



भारत सरकार Government of India

विद्युत मंत्रालय Ministry of Power

उत्तर पूर्वी क्षेत्रीय विद्युत समिति

North Eastern Regional Power Committee

एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लोंग-७९३००६, मेघालय

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No. NERPC/SE (O)/OCC/2021/ **3053-3089**

Dated: July 05, 2021

To,

1. Managing Director, AEGCL, Bijuli Bhawan, Guwahati – 781 001
2. Managing Director, APDCL, Bijuli Bhawan, Guwahati – 781 001
3. Managing Director, APGCL, Bijuli Bhawan, Guwahati – 781 001
4. Director (Generation), Me. PGCL, Lumjingshai, Short Round Road, Shillong – 793 001
5. Director (Distribution), Me. ECL, Lumjingshai, Short Round Road, Shillong – 793 001
6. Director (Transmission), Me. PTCL, Lumjingshai, Short Round Road, Shillong – 793 001
7. Managing Director, MSPDCL, Secure Office Bldg. Complex, South Block, Imphal – 795 001
8. Managing Director, MSPCL, Electricity Complex, Keishampat, Imphal – 795 001
9. Director (Tech.), TSECL, Banamalipur, Agartala -799 001.
10. Director (Generation), TPGCL, Banamalipur, Agartala -799 001.
11. Chief Engineer (WE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
12. Chief Engineer (EE Zone), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
13. Chief Engineer (TP&MZ), Department of Power, Govt. of Arunachal Pradesh, Itanagar- 791111
14. Engineer-in-Chief (P&E), Department of Power, Govt. of Mizoram, Aizawl – 796 001
15. Engineer-in-Chief (P), Department of Power, Govt. of Nagaland, Kohima – 797 001
16. CGM, (LDC), SLDC Complex, AEGCL, Kahilipara, Guwahati-781 019
17. Group General Manager, NTPC, Bongaigoan Thermal Power Project, P.O. Salakati, Kokrajhar- 783369
18. ED, NERTS, PGCIL, Dongtieh-Lower Nongrah, Lapalang, Shillong -793 006
19. ED (O&M), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
20. ED (Commercial), NEEPCO Ltd., Brookland Compound, Lower New Colony, Shillong-793003
21. ED (O&M), NHPC, NHPC Office Complex, Sector-33, Faridabad, Haryana-121003
22. Vice President (Plant), OTPC, Badarghat Complex, Agartala, Tripura - 799014
23. ED, NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong -793 006
24. Chief Engineer, GM Division, Central Electricity Authority, New Delhi – 110066
25. Chief Engineer (NPC), GM Division, Central Electricity Authority, New Delhi – 110066

Sub: Minutes of 179th OCC Meeting.

Sir/Madam,

Please find enclosed herewith the minutes of 179th OCC Meeting held at NERPC's Conference Hall, Shillong on the **18th June, 2021** for your kind information and necessary action. The minute is also available on the website of NERPC, **www.nerpc.nic.in**.

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

Encl: As above

भवदीय / Yours faithfully,

बी. लिंगखोइ

बि. लिंगखोइ / B. Lyngkhoi

निदेशक / **Director(O)**

Copy to:

1. CGM, AEGCL, Bijuli Bhawan, Guwahati – 781001
2. CGM, APGCL, Bijuli Bhawan, Guwahati – 781001
3. CGM, DISCOM, Bijuli Bhawan, Guwahati – 781001
4. Head of SLDC, MeECL, Lumjingshai, SR Road, Umjarain, Shillong – 793022
5. Head of SLDC, Dept. of Power, Govt. of Arunachal Pradesh, Itanagar – 791111
6. Head of SLDC, Dept. of Power, Govt. of Nagaland, Dimapur – 797103
7. Head of SLDC, MSPCL, Imphal – 795001
8. Head of SLDC, P&E Deptt. Govt. of Mizoram, Aizawl – 796 001
9. Head of SLDC, TSECL, Agartala – 799001
10. Chief Engineer(Elect), Loktak HEP, Vidyut Vihar, Kom Keirap, Manipur- 795124
11. DGM (O&M), OTPC, Badarghat Complex, Agartala, Tripura – 799014
12. Director, NETC, 1st Floor, Corporation Tower, AMBIS Mall Complex, NH-8, Gurgoan – 122001.

वी. लिंगशेखर
निदेशक / Director

North Eastern Regional Power Committee

MINUTES OF THE 179th OPERATION COORDINATION

SUB-COMMITTEE MEETING OF NERPC

Date : 18/06/2021 (Friday)
Time : 10:30 hrs
Venue : NERPC Conference Hall, Shillong.

The List of Participants in the 179th OCC Meeting is attached at **Annexure – I**

Shri A.K. Thakur, Member Secretary, NERPC welcomed the participants to the 179th OCC meeting. At the very outset he thanked the members for attending the meeting over VC and on behalf of the forum wished a speedy recovery for all COVID infected members. He requested all the members to actively participate in the discussion for fruitful deliberations.

Thereafter Member Secretary requested Sh. B. Lyngkhoi, Director(O&P), NERPC to take up the agenda items for discussion.

A. CONFIRMATION OF MINUTES

**CONFIRMATION OF MINUTES OF 178th MEETING OF OPERATION COORDINATION
SUB-COMMITTEE OF NERPC.**

The minutes of 178th meeting of Operation Sub-committee held on 18th June, 2021 at Guwahati were circulated vide letter No. NERPC/SE (O)/OCC/2019/2674-2711 dated 04th June, 2021.

The Sub-committee confirmed the minutes of 178th OCCM of NERPC as no comments/observations were received from the constituents.

ITEMS FOR DISCUSSION

B.1. Ensuring Reliable Power Supply and redundancy of power connected to oxygen plants and sharing details of oxygen plants in each state:

Director(O&P), NERPC informed that only Assam, Manipur and Nagaland have been submitting the Status of Power supply to oxygen plants in their states regularly. He requested other states to follow suit.

GM, NERLDC opined that number of trippings have to be reduced for the lines supplying power to the oxygen plants and shutdown of the said lines have to be reduced to a minimum. He further requested the SLDCs to ensure that proper corrective actions are taken in case of tripping of any of these feeders. He requested the SLDCs to furnish detailed report on the reasons of tripping and corrective actions taken to avoid such tripping in future.

EE, SLDC, DoP Ar. Pradesh informed that presently six oxygen plants are in operation at the following locations:

- a. Tezu District Hospital
- b. Ziro District Hospital
- c. Aalo District Hospital
- d. Chimpu District Hospital
- e. Anini District Hospital
- f. Tawang District Hospital

The first five are grid connected and also have DG backup. Tawang oxygen plant is off-grid and is fed from the 11kV grid.

EE, SLDC, P&ED Mizoram stated that three oxygen plants are operational at Aizawl.

AGM, SLDC, AEGCL intimated that voltage drop has been observed at Dhemaji oxygen plant. For this AVR has been procured and will be installed latest by May'21.

The forum requested all the SLDCs to submit the status of power supply to oxygen plants and power outage report of oxygen power plants on daily basis to NERPC and NERLDC.

Deliberation of the sub-Committee:

JE, SLDC, DoP Ar. Pradesh informed that the oxygen plants are in operation and no interruption of power has been observed. He assured to regularly send the interruption report as per format.

The forum requested DoP, Ar. Pradesh & TSECL to submit the oxygen plant power supply report regularly. After detailed deliberation it was decided that NERPC would write to the MeECL management requesting details of oxygen plants in the state and power supply thereof.

The Sub-Committee noted as above.

Action: All SLDCs, NERPC.

B.2. Non-closure of Circuit Breaker at Mustem end for 132kV Khliehriat-Mustem line:

132 kV Khliehriat-Mustem S/C line had tripped on 2nd, 3rd May'21 and was restored by charging the line bypassing the CB at Mustem end due to non-closure issue of the CB as a temporary measure. Also, 132 kV Mustem-Khliehriat S/C and 132 kV Nehu-Mawlyndep S/C lines tripped on 12th May'21 leading to grid disturbance with a load loss of 26 MW at Mustem and Mawlyndep S/S and yet again the 132 kV Khliehriat-Mustem line was charged bypassing the CB at Mustem end.

MePTCL to expedite the rectification of faulty Circuit Breaker at the earliest for reliable operation & provide the schedule for rectification.

In 178th OCCM AE, MePTCL informed that prima facie it seemed that only the CB module for 132kV Khliehriat-Mustem was faulty, however after detailed inspection the entire GIS module has been found faulty. For rectification of the same, ABB personnel would visit in the first week of June'21. Further he intimated that the necessary modifications in protection settings at 132kV Khliehriat(ME) S/S has been done as per recommendation and is under observation.

Deliberation of the sub-Committee:

EE, SLDC, MeECL informed that on 16th June'21 some parameters of the CB were tested by OEM at Mustem. The forum requested MePTCL to expedite the breaker restoration.

The Sub-Committee noted as above.

Action: MePTCL.

B.3. Relaxation in regulations required for operation of Pare Power House:

Pare HEP was originally envisaged as Run of the River Scheme by CEA/CWC in the year 1978 forming a part of the Panyor - Pare Basin Development. As a result, Dikrong basin is being utilized by developing Pare HEP as a run of the River project. Run of river scheme is generally considered as sub optimal design to control flood and irrigation. The benefits of irrigation, flood control etc. for Pare Hydro Electric Project are well accounted in the basin development through the planned downstream Doimukh Storage Project.

Pare Hydro Electric Plant is located very near to densely populated areas and downstream Pare River runs through areas like Doimukh town & Nirjuli. Despite all the best efforts some untoward incidents in Pare River downstream of Pare Hydro Electric

Project has been noticed. To prevent such unfortunate incidents social awareness via public address announcement and board casting awareness messages in different mediums is being carried out by Project authorities. Also, there is an Early warning system and siren to alarm caution or evacuate the river bank during water release into the river.

As per NERLDC operation procedure, scheduled revision to be made for 7th block and overloading can be done only when there is spillage. As Pare HEP is in the downstream of RHEP and catchment volume of Pare HEP is relatively less as it is designed to utilized as run of river with small pondage. Due to which RWL increasing trend is very abrupt when RHEP is at full load or inflow of Pare River is high. The 6 blocks gap (from revision block to schedule block) is enough to increase RWL near to FRL. Also, NERLDC generally don't allow overloading of units till there is spillage. It is also to be noted that during Pare HEP dam spillage, generally RHEP runs at full load, at this condition frequency tends to be higher and for higher grid frequency in RGMO mode our machine loading decreases automatically below set point which further decrease the water consumption of units.

Therefore, considering Pare HEP being run of river with small pondage and regulations of NERLDC, it has become considerably tough to prevent water release through radial gate opening. This is not only wastage of national renewable resources but also uncontrolled release of impounded water hit the livelihood of downstream people.

It has been learnt that different power plants from different locations of our nation opted for exemption of regulations in the line of vintage plants or for other different constraints. Therefore, competent authority may pursue the matter for some relaxation in regulations in the line with constraints of Pare HEP.

The following relaxations may consider especially for Pare HEP-

1. Six (6) blocks gap may be reduced to 3-4 blocks.
2. Allowing to overload units before spillage to prevent Radial gate opening.
3. Allowing to turn off RGMO mode to prevent Radial Gate opening.

Deliberation of the sub-Committee:

Sr. Manager, Pare HEP, NEEPCO stated that Pare HEP is having inflows from Dikrong river and discharge from RHEP. During monsoon when the total inflow suddenly increases (i.e. greater than 35MCM) the diversion gate cannot be opened suddenly, in order to maintain calm/law & order in downstream. Also, the generation cannot be

increased due to 6 time block regulation and RGMO consideration. Thus, water level increases to FRL whence diversion gate is opened leading to huge loss of natural resource. He requested the forum to consider favourably the above three relaxations for Pare HEP.

CGM(I/C), NERLDC informed the following:

- Spillage condition as and when arises NEEPCO can consider revisions in DC/MU.
- The real time DC/MU revisions may be done w.e.f. 7th/8th TB as per 6th IEGC (Amendment of IEGC). Pare HEP may anticipate the spillage and intimate in advance.
- In WBES spillage check box option is available for declaration by hydro generators. When clicked Valve Wide Open(VWO) operation overloading is allowed and schedule is modified accordingly.

Whereas RGMO has been mandated by IEGC, there is also provision (in IEGC 5.2(f).ii.c) to switch off the RGMO whenever need is felt by generating stations by providing valid reason for the same and specifying the period for such switching off of RGMO. In spillage condition generators shall avail code for the same from NERLDC. If spillage continues beyond 24 hrs, they shall be required to avail a fresh code. NEEPCO agreed to the suggestions of NERLDC. The forum thanked CGM(I/C), NERLDC for the solution and decided to drop the item.

The Sub-Committee noted as above.

Action: NEEPCO.

B.4. Voltage discrepancy among the phases of Bus CVT at Ranganadi and commissioning of 400kV Bus A at Ranganadi:

A voltage difference of around 3-4 kV is observed among the phases of 400 kV Bus CVT at Ranganadi due to faulty R-phase of the 400 kV Bus CVT. Since the SCADA input of the Bus Voltage reported at NERLDC is fed from the 400kV Bus CVT, a discrepancy of 3-4 kV is observed between the Ranganadi Station and that reported at NERLDC and hence the 400kV bus voltage remains predominantly above the IEGC BAND causing high voltage deviation. NEEPCO is requested to look into the matter and take corrective action to resolve the issue of voltage discrepancy of the 400 kV Bus CVT.

Also, as per the minutes of 163rd OCCM, procurement of the elements required for installation of 400 kV Bus-A at Ranganadi was initiated and the target date was to be intimated after placing of LOA and the collection of budgetary offers along with

tendering was to be done in May'2020 as per 166th OCCM. Thereafter, there is no update on the matter. Hence, NEEPCO is requested to share the latest status regarding the same and expedite the commissioning works.

Deliberation of the sub-Committee:

Sr. Manager, RHEP, NEEPCO informed that 400kV Bus-B voltage as calculated at secondary(110V):

R-N: 65V (409.382 kV primary)

Y-N: 65.6V (413.161kV primary)

B-N: 65.3V (411.271 kV primary)

NERLDC stated that voltage discrepancies of about 3-4kV is observed between NERLDC SCADA and site. After detailed deliberation the forum requested RHEP, NEEPCO and NERLDC to validate the data points w.r.t Bus voltage.

Regarding procurement of items for operationalising of 400kV Bus-A at RHEP, DGM(E/M), NEEPCO informed the following:

- ALTRO-Pantograph system does not exist presently.
- After taking over by SIEMENS all the models have been upgraded.
- The exact items matching with existing configuration are not available in market.
- NEEPCO is taking necessary steps to procure and install the items by June'22.

Further, he also informed that the NIT for 80MVAR Bus Reactor (three single phase reactor bank) would be floated by July'21.

The forum decided to monitor the progress of the above under regular item No. C.1 of the OCC agenda.

The Sub-Committee noted as above.

Action: NEEPCO, NERLDC.

B.5. Ensuring reliability of the transmission network and adhering to best Operation and Maintenance Practices during ongoing pandemic:

NLDC vide its letter dated 07th June'21 asked the transmission utilities to take necessary measures of preventive line maintenance/vegetation management and/or other best practices to enhance transmission system reliability.

NERLDC vide letter dated 11th June'21 to the NER utilities highlighted that a large number of multiple trippings of transmission lines had occurred since May'21. It was observed that most of the elements had tripped due to transient nature of fault and a few trippings occurred due to mal-operation/non-operation of the protection system.

Hence, proper vegetation clearance and ensuring the healthiness of the protection system is of utmost importance. It is therefore, requested that respective constituents and ISTS licensees may take necessary measures of preventive line maintenance/vegetation management and checking healthiness of protection system and various protection schemes. It is also requested to share a copy of the measures taken in this regard for reducing the number of trippings and ensuring reliable power supply.

Deliberation of the sub-Committee:

Director(O&P), NERPC informed the forum that the training on Power Transmission Line Maintenance and Disturbance Recorder/Event Logger/FIR downloading and submission was conducted successfully by NERTS/NERLDC on 17th June,2021. He also suggested that based on the location (hilly or plane), required measures can be included along with POWERGRID methodology.

The forum thanked NERTS, NERLDC and approved the NERTS Maintenance Practice as regional practice for all utilities.

The Sub-Committee noted as above.

Action: all utilities.

B.6 Operational Performance and Grid Discipline during May,2021:

NERLDC presented the Operational Performance and Grid Discipline in May'2021(attached at **Annexure-B.6**)

The Sub-Committee noted as above.

B.7 Generation Planning (ongoing and planned outages)

a. Present per day MU and projected number of days of operation.

Plants	Reservoirs level in meter	MU content	Present DC (in MU)	No of days as per current generation
Khandong + Kopili stg II			0.151	
Kopili			0	Will be "0" until further intimation.
Doyang			0.623	
Loktak			0.39	

The outage of other generating stations may be approved considering the present water levels in reservoirs and long-term outage of Kopili HEP.

Deliberation of the sub-Committee:

After detailed deliberations the forum approved the outage of generators in July'2021.

The Sub-Committee noted as above.

Action: all generating utilities.

B.8 Outage Planning Transmission elements

It was agreed in the 99th OCC meeting that shutdown will be availed only after approval is given by the OCC forum. It was also agreed that deferment/revision of outages elements other than already approved in OCC will be henceforth put/displayed in the website of NERPC (under Operational Activities/OCC Approved shutdown) as per CERC regulations/ CEA guidelines etc for ensuring smooth & secure grid operation.

Furnishing request of shut down of the element, which was approved by NERPC, by Indenting Agency (ISTS licensees/STUs/Generating Companies) to NERLDC: Planned shutdown approved by NERPC shall be considered for implementation by NERLDC on D-3 basis. If an outage is to be availed on say 10th of the month, the shutdown availing agency would reconfirm to NERLDC on 7th of the month by 10:00 Hr. This practice is necessary to ensure optimal capacity utilization and the time required for associated system study/coordination by/amongst RLDC/NLDC.

It was decided in the previous OCCM that shutdown would be granted from the 1st day of the following calendar month to the 30th/31st day of the same month.

Deliberation of the sub-Committee:

After detailed deliberations the forum approved the shutdown of transmission elements for July'21(attached at **Annexure-B.8**).

The Sub-Committee noted as above.

Action: all transmission utilities.

B.9 Estimated Transmission Availability Certificate (TAC) for the month of April - May,2021:

NETC and POWERGRID have submitted the outage data for the month of April, May,2021. So, the attributability of outage of the said elements may please be finalized. POWERGRID has intimated that the shutdown of 132 KV Pasighat - Roing was approved from 08:00hrs of 20/05/2021 to 16:00hrs of 21/05/2021. The shutdown was necessitated for shifting of conductors from existing (but endangered) ERS tower to a new (and located at a safe distance) ERS tower near loc 213.

However, the stringing works had suffered severely owing from rapid rise of water in nearby Dotung river coupled with incessant rainfall. Rising water level has become a major obstacle in stringing of Y-ph conductor. While paying out, a portion (mid-span) of conductor has fallen into river, as it slipped away from the boat engaged in midstream river. A submerged portion of conductor still couldn't be withdrawn due to high turbulence of river water. Moreover, restrictions from COVID - 19 pandemic has prevented the team from accessing additional manpower and machineries. Despite these unforeseen incidents, all possible efforts were put to complete stringing works and enable smooth power flow of this crucial transmission line on 25.05.2021 at 21:47 Hrs. Now, the above-mentioned time taken from 08:00hrs of 20/05/2021 to 21:47 Hrs of 25.05.2021 for restoration of the line for avoiding collapse of tower and hence avoiding major power outage to several districts of Arunachal Pradesh, it is requested to consider the outage under "Forced Majeure due to natural cause" Category.

Deliberation of the sub-Committee:

CGM(AM), NERTS stated that inspite of deputing sufficient manpower the line could not be salvaged and conductor fell into the river. This delayed the restoration leading to a higher outage duration. He requested that the excess duration not be attributed to POWERGRID and rather be treated as Force Majeure condition. In absence of DoP Ar. Pradesh representative NERPC informed that consent from Arunachal Pradesh was received in the form of three phases, considering the COVID situation in Roing and Tezu:

1st Phase (Shifting the first conductor).

Shutdown starts from 0800hrs of 17/05/2021 upto 1600hrs of 18/05/2021.

(Shutdown to be returned latest by 1600 Hrs of 18/05/2021 and remain until 0800 Hrