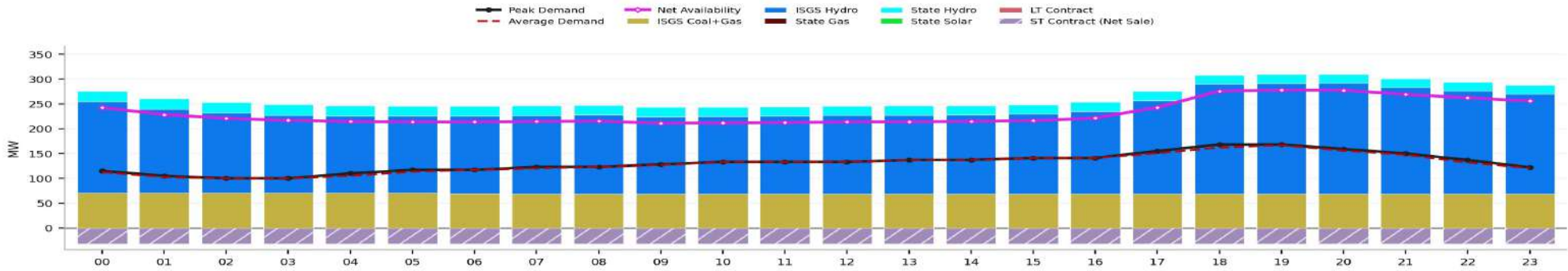
- INPUTS:
 - Forecasted demand, RE, Intra State generation and contracts provided by state
 - Generator planned outage considered (Palatana Block 1 outage from 20th September 2026 to 30th September 2026)
 - DAM and RTM purchases not considered
 - 30 different demand scenario considered with an 10% error 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 September considered for storage type hydro ISGS generators (Panyor full generation has been considered for the studies.)

MONTHLY HOURLY DETERMINISTIC RESOURCE ADEQUACY — ARUNACHAL PRADESH

September 2026 | Hourly source-wise availability based on monthly average of 15-minute data

Peak Demand: 168 MW (18:00-19:00) | Expected Minimum Surplus: 75 MW (15:00-16:00) | Min. Reserve Margin: +53.3% | Expected Average Surplus (18-22 Hrs): 117 MW | Deficit Hours: 0

Hourly Source-wise Resource Contribution and Demand (MW)

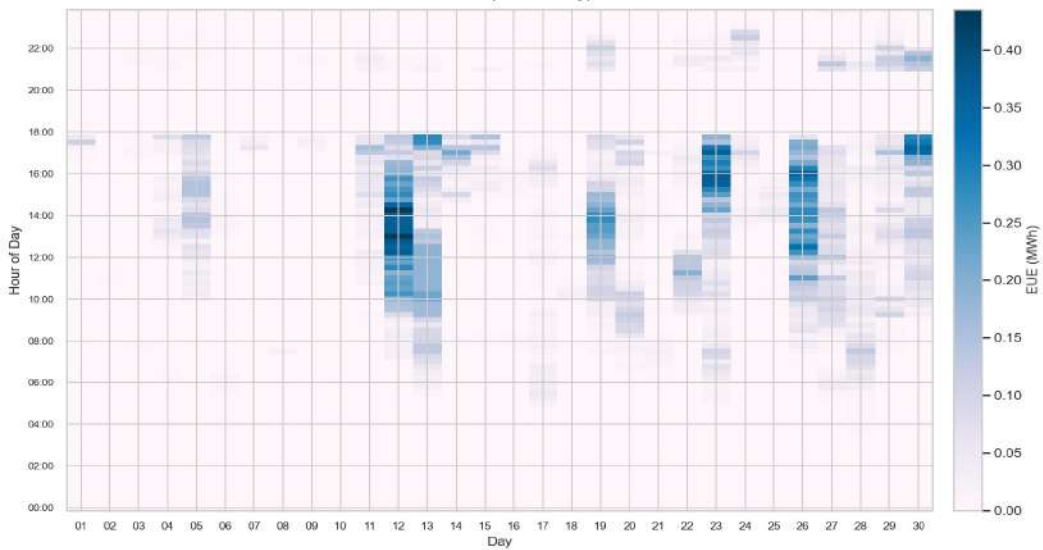


00:00-24:00 | RESOURCE ADEQUACY

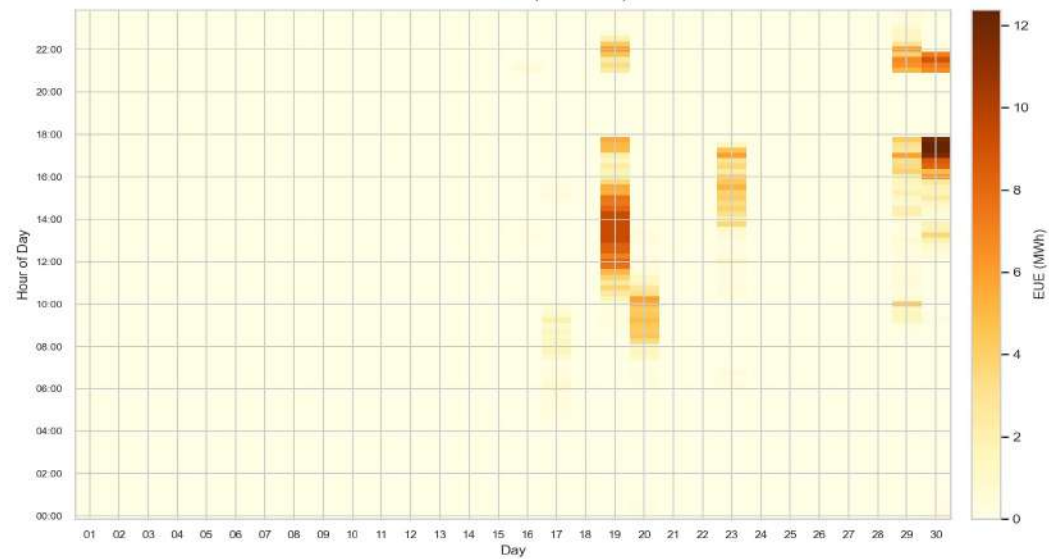
Parameter	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Peak Demand	115	105	100	100	110	117	117	123	123	128	133	133	133	137	137	141	141	155	168	168	159	150	137	122
Average Demand	112	102	100	100	105	113	117	120	123	127	133	133	133	137	137	141	141	150	162	166	156	148	132	120
ISGS Coal+Gas	70	70	70	70	71	71	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
ISGS Hydro	184	169	161	157	155	155	157	158	159	155	156	157	158	159	159	161	166	188	221	223	223	215	208	201
State Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Hydro	21	21	22	21	21	21	20	20	20	20	19	19	19	19	19	19	19	19	18	18	18	18	18	18
State Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT Contract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST Contract	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32	-32
Total Availability	243	228	221	217	214	214	214	214	215	211	211	212	214	214	215	216	221	243	276	277	277	269	262	256
Peak Surplus	+128	+123	+121	+117	+104	+97	+97	+91	+92	+83	+78	+79	+81	+77	+78	+75	+80	+88	+108	+109	+118	+119	+125	+134
Average Surplus	+130	+126	+121	+117	+109	+101	+97	+94	+92	+84	+78	+79	+81	+77	+78	+75	+80	+92	+114	+111	+122	+122	+130	+135
Peak Reserve Margir	+111.1%	+117.4%	+121.0%	+116.7%	+94.9%	+82.7%	+82.6%	+74.3%	+74.9%	+64.9%	+59.0%	+59.6%	+60.7%	+56.2%	+56.7%	+53.3%	+57.0%	+56.7%	+64.1%	+65.1%	+74.4%	+79.4%	+91.3%	+109.8%
Average Reserve Ma	+115.8%	+122.7%	+121.0%	+116.7%	+104.1%	+88.8%	+82.6%	+78.7%	+74.9%	+66.6%	+59.0%	+59.6%	+60.7%	+56.2%	+56.7%	+53.3%	+57.0%	+61.3%	+70.2%	+66.6%	+78.0%	+82.4%	+98.9%	+112.4%

Methodology: Peak demand = maximum 15-min demand within each clock hour during the month. Average demand and each availability source = mean of all 15-min observations for that clock hour. Surplus = Total Availability - Demand. Reserve Margin % = Surplus / Demand x 100. Surplus and Reserve Margin % cells are coloured by reserve margin: red when negative, orange when below 5%, and green otherwise.

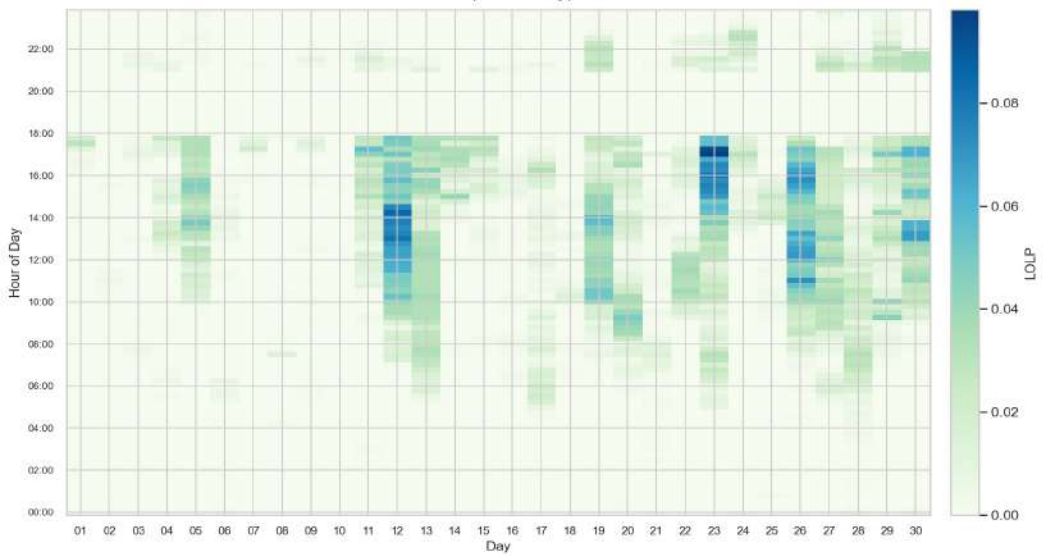
Mean EUE MWh (Hour × Day) — AR



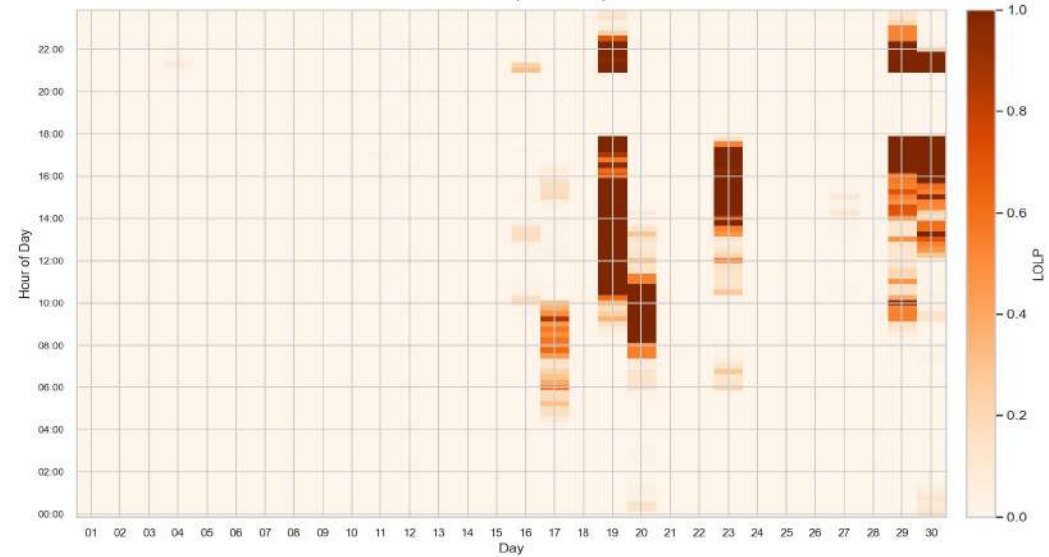
Worst-Case EUE MWh (DS28/GS2) — AR

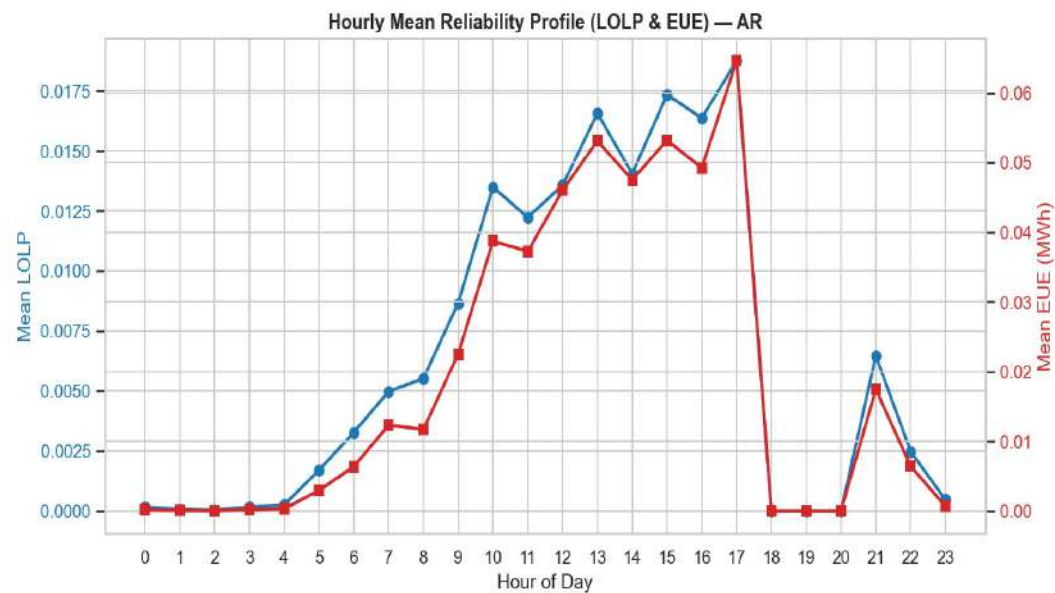
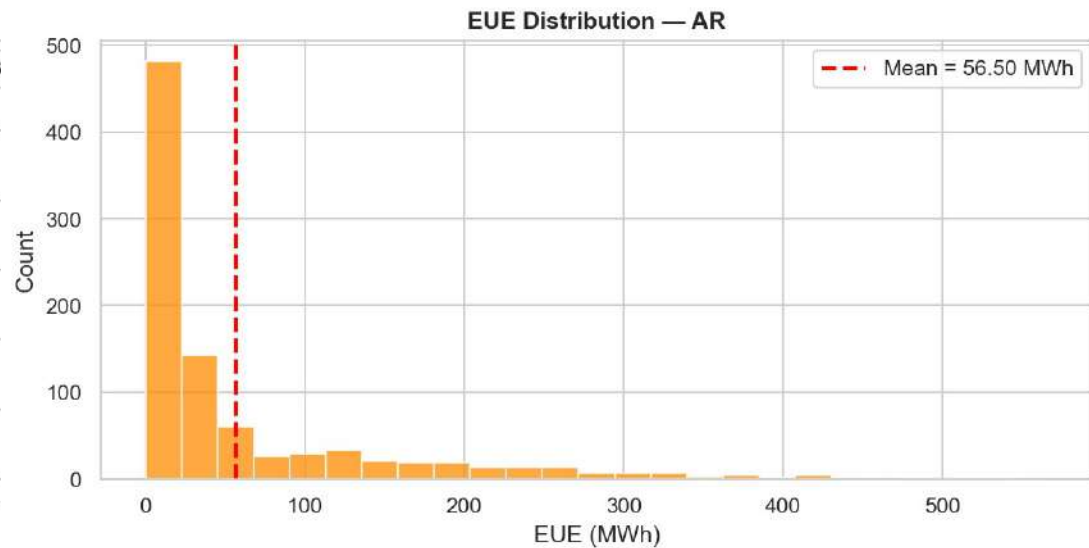
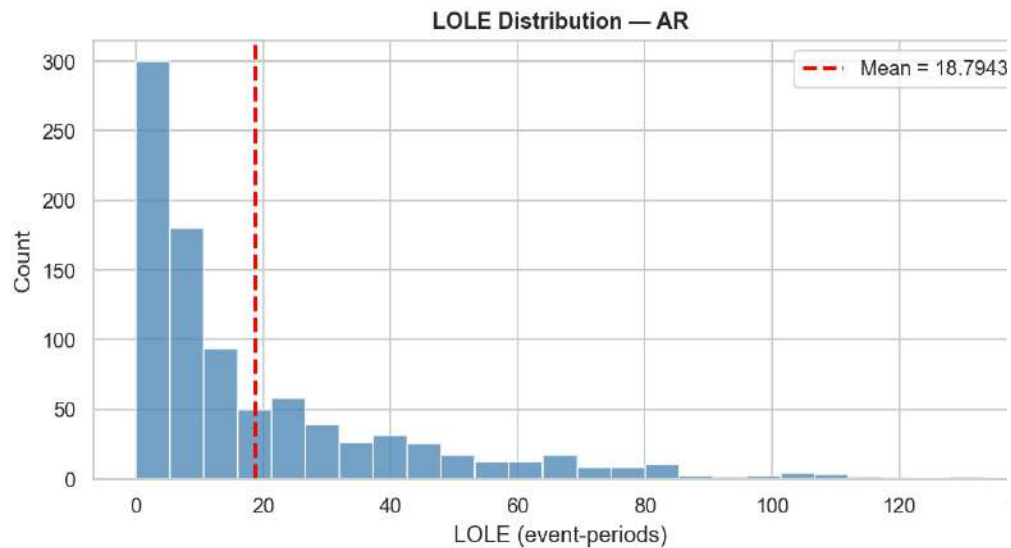


Mean LOLP (Hour × Day) — AR



Worst-Case LOLP (DS28/GS2) — AR





Key Findings : PRAS Results

Mean (LOLE = 18.79 event-periods/month , ENS: 0.056 MU)

Worst (LOLE = 133.36 event-periods , ENS : 0.566 MU)

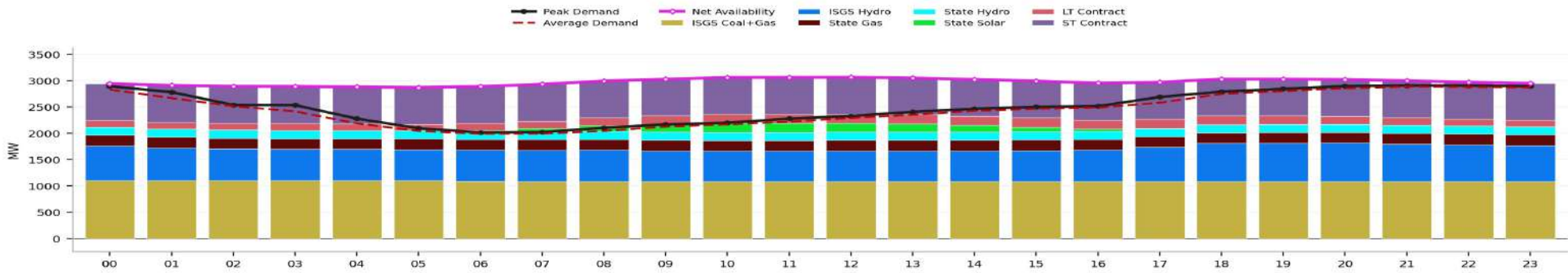
Predominantly in surplus.

MONTHLY HOURLY DETERMINISTIC RESOURCE ADEQUACY — ASSAM

September 2026 | Hourly source-wise availability based on monthly average of 15-minute data

Peak Demand: 2,911 MW (21:00-22:00) | Expected Minimum Surplus: 48 MW (00:00-01:00) | Min. Reserve Margin: +1.7% | Expected Average Surplus (18-22 Hrs): 199 MW | Deficit Hours: 0

Hourly Source-wise Resource Contribution and Demand (MW)

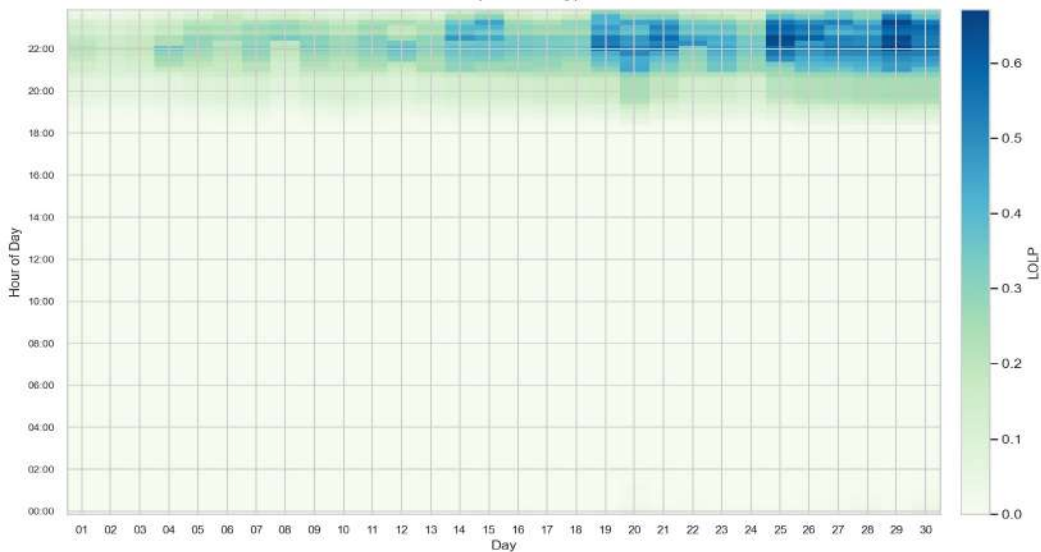


00:00-24:00 | RESOURCE ADEQUACY

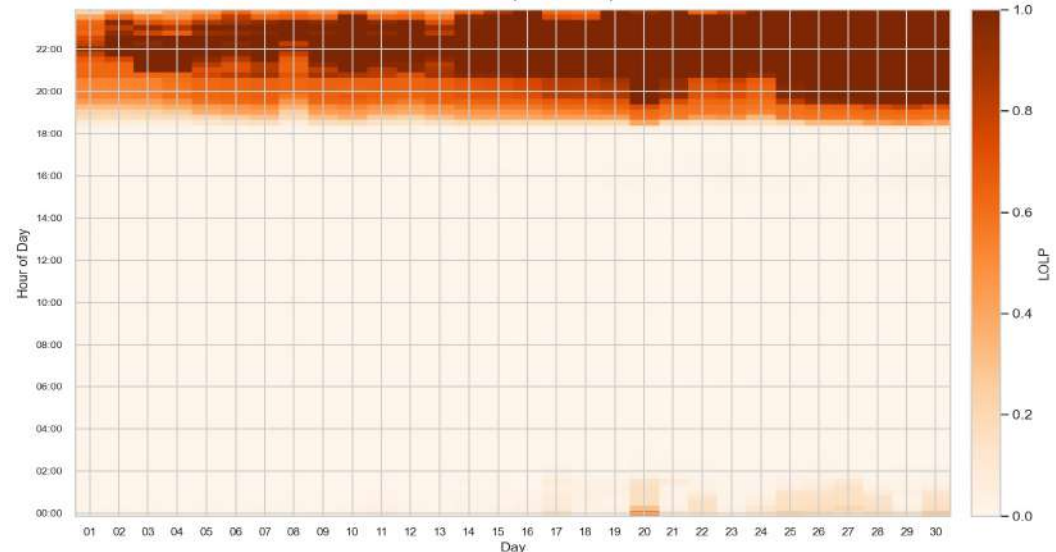
Parameter	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Peak Demand	2,896	2,783	2,539	2,537	2,279	2,098	2,018	2,025	2,106	2,170	2,201	2,279	2,329	2,409	2,468	2,503	2,515	2,690	2,792	2,846	2,898	2,911	2,909	2,896
Average Demand	2,833	2,669	2,516	2,419	2,189	2,046	1,992	1,994	2,047	2,129	2,170	2,221	2,294	2,352	2,428	2,469	2,491	2,582	2,749	2,804	2,857	2,888	2,882	2,874
ISGS Coal+Gas	1,102	1,102	1,102	1,102	1,105	1,105	1,090	1,084	1,084	1,084	1,084	1,084	1,084	1,084	1,083	1,083	1,083	1,083	1,083	1,084	1,084	1,084	1,084	1,084
ISGS Hydro	659	624	606	598	594	592	593	596	599	582	578	577	581	582	584	589	602	653	726	730	732	715	700	685
State Gas	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202
State Hydro	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155
State Solar	0	0	0	0	0	3	23	62	110	150	171	176	174	159	131	92	43	8	0	0	0	0	0	0
LT Contract	127	128	128	134	126	116	127	134	145	159	171	169	169	170	172	173	171	170	166	162	154	144	133	124
ST Contract	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
Total Availability	2,945	2,912	2,894	2,892	2,882	2,874	2,891	2,933	2,995	3,032	3,062	3,064	3,065	3,053	3,027	2,994	2,956	2,971	3,033	3,033	3,026	3,000	2,974	2,950
Peak Surplus	+48	+128	+355	+355	+602	+775	+873	+908	+889	+862	+861	+785	+737	+644	+560	+491	+441	+281	+241	+187	+128	+89	+66	+54
Average Surplus	+112	+242	+377	+473	+692	+827	+899	+939	+948	+903	+891	+843	+771	+701	+600	+525	+466	+389	+285	+229	+169	+111	+92	+76
Peak Reserve Margin	+1.7%	+4.6%	+14.0%	+14.0%	+26.4%	+37.0%	+43.3%	+44.9%	+42.2%	+39.7%	+39.1%	+34.4%	+31.6%	+26.7%	+22.7%	+19.6%	+17.5%	+10.4%	+8.6%	+6.6%	+4.4%	+3.1%	+2.3%	+1.9%
Average Reserve Margin	+4.0%	+9.1%	+15.0%	+19.6%	+31.6%	+40.4%	+45.1%	+47.1%	+46.3%	+42.4%	+41.1%	+38.0%	+33.6%	+29.8%	+24.7%	+21.3%	+18.7%	+15.1%	+10.4%	+8.2%	+5.9%	+3.9%	+3.2%	+2.6%

Methodology: Peak demand = maximum 15-min demand within each clock hour during the month. Average demand and each availability source = mean of all 15-min observations for that clock hour. Surplus = Total Availability - Demand. Reserve Margin % = Surplus / Demand x 100. Surplus and Reserve Margin % cells are coloured by reserve margin: red when negative, orange when below 5%, and green otherwise.

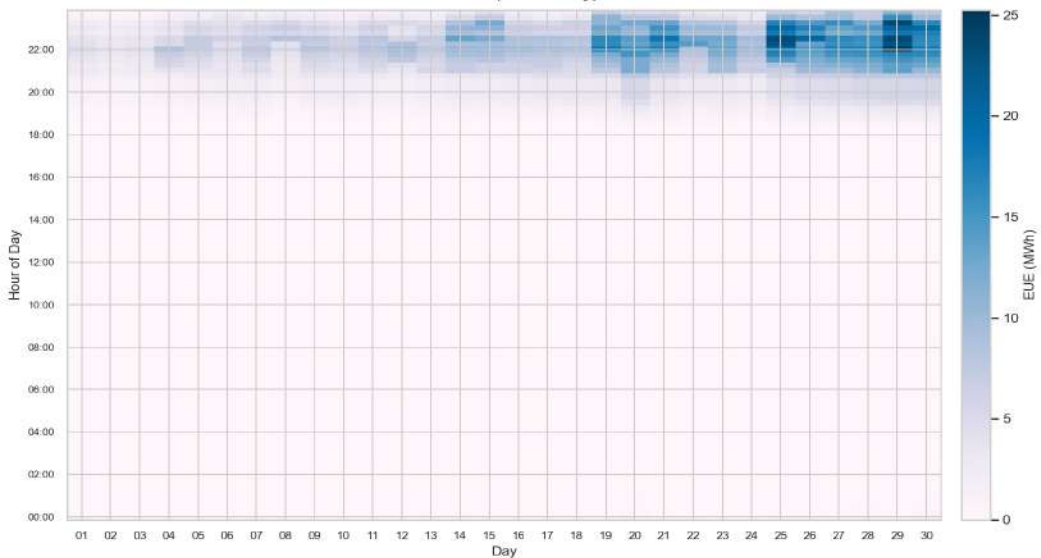
Mean LOLP (Hour × Day) — AS



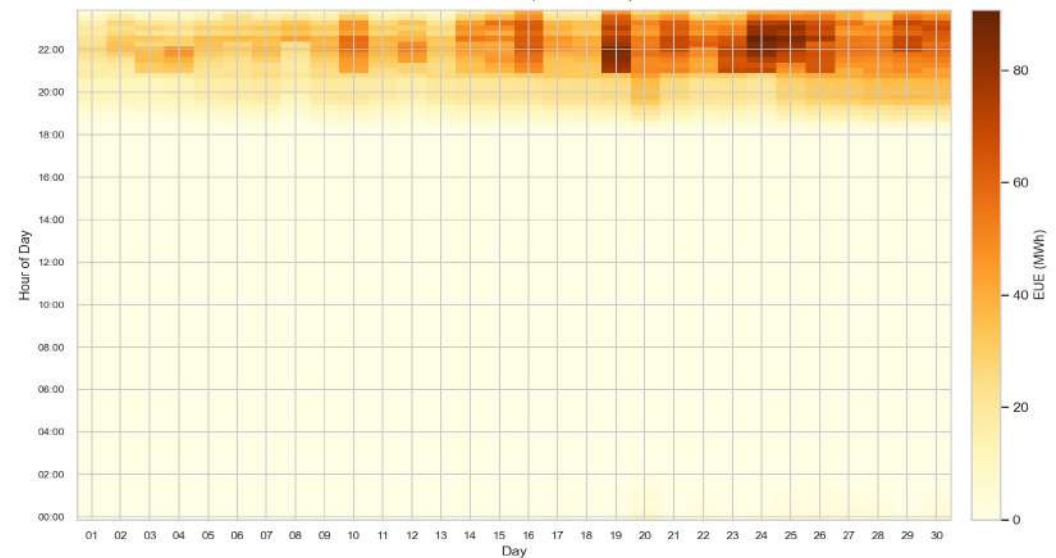
Worst-Case LOLP (DS28/GS23) — AS

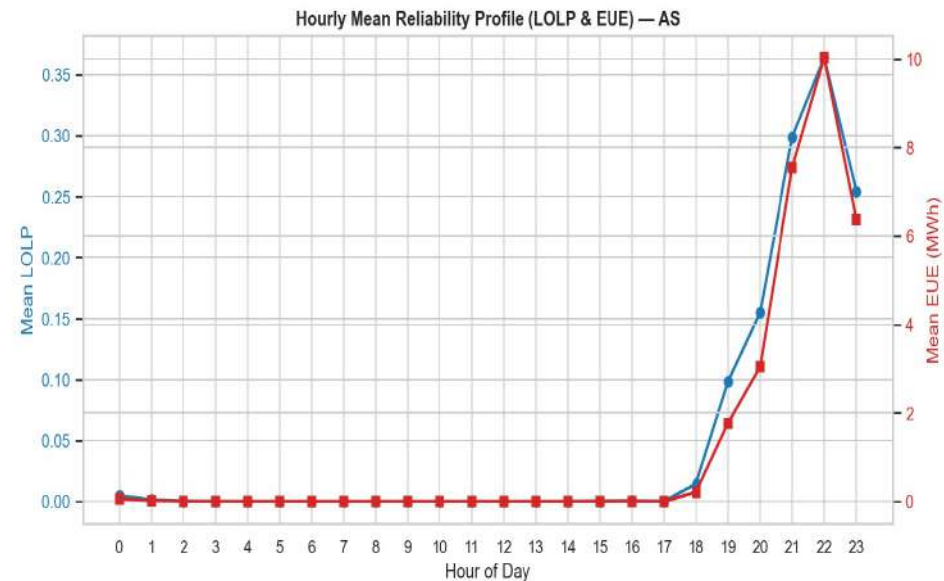
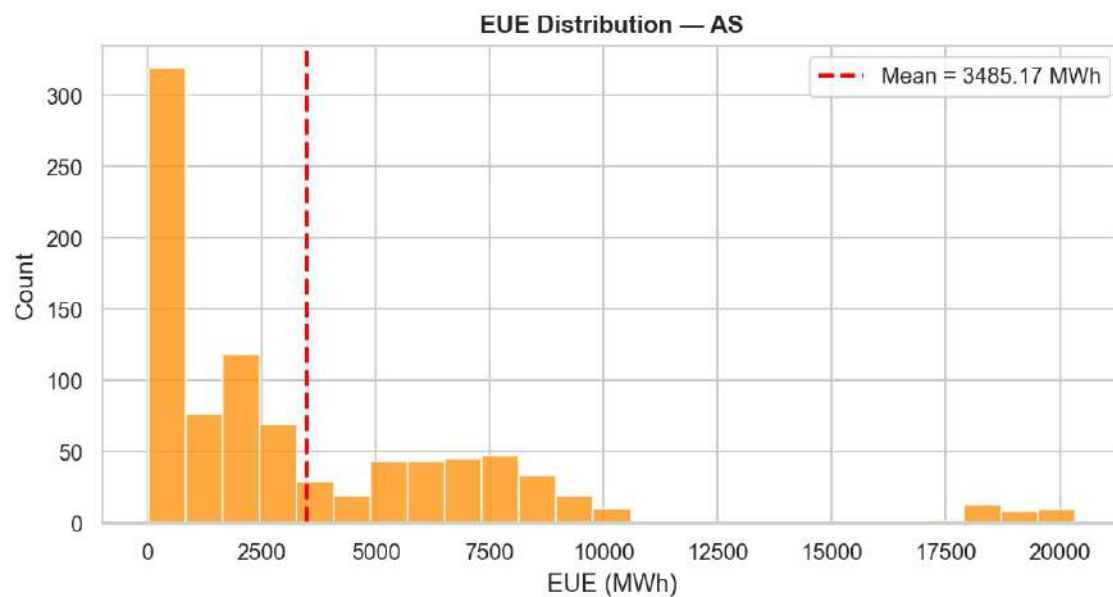
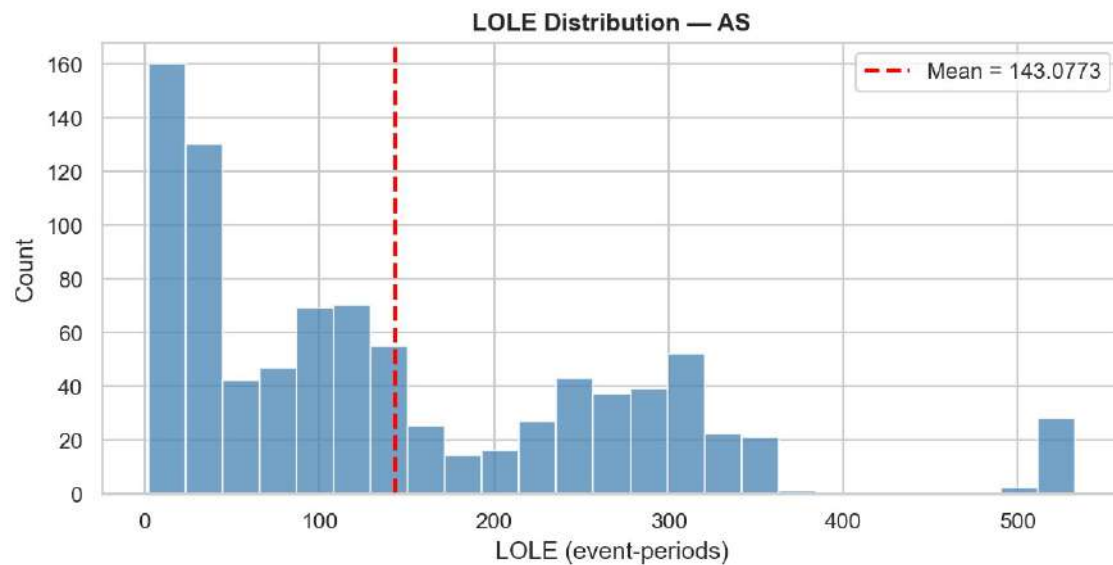


Mean EUE MWh (Hour × Day) — AS



Worst-Case EUE MWh (DS28/GS23) — AS





Key Findings : PRAS Results

Mean (LOLE = 143.08 event-periods/month , ENS: 3.485 MU)

Worst (LOLE = 532.78 event-periods , ENS : 18.575 MU)

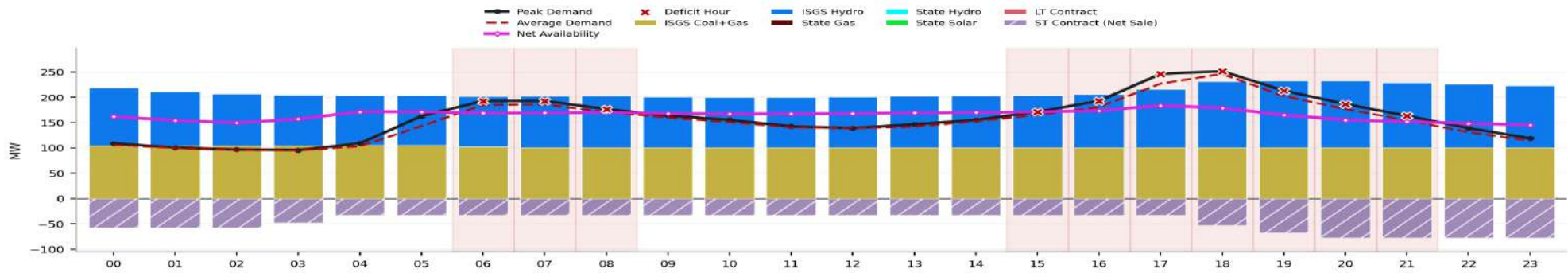
Shortages expected from 20:00 hrs to 24:00 hrs during outage of Palatana Block 1.

MONTHLY HOURLY DETERMINISTIC RESOURCE ADEQUACY — MANIPUR

September 2026 | Hourly source-wise availability based on monthly average of 15-minute data

Peak Demand: 251 MW (18:00-19:00) | Expected Maximum Deficit: 73 MW (18:00-19:00) | Min. Reserve Margin: -28.9% | Expected Average Deficit (18-22 Hrs): 32 MW | Deficit Hours: 10

Hourly Source-wise Resource Contribution and Demand (MW)

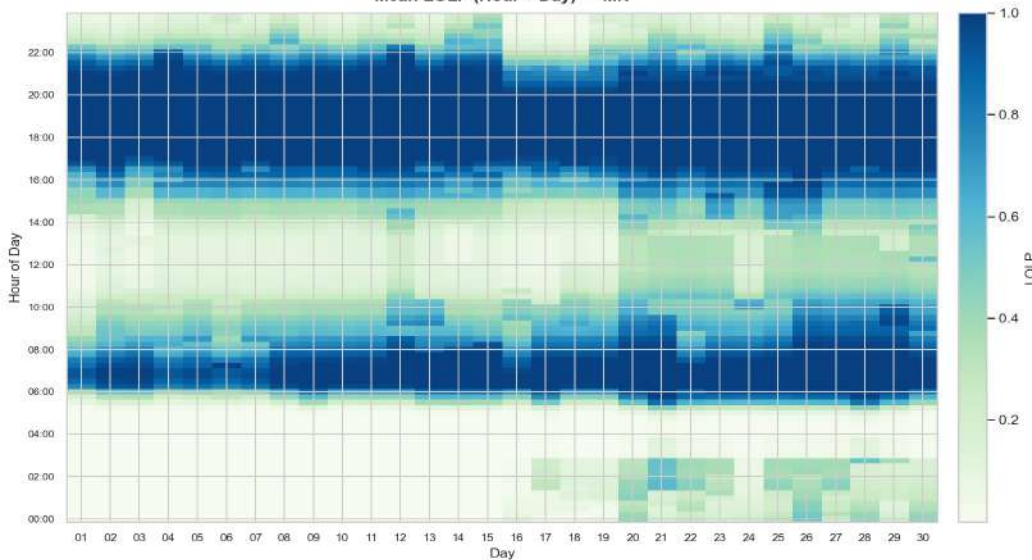


00:00-24:00 | RESOURCE ADEQUACY

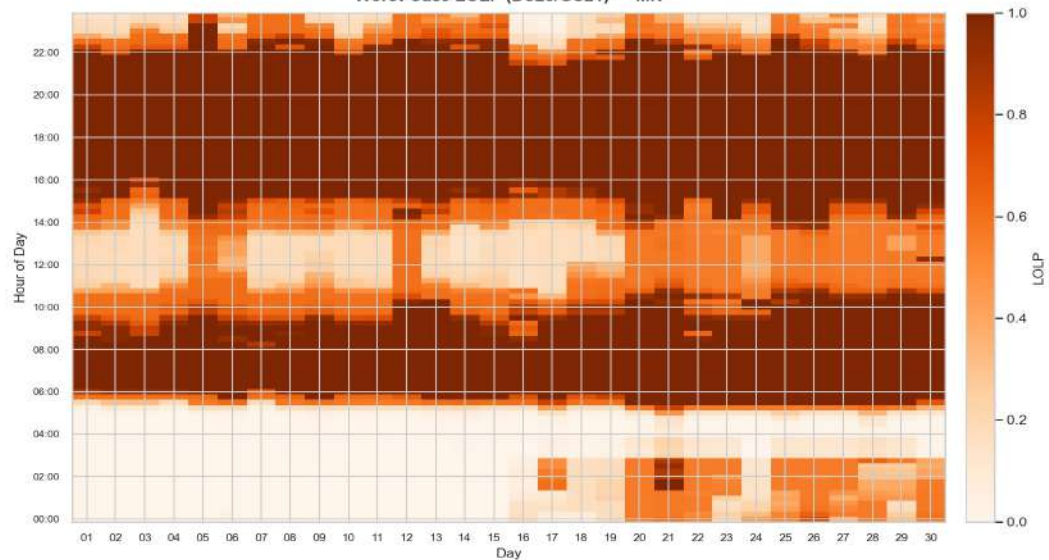
Parameter	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Peak Demand	109	101	97	96	109	163	193	193	177	164	155	142	139	147	155	171	193	246	251	213	187	163	139	119
Average Demand	106	100	96	95	103	143	185	186	171	160	151	141	139	142	152	165	181	227	246	202	177	154	131	114
ISGS Coal+Gas	105	105	105	105	105	105	102	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
ISGS Hydro	115	107	102	100	99	99	99	101	102	100	99	99	100	101	102	103	106	116	131	132	132	128	125	122
State Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT Contract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST Contract	-58	-58	-58	-48	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-33	-53	-68	-78	-78	-78	-78
Total Availability	162	154	150	157	171	171	169	169	170	168	167	167	168	169	170	171	174	184	179	165	155	152	148	145
Peak Surplus	+53	+53	+53	+61	+63	+8	-24	-24	-6	+4	+12	+25	+29	+23	+15	-0	-19	-63	-73	-48	-31	-12	+9	+26
Average Surplus	+56	+54	+54	+62	+68	+28	-16	-17	-0	+8	+16	+26	+29	+27	+17	+6	-7	-43	-67	-37	-21	-3	+17	+31
Peak Reserve Margir	+49.0%	+53.1%	+54.9%	+64.0%	+57.5%	+5.1%	-12.4%	-12.2%	-3.4%	+2.5%	+7.5%	+17.3%	+20.6%	+15.4%	+9.5%	-0.2%	-9.9%	-25.4%	-28.9%	-22.7%	-16.8%	-7.1%	+6.6%	+22.1%
Average Reserve Ma	+53.1%	+54.6%	+56.2%	+65.2%	+66.3%	+19.6%	-8.7%	-9.0%	-0.1%	+5.1%	+10.8%	+18.8%	+20.6%	+19.2%	+11.4%	+3.5%	-3.9%	-19.1%	-27.4%	-18.5%	-12.2%	-1.7%	+13.2%	+27.3%

Methodology: Peak demand = maximum 15-min demand within each clock hour during the month. Average demand and each availability source = mean of all 15-min observations for that clock hour. Surplus = Total Availability - Demand. Reserve Margin % = Surplus / Demand x 100. Surplus and Reserve Margin % cells are coloured by reserve margin: red when negative, orange when below 5%, and green otherwise.

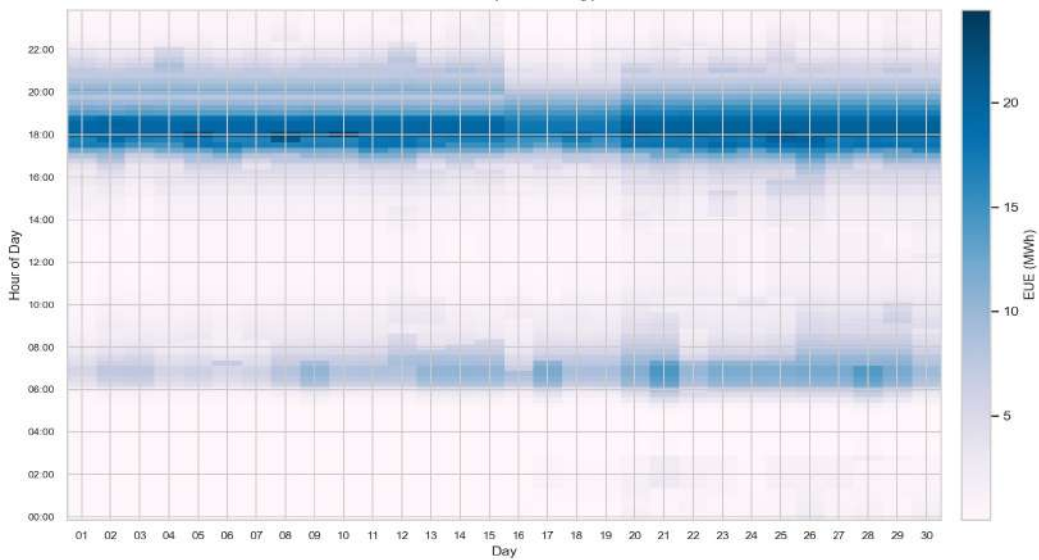
Mean LOLP (Hour × Day) — MN



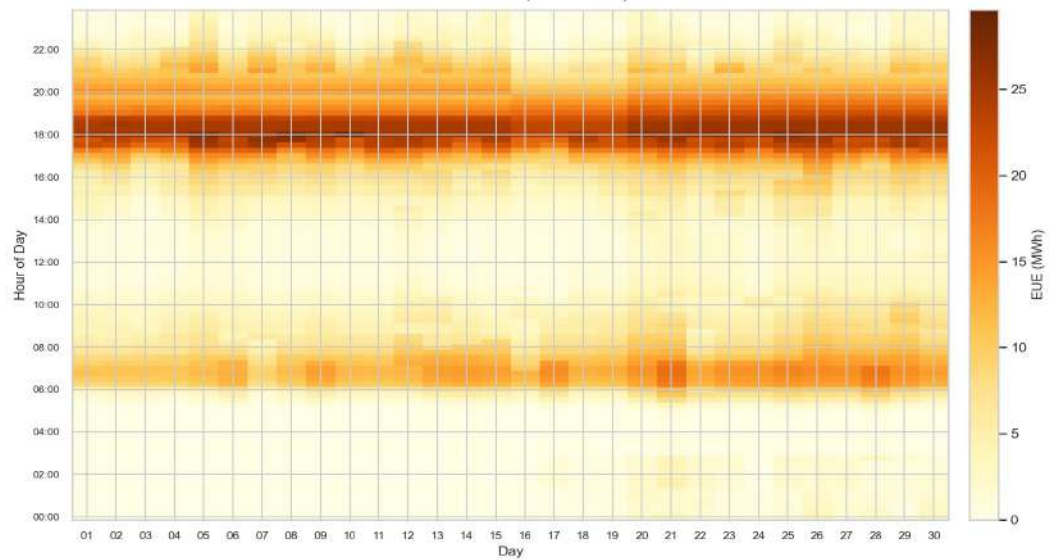
Worst-Case LOLP (DS28/GS21) — MN

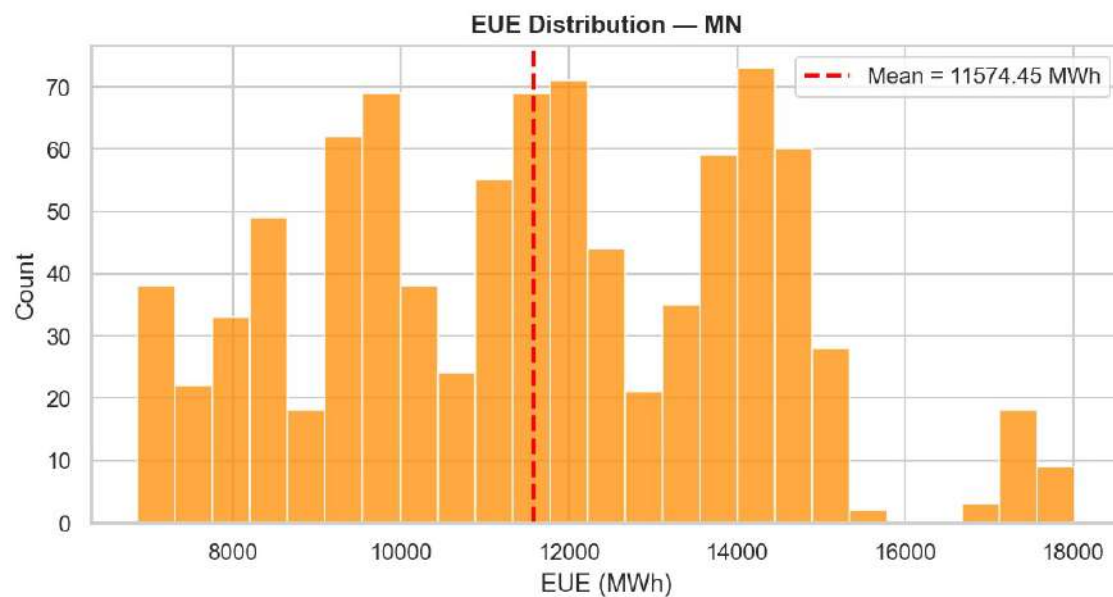
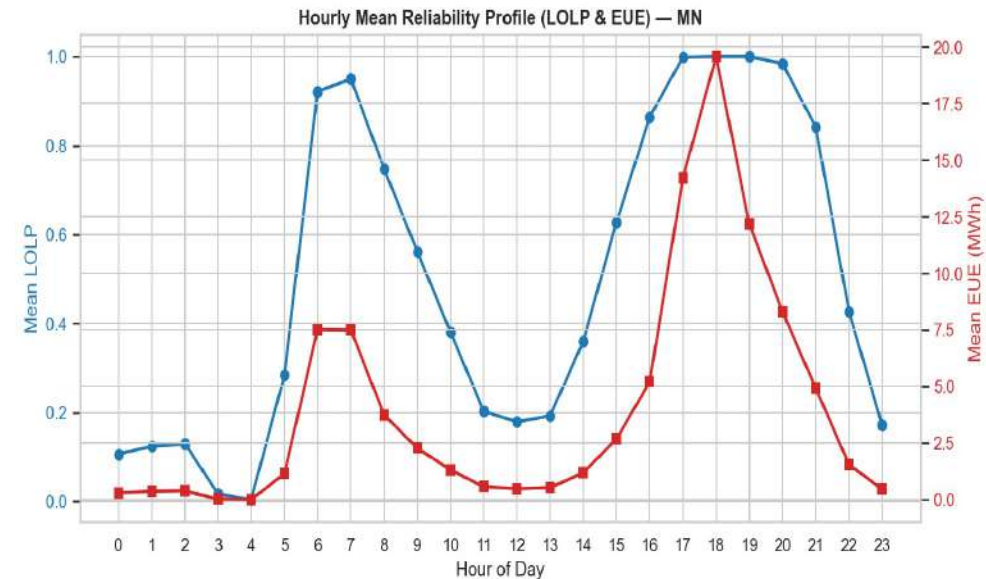
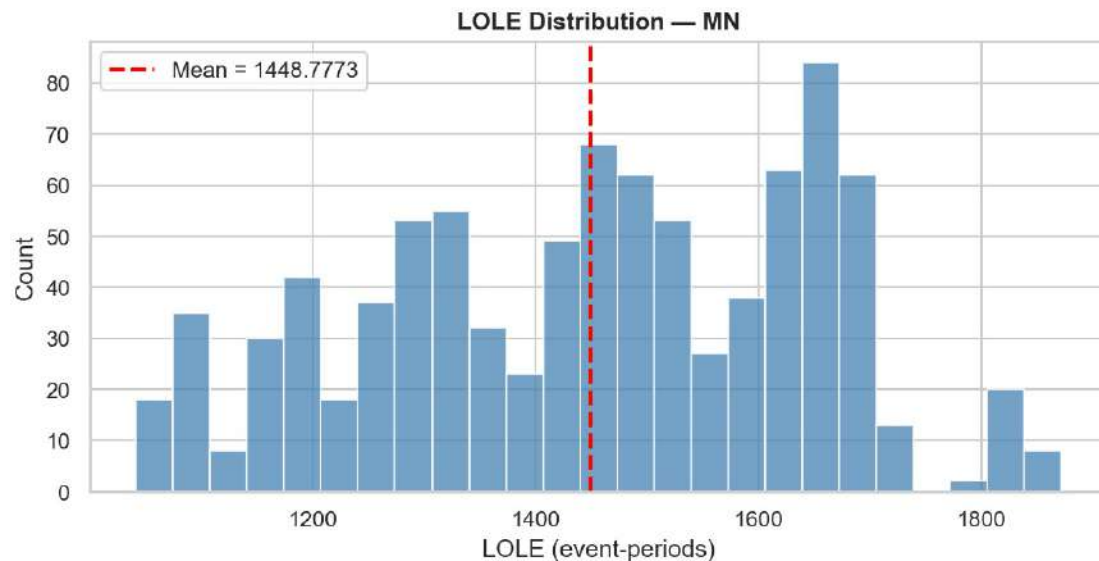


Mean EUE MWh (Hour × Day) — MN



Worst-Case EUE MWh (DS28/GS21) — MN





Key Findings : PRAS Results

Mean (LOLE = 1448.78 event-periods/month , ENS: 11.57 MU)

Worst (LOLE = 1871.57 event-periods , ENS : 18.018 MU)

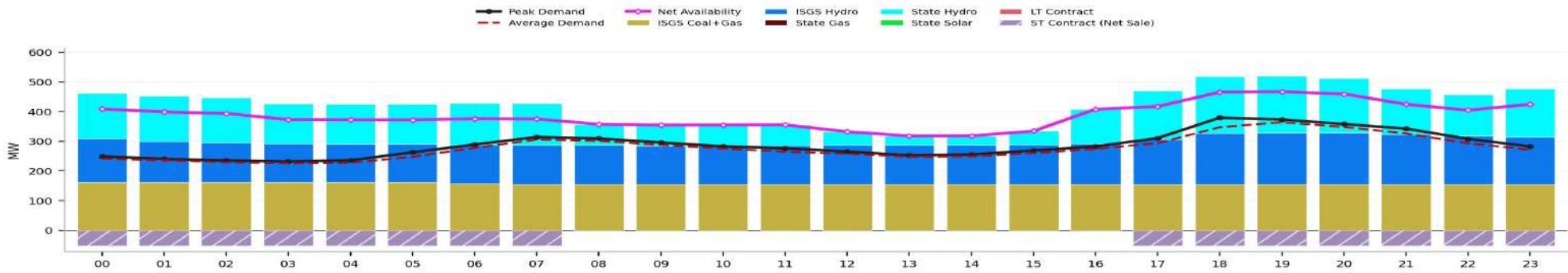
Shortages are highly probable during morning and evening peak hours throughout the month.

MONTHLY HOURLY DETERMINISTIC RESOURCE ADEQUACY — MEGHALAYA

September 2026 | Hourly source-wise availability based on monthly average of 15-minute data

Peak Demand: 380 MW (18:00-19:00) | Expected Minimum Surplus: 48 MW (08:00-09:00) | Min. Reserve Margin: +15.4% | Expected Average Surplus (18-22 Hrs): 108 MW | Deficit Hours: 0

Hourly Source-wise Resource Contribution and Demand (MW)

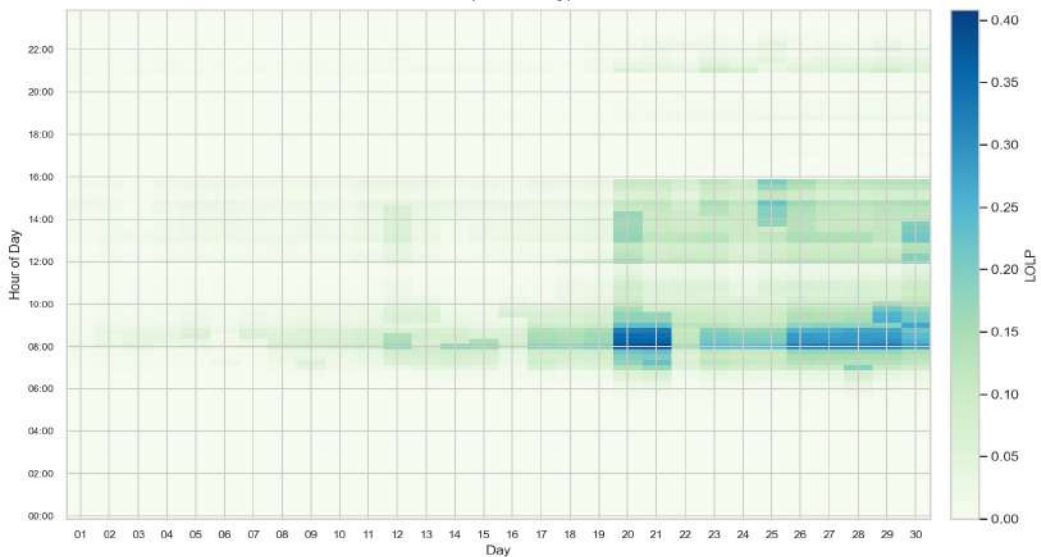


00:00-24:00 | RESOURCE ADEQUACY

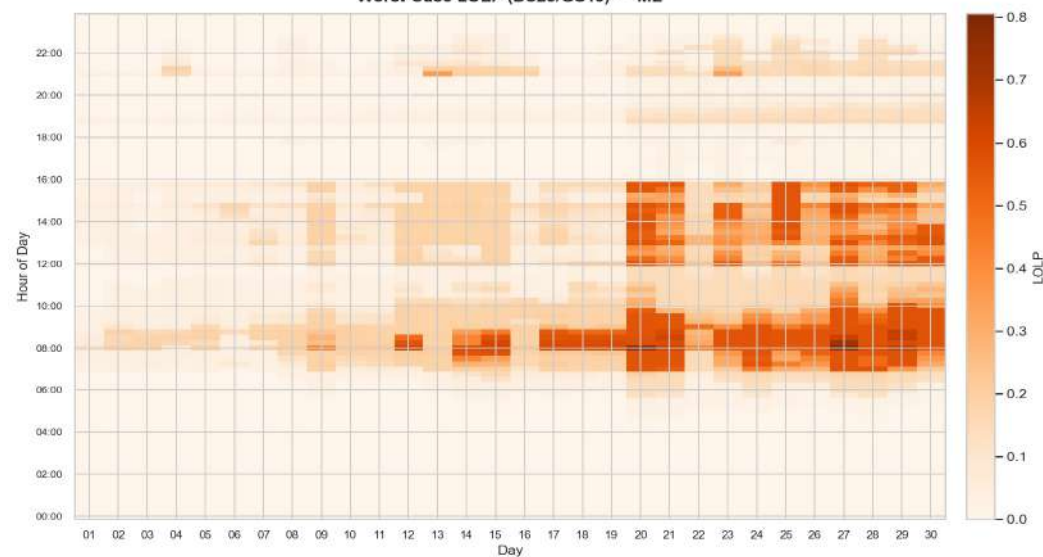
Parameter	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Peak Demand	249	241	235	232	236	263	289	314	310	296	283	276	265	252	256	269	283	311	380	373	358	343	308	282
Average Demand	241	236	229	227	228	248	278	306	302	287	275	265	258	248	249	260	274	294	347	364	348	326	293	271
ISGS Coal+Gas	161	161	161	161	162	162	157	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155
ISGS Hydro	149	139	133	131	129	129	130	131	132	130	130	130	131	132	132	134	137	151	172	173	173	168	164	160
State Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Hydro	152	152	152	134	134	134	142	142	70	70	70	70	46	31	31	46	116	164	192	192	184	154	139	163
State Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT Contract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST Contract	-53	-53	-53	-53	-53	-53	-53	-53	0	0	0	0	0	0	0	0	0	-53	-53	-53	-53	-53	-53	-53
Total Availability	409	399	394	373	372	372	376	375	357	355	355	355	332	318	318	334	408	417	466	467	460	425	405	425
Peak Surplus	+160	+159	+159	+141	+137	+110	+87	+61	+48	+59	+72	+79	+67	+65	+63	+66	+126	+107	+86	+94	+102	+82	+97	+142
Average Surplus	+168	+163	+165	+146	+145	+125	+99	+69	+56	+67	+80	+90	+75	+70	+69	+75	+134	+124	+118	+103	+112	+98	+112	+153
Peak Reserve Margir	+64.0%	+65.9%	+67.4%	+61.1%	+57.9%	+41.7%	+30.1%	+19.3%	+15.4%	+19.9%	+25.5%	+28.6%	+25.2%	+25.9%	+24.5%	+24.4%	+44.4%	+34.3%	+22.7%	+25.1%	+28.4%	+23.9%	+31.4%	+50.3%
Average Reserve Ma	+69.4%	+69.0%	+71.8%	+64.6%	+63.6%	+50.3%	+35.5%	+22.7%	+18.5%	+23.4%	+28.9%	+34.1%	+28.9%	+28.1%	+27.6%	+28.7%	+48.7%	+42.1%	+34.1%	+28.2%	+32.0%	+30.1%	+38.1%	+56.4%

Methodology: Peak demand = maximum 15-min demand within each clock hour during the month. Average demand and each availability source = mean of all 15-min observations for that clock hour. Surplus = Total Availability - Demand. Reserve Margin % = Surplus / Demand x 100. Surplus and Reserve Margin % cells are coloured by reserve margin: red when negative, orange when below 5%, and green otherwise.

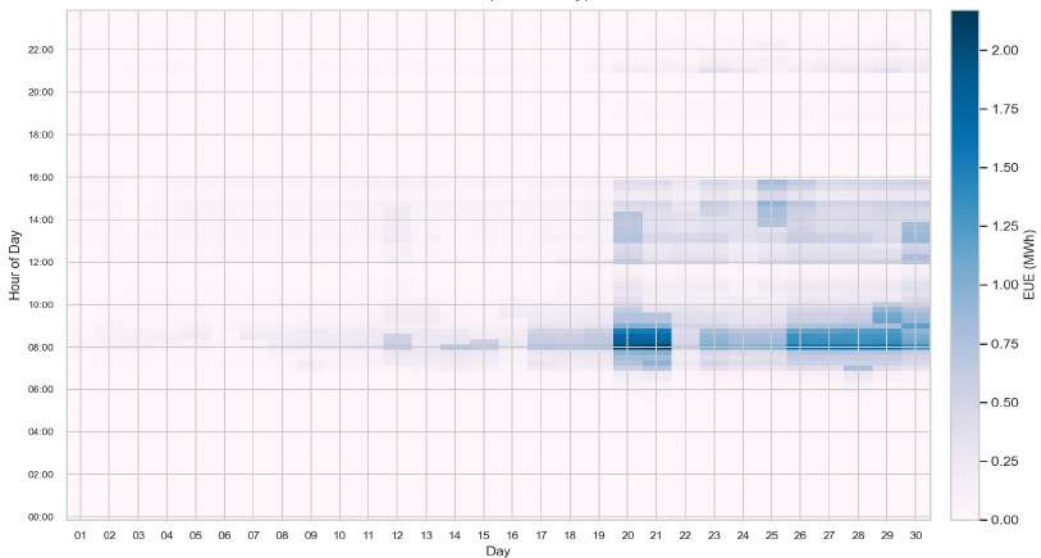
Mean LOLP (Hour × Day) — ME



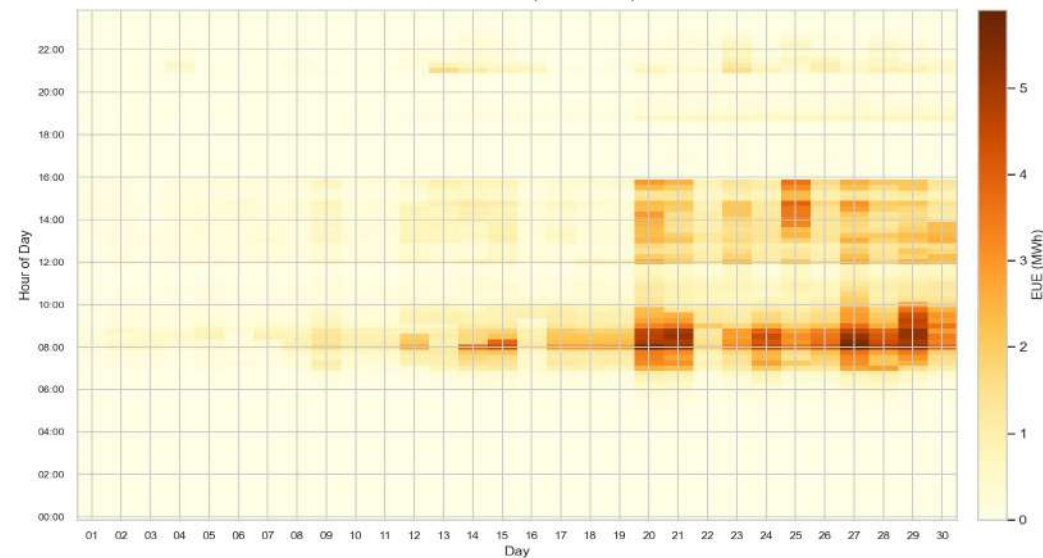
Worst-Case LOLP (DS28/GS13) — ME

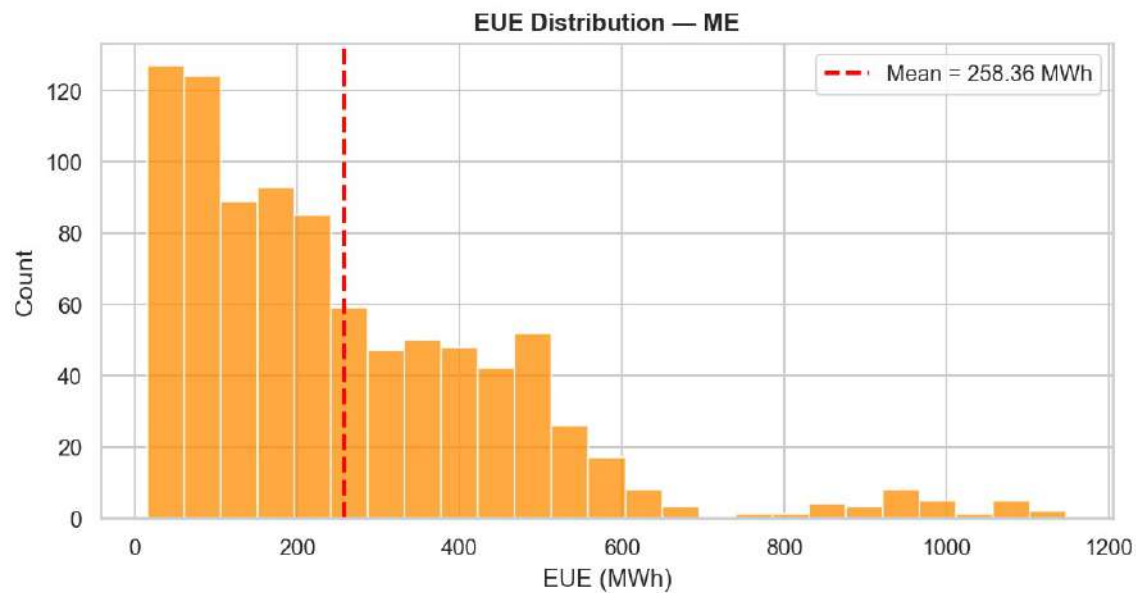
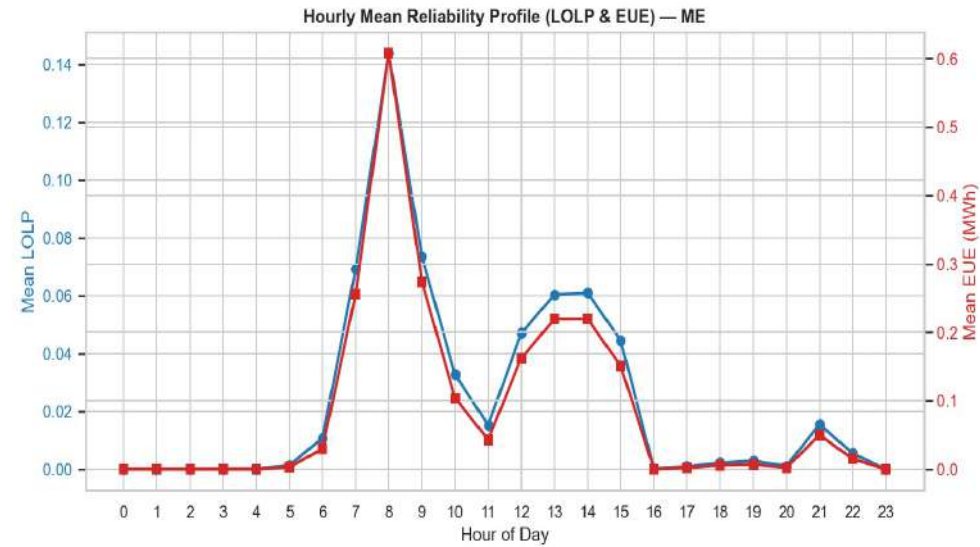
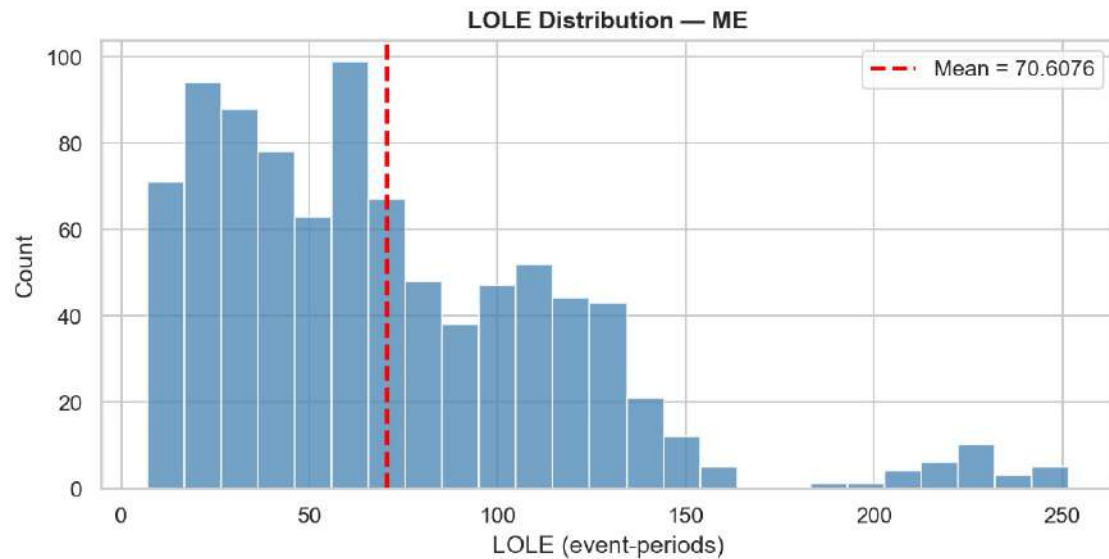


Mean EUE MWh (Hour × Day) — ME



Worst-Case EUE MWh (DS28/GS13) — ME





Key Findings : PRAS Results

Mean (LOLE = 70.61 event-periods/month , ENS: 0.26 MU)

Worst (LOLE = 251.68 event-periods , ENS : 1.13 MU)

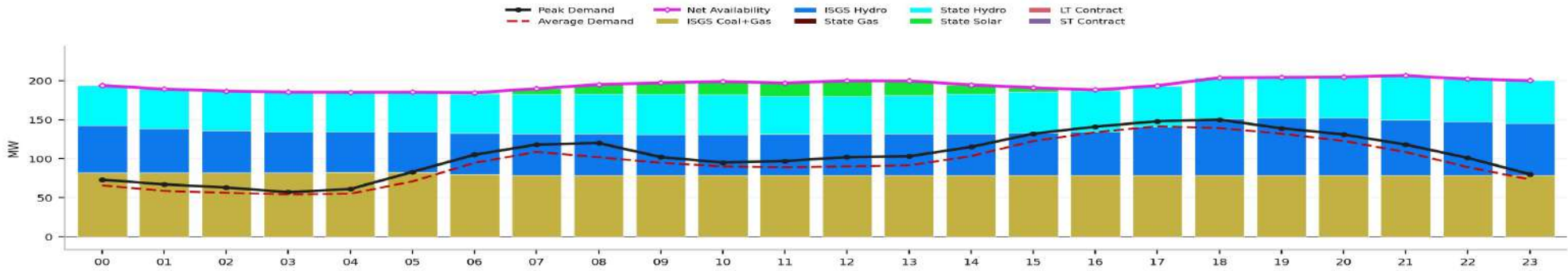
Predominantly in surplus.

MONTHLY HOURLY DETERMINISTIC RESOURCE ADEQUACY — MIZORAM

September 2026 | Hourly source-wise availability based on monthly average of 15-minute data

Peak Demand: 150 MW (18:00-19:00) | Expected Minimum Surplus: 46 MW (17:00-18:00) | Min. Reserve Margin: +30.8% | Expected Average Surplus (18-22 Hrs): 79 MW | Deficit Hours: 0

Hourly Source-wise Resource Contribution and Demand (MW)



00:00-24:00 | RESOURCE ADEQUACY

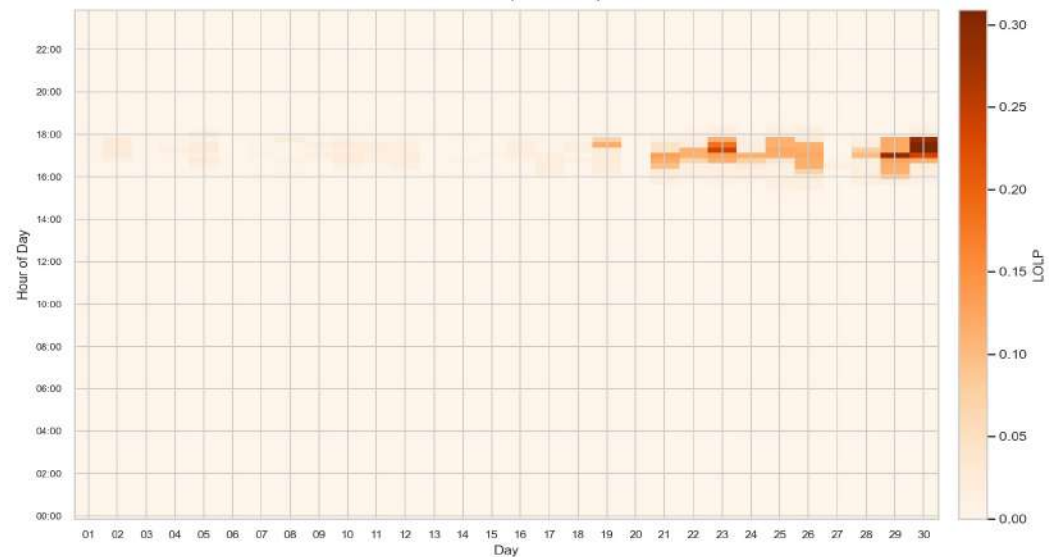
Parameter	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Peak Demand	73	67	63	57	61	83	105	118	120	102	95	97	102	103	115	132	141	148	150	139	131	118	101	80
Average Demand	66	59	56	54	55	71	95	109	102	95	90	89	90	91	103	122	134	142	139	132	123	108	89	73
ISGS Coal+Gas	82	82	82	82	83	83	80	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
ISGS Hydro	61	56	54	52	52	52	52	53	53	52	52	52	53	53	53	54	56	62	72	73	73	71	68	66
State Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Hydro	51	51	51	51	51	51	51	51	51	52	51	48	48	49	51	53	52	52	53	52	53	57	55	55
State Solar	0	0	0	0	0	0	2	7	12	15	17	17	20	19	11	6	1	0	0	0	0	0	0	0
LT Contract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST Contract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Availability	194	189	187	185	185	185	185	190	195	197	199	197	200	200	195	191	188	194	204	204	205	207	202	200
Peak Surplus	+121	+122	+124	+128	+124	+102	+80	+72	+75	+95	+104	+100	+98	+97	+80	+59	+47	+46	+54	+65	+74	+89	+101	+120
Average Surplus	+128	+131	+131	+131	+130	+114	+90	+81	+93	+103	+109	+108	+110	+108	+91	+69	+54	+52	+65	+72	+82	+98	+113	+127
Peak Reserve Margir	+165.6%	+182.3%	+196.3%	+225.2%	+203.5%	+123.2%	+75.9%	+60.8%	+62.5%	+93.4%	+109.2%	+103.0%	+96.0%	+93.9%	+69.2%	+44.7%	+33.5%	+30.8%	+35.9%	+47.1%	+56.4%	+75.0%	+100.2%	+150.1%
Average Reserve Ma	+194.7%	+222.7%	+233.0%	+242.4%	+236.9%	+161.5%	+95.2%	+74.7%	+91.5%	+108.4%	+120.6%	+121.4%	+121.8%	+118.6%	+88.5%	+56.0%	+40.7%	+36.7%	+46.4%	+54.9%	+66.9%	+90.4%	+126.8%	+172.3%

Methodology: Peak demand = maximum 15-min demand within each clock hour during the month. Average demand and each availability source = mean of all 15-min observations for that clock hour. Surplus = Total Availability - Demand. Reserve Margin % = Surplus / Demand x 100. Surplus and Reserve Margin % cells are coloured by reserve margin: red when negative, orange when below 5%, and green otherwise.

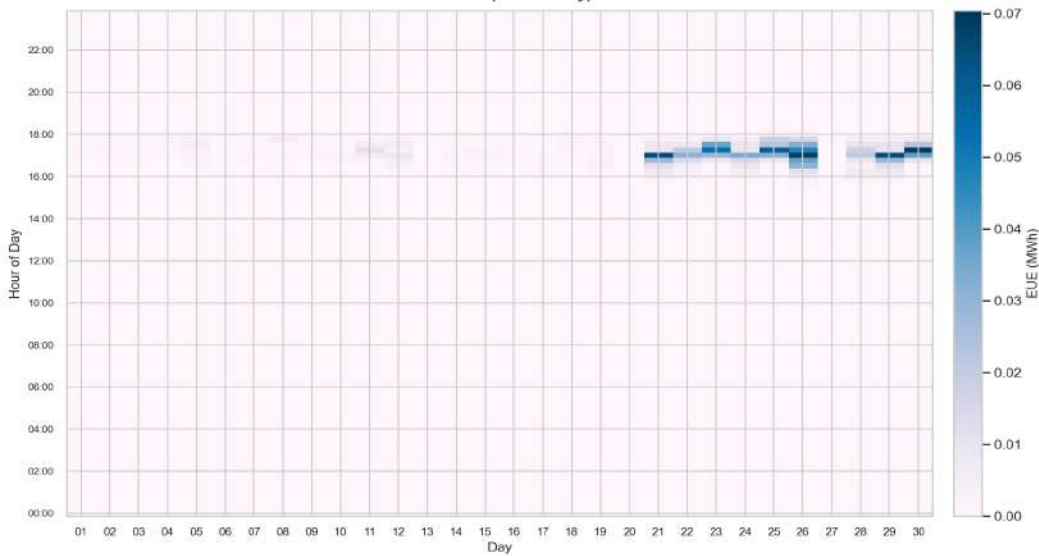
Mean LOLP (Hour × Day) — MZ



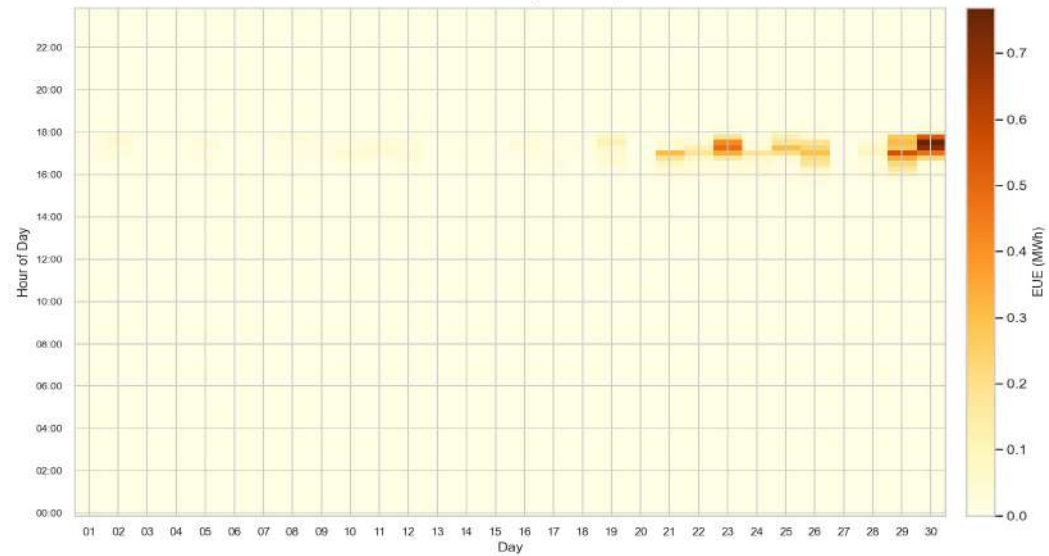
Worst-Case LOLP (DS28/GS2) — MZ

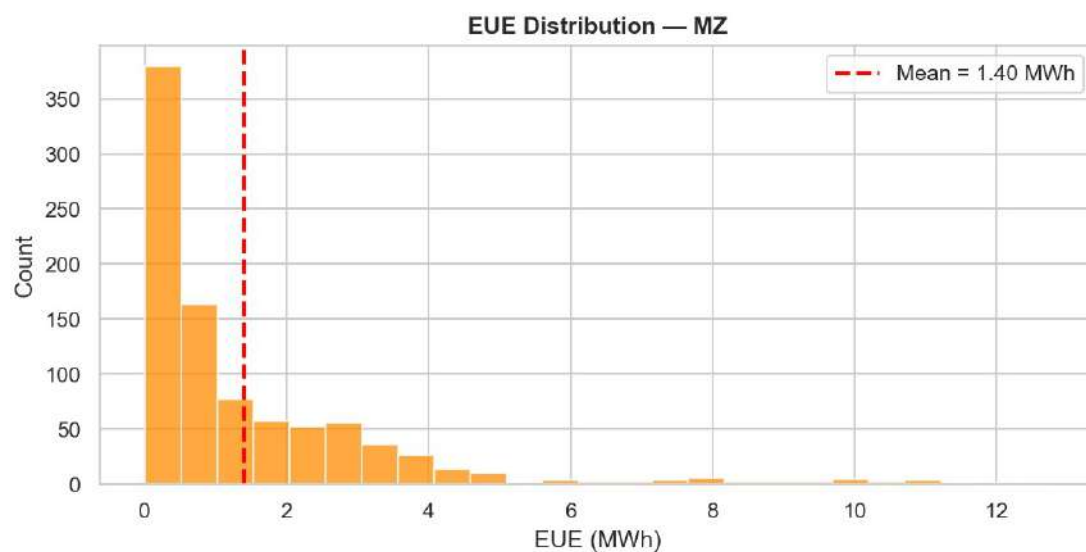
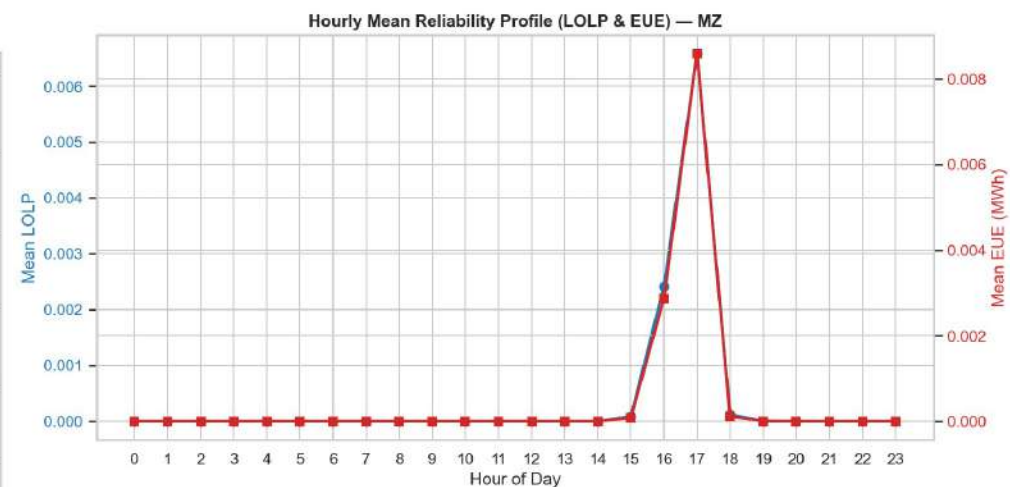
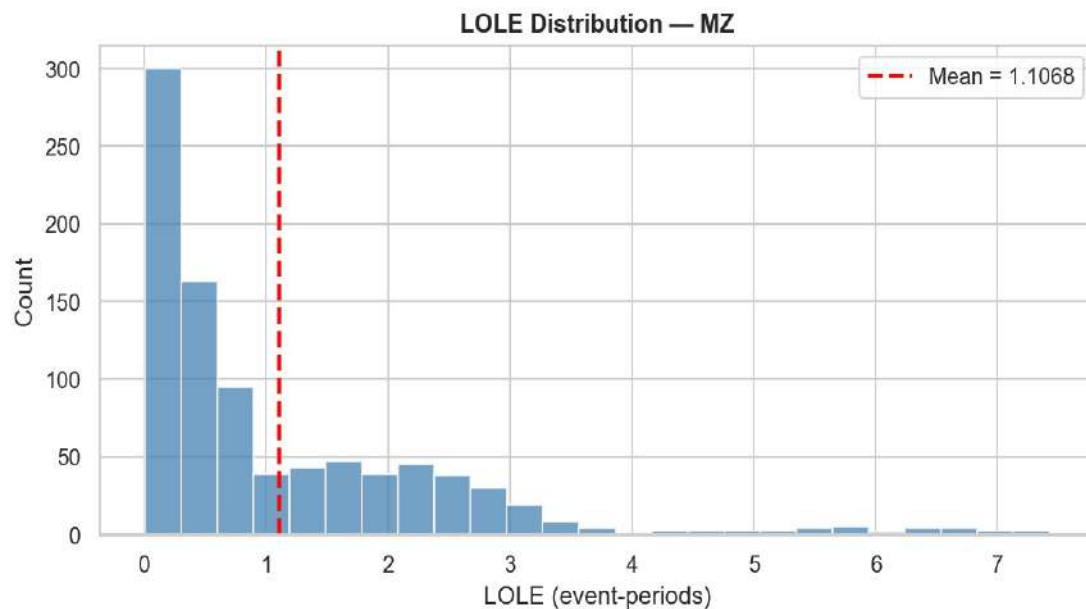


Mean EUE MWh (Hour × Day) — MZ



Worst-Case EUE MWh (DS28/GS2) — MZ





Key Findings : PRAS Results

Mean (LOLE = 1.11 event-periods/month , ENS: 0.001 MU)

Worst (LOLE = 7.43 event-periods , ENS : 0.001 MU)

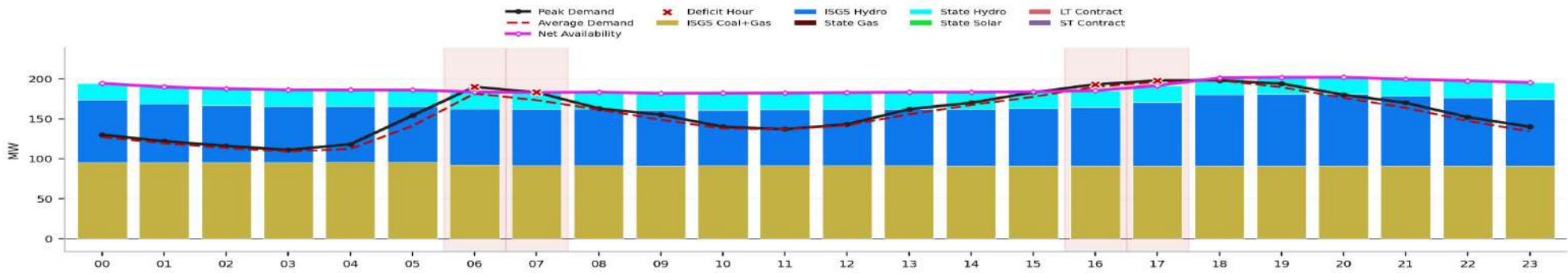
Predominantly in surplus.

MONTHLY HOURLY DETERMINISTIC RESOURCE ADEQUACY — NAGALAND

September 2026 | Hourly source-wise availability based on monthly average of 15-minute data

Peak Demand: 198 MW (17:00-18:00) | Expected Maximum Deficit: 8 MW (16:00-17:00) | Min. Reserve Margin: -4.0% | Expected Average Surplus (18-22 Hrs): 19 MW | Deficit Hours: 4

Hourly Source-wise Resource Contribution and Demand (MW)

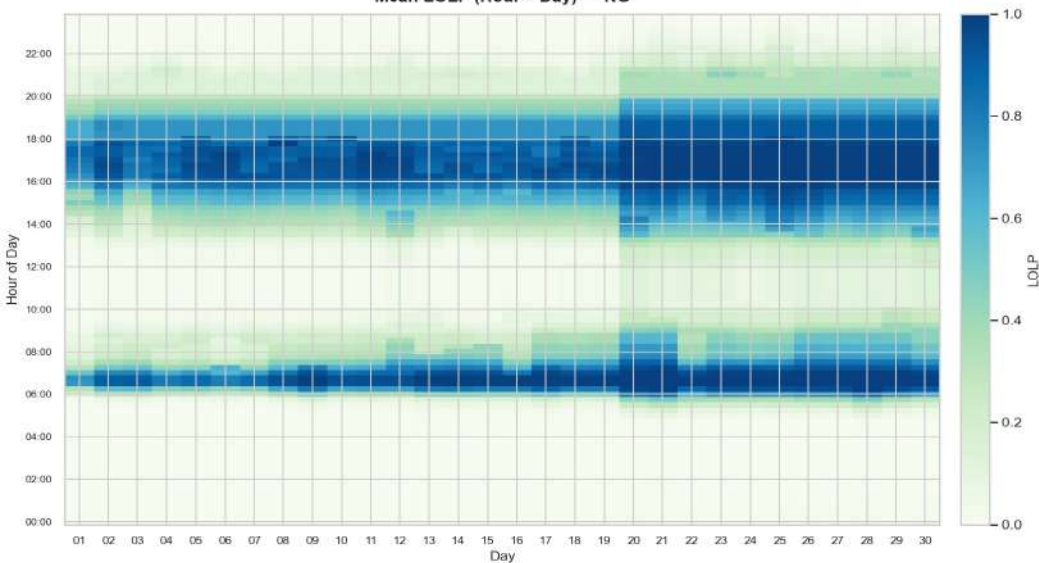


00:00-24:00 | RESOURCE ADEQUACY

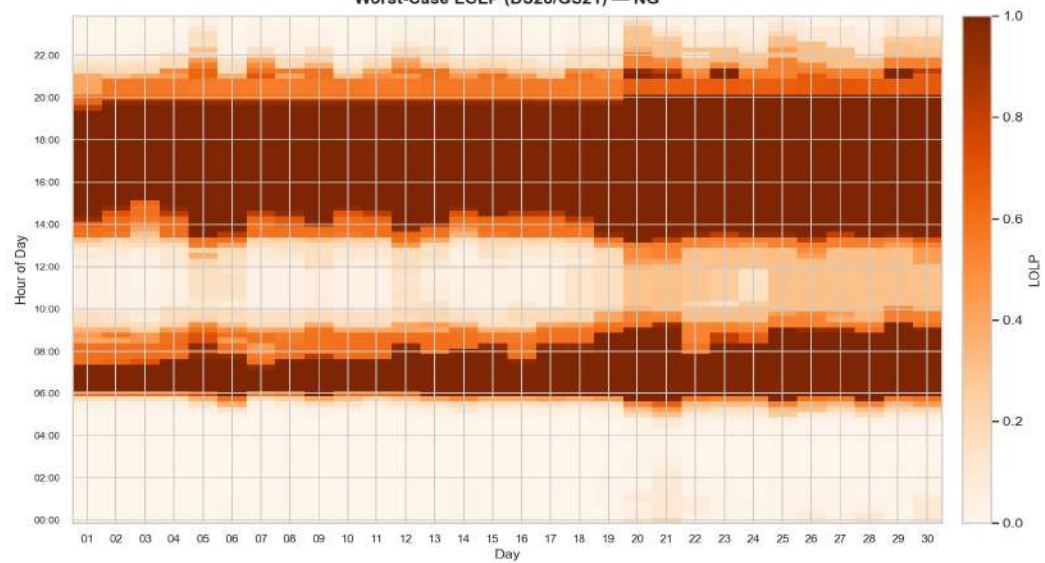
Parameter	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Peak Demand	130	122	116	111	118	154	190	183	163	155	140	137	143	162	170	183	193	198	198	194	180	170	152	140
Average Demand	127	119	113	109	112	141	182	173	162	149	138	137	142	156	167	177	190	196	198	190	176	164	147	134
ISGS Coal+Gas	95	95	95	95	95	95	92	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
ISGS Hydro	79	74	72	70	70	70	70	71	71	70	70	70	71	71	71	72	74	80	89	90	90	88	86	84
State Gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Hydro	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
State Solar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LT Contract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ST Contract	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Availability	194	190	188	186	186	186	183	183	183	182	182	182	183	183	183	184	185	192	201	202	202	200	197	196
Peak Surplus	+64	+68	+72	+75	+68	+32	-7	-0	+20	+27	+42	+45	+40	+21	+13	+1	-8	-6	+3	+8	+22	+30	+45	+56
Average Surplus	+67	+71	+74	+77	+74	+45	+2	+10	+22	+33	+44	+45	+41	+28	+16	+6	-5	-4	+3	+12	+26	+36	+50	+61
Peak Reserve Margir	+49.5%	+55.6%	+61.7%	+67.8%	+57.8%	+20.8%	-3.4%	-0.1%	+12.4%	+17.4%	+30.1%	+33.1%	+27.8%	+13.0%	+7.7%	+0.4%	-4.0%	-3.3%	+1.6%	+4.0%	+12.2%	+17.4%	+29.9%	+39.7%
Average Reserve Ma	+52.7%	+59.2%	+65.6%	+70.9%	+65.9%	+32.0%	+1.1%	+5.5%	+13.4%	+22.3%	+32.3%	+33.1%	+28.9%	+17.7%	+9.5%	+3.6%	-2.5%	-2.3%	+1.6%	+6.5%	+14.6%	+21.9%	+34.1%	+45.7%

Methodology: Peak demand = maximum 15-min demand within each clock hour during the month. Average demand and each availability source = mean of all 15-min observations for that clock hour. Surplus = Total Availability - Demand. Reserve Margin % = Surplus / Demand x 100. Surplus and Reserve Margin % cells are coloured by reserve margin: red when negative, orange when below 5%, and green otherwise.

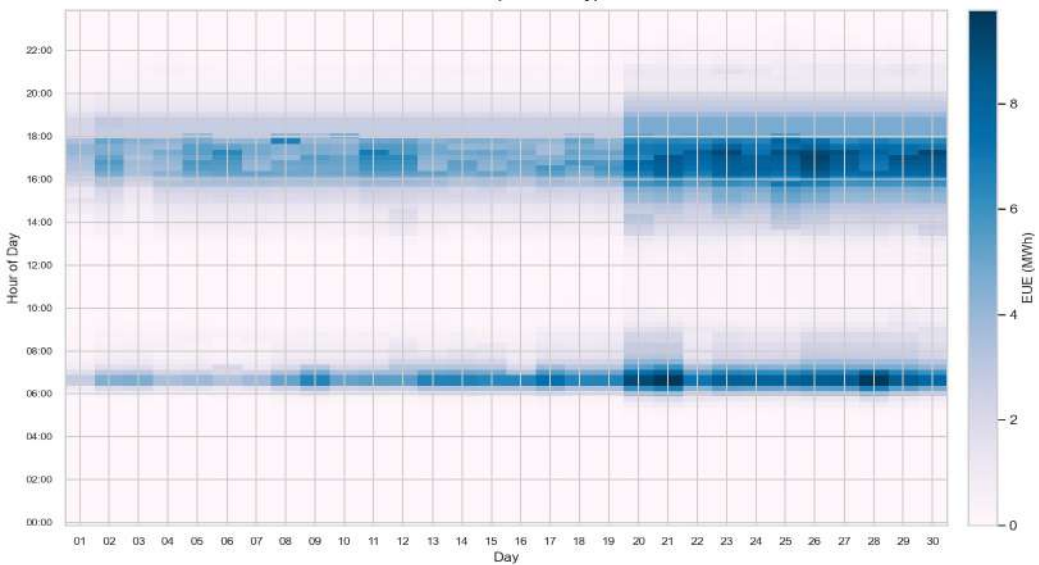
Mean LOLP (Hour × Day) — NG



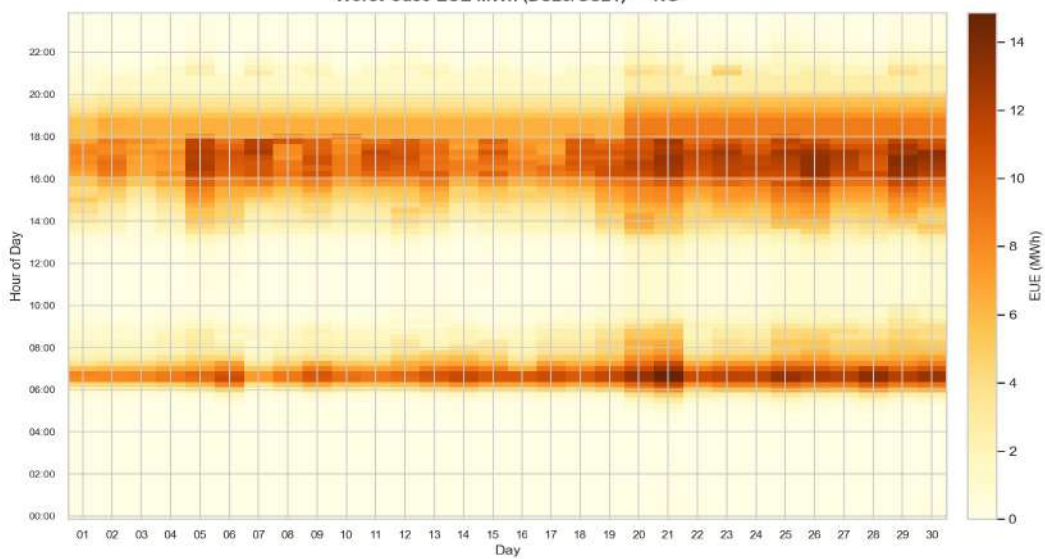
Worst-Case LOLP (DS28/GS21) — NG

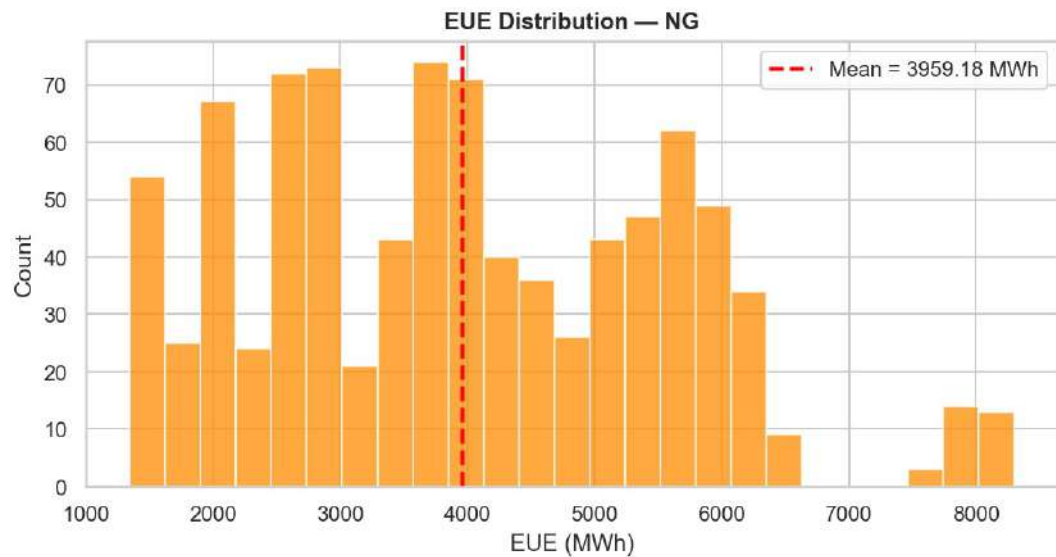
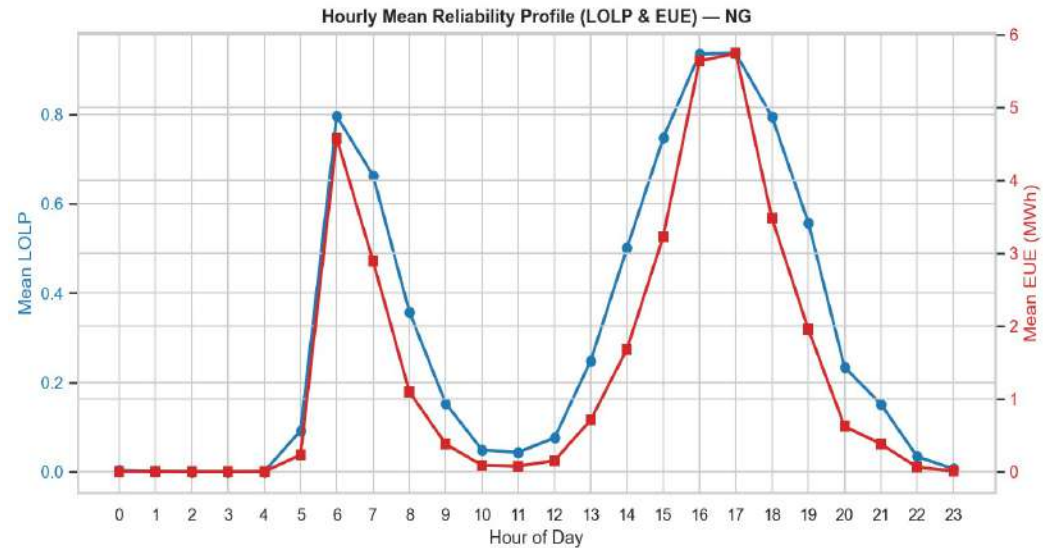
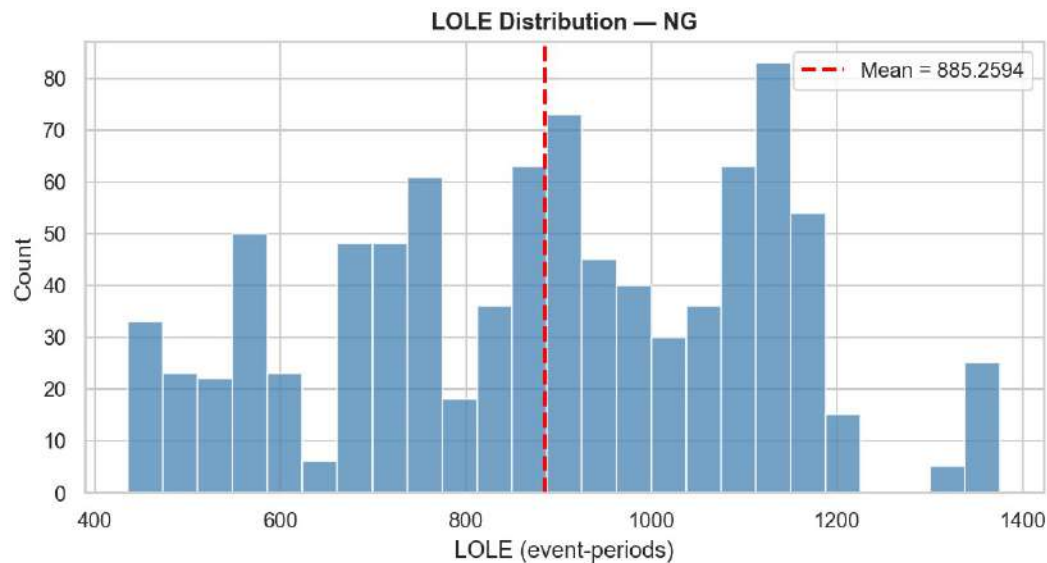


Mean EUE MWh (Hour × Day) — NG



Worst-Case EUE MWh (DS28/GS21) — NG





Key Findings : PRAS Results

Mean (LOLE = 885.26 event-periods/month , ENS: 3.96 MU)

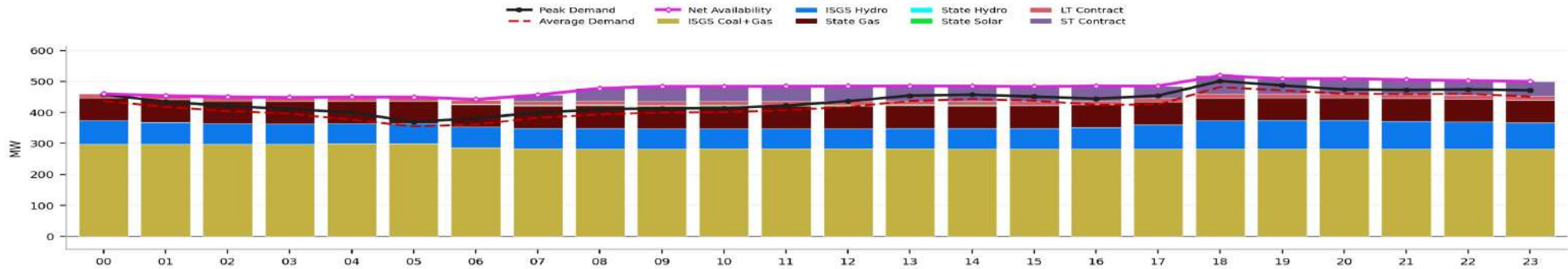
Worst (LOLE = 1376.08 event-periods , ENS : 8.23 MU)
Shortage expected during morning and evening peak hours.

MONTHLY HOURLY DETERMINISTIC RESOURCE ADEQUACY — TRIPURA

September 2026 | Hourly source-wise availability based on monthly average of 15-minute data

Peak Demand: 501 MW (18:00-19:00) | Expected Minimum Surplus: 2 MW (00:00-01:00) | Min. Reserve Margin: +0.4% | Expected Average Surplus (18-22 Hrs): 43 MW | Deficit Hours: 0

Hourly Source-wise Resource Contribution and Demand (MW)

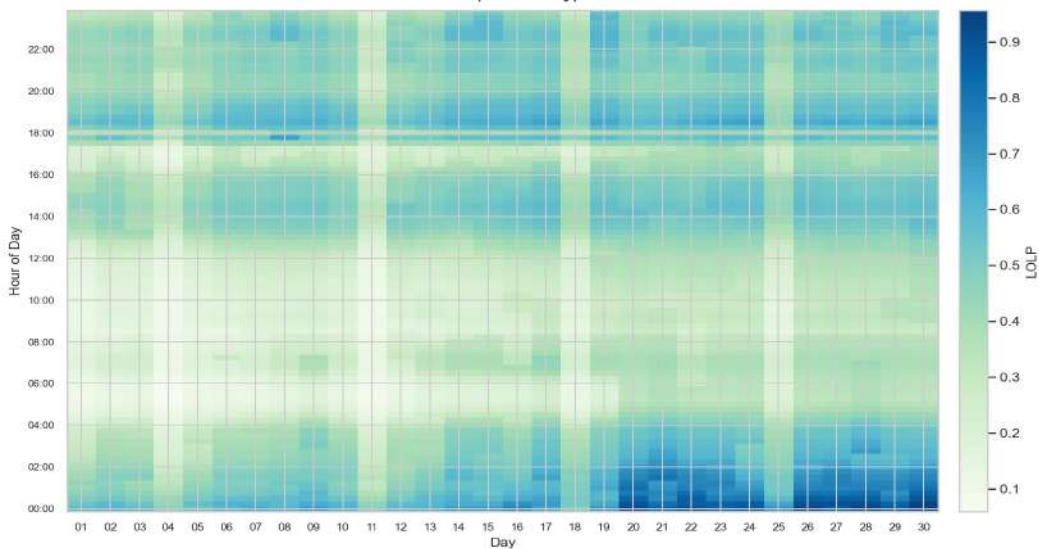


00:00-24:00 | RESOURCE ADEQUACY

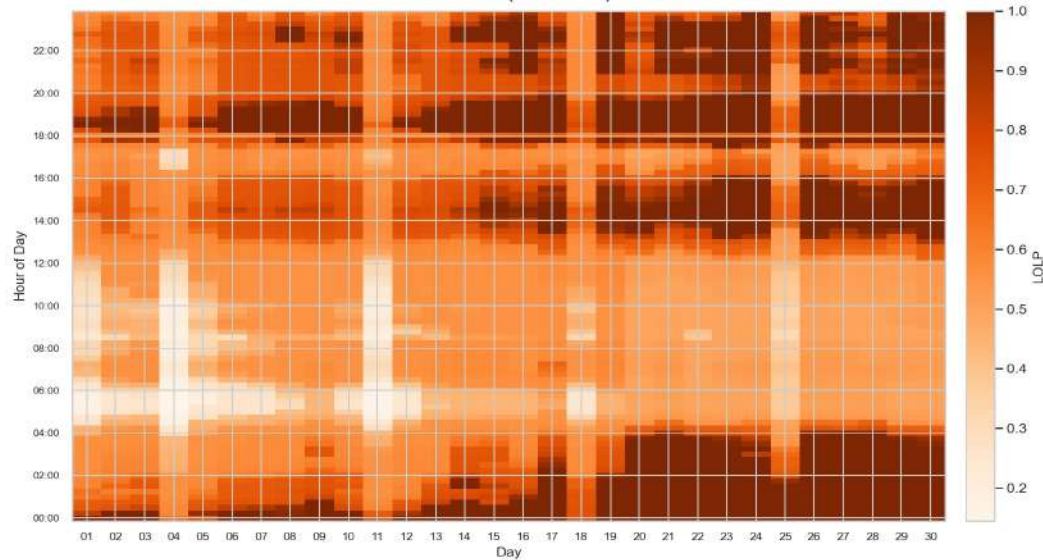
Parameter	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Peak Demand	458	434	421	411	400	369	381	399	410	413	414	422	436	454	457	451	444	454	501	487	474	472	474	471
Average Demand	437	418	404	396	376	355	361	383	393	399	400	407	418	437	443	437	425	425	482	471	460	459	459	451
ISGS Coal+Gas	297	297	297	297	299	299	287	283	282	282	283	283	283	283	282	282	282	282	282	282	282	282	282	282
ISGS Hydro	77	71	67	65	64	64	65	66	67	65	65	65	66	66	67	68	70	79	92	92	93	90	87	84
State Gas	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
State Hydro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Solar	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0
LT Contract	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
ST Contract	0	0	0	0	0	0	1	19	41	48	48	48	48	48	48	48	48	39	60	48	48	48	48	48
Total Availability	460	453	450	448	449	449	442	456	478	484	484	484	485	485	485	483	485	485	519	509	509	506	503	500
Peak Surplus	+2	+19	+29	+37	+49	+80	+61	+57	+68	+71	+70	+62	+49	+31	+28	+32	+41	+31	+18	+22	+35	+34	+29	+29
Average Surplus	+23	+36	+46	+52	+73	+95	+81	+73	+85	+84	+84	+77	+67	+49	+42	+46	+61	+59	+37	+38	+49	+47	+43	+49
Peak Reserve Margin	+0.4%	+4.5%	+6.9%	+9.1%	+12.3%	+21.7%	+16.0%	+14.2%	+16.6%	+17.1%	+16.9%	+14.8%	+11.2%	+6.9%	+6.1%	+7.1%	+9.3%	+6.8%	+3.6%	+4.5%	+7.3%	+7.1%	+6.1%	+6.2%
Average Reserve Margin	+5.3%	+8.6%	+11.4%	+13.2%	+19.5%	+26.7%	+22.4%	+19.1%	+21.5%	+21.1%	+20.9%	+19.0%	+16.0%	+11.2%	+9.4%	+10.5%	+14.2%	+14.0%	+7.7%	+8.0%	+10.5%	+10.2%	+9.5%	+10.9%

Methodology: Peak demand = maximum 15-min demand within each clock hour during the month. Average demand and each availability source = mean of all 15-min observations for that clock hour. Surplus = Total Availability - Demand. Reserve Margin % = Surplus / Demand x 100. Surplus and Reserve Margin % cells are coloured by reserve margin: red when negative, orange when below 5%, and green otherwise.

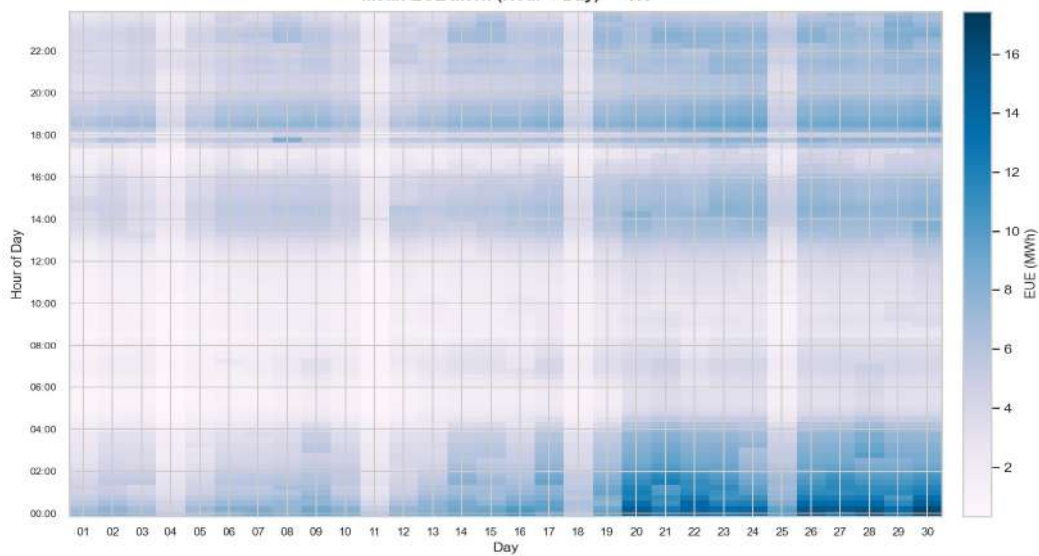
Mean LOLP (Hour × Day) — TR



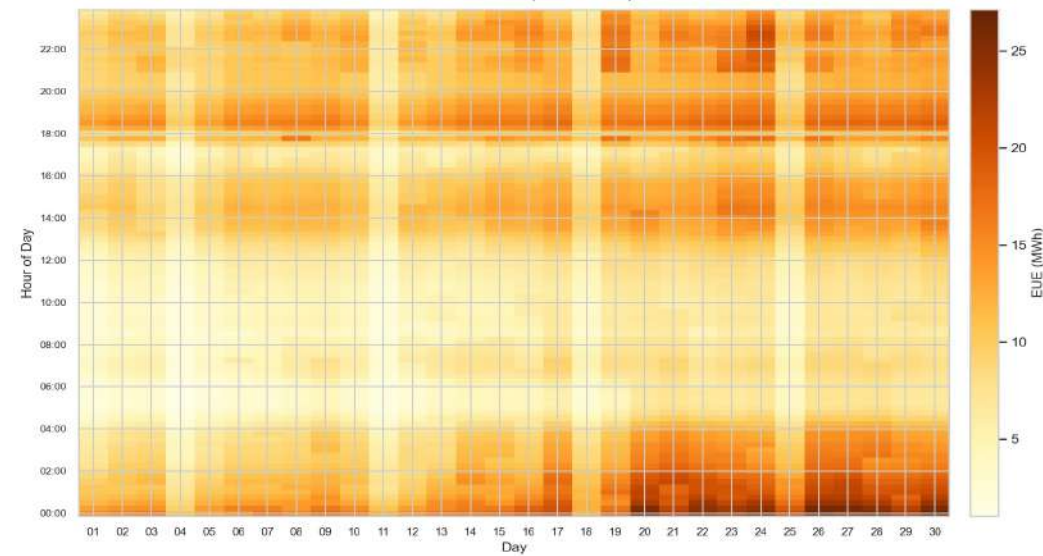
Worst-Case LOLP (DS28/GS23) — TR

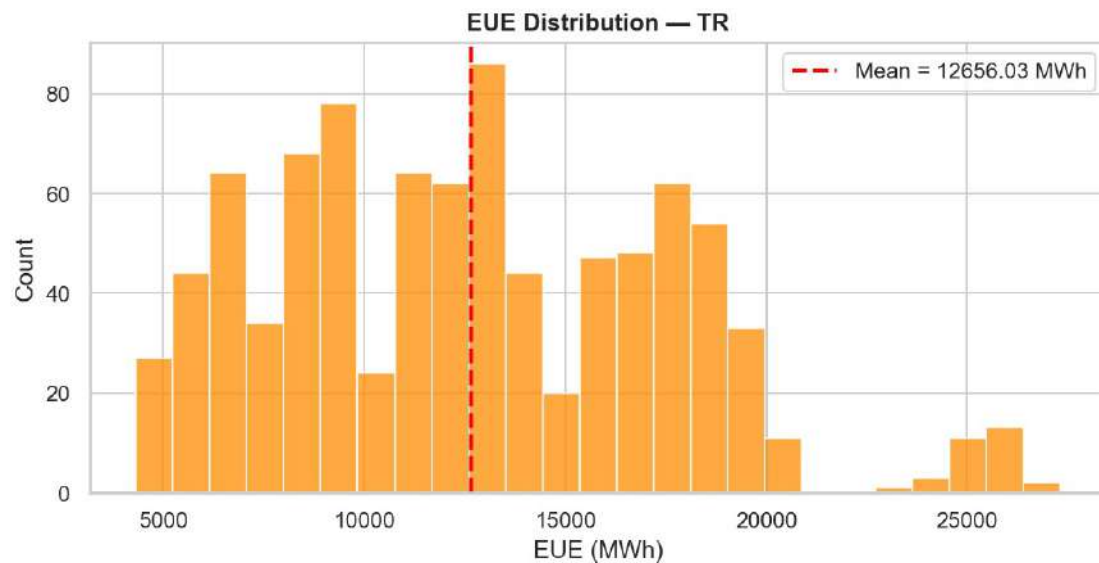
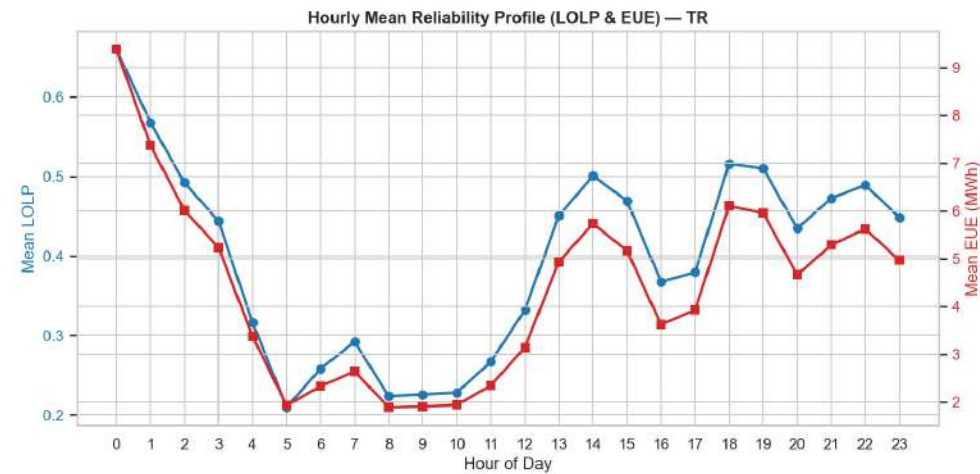
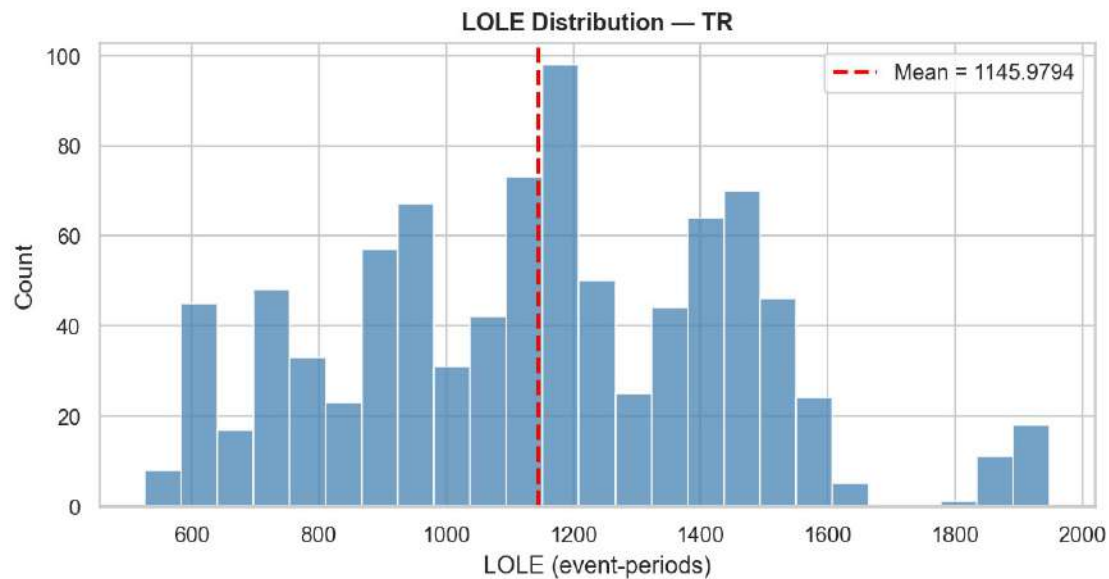


Mean EUE MWh (Hour × Day) — TR



Worst-Case EUE MWh (DS28/GS23) — TR





Key Findings : PRAS Results

Mean (LOLE = 1145.98 event-periods/month , ENS: 12.656 MU)

Worst (LOLE = 1947.72 event-periods , ENS : 27.32 MU)

Shortage expected during peak and night hours.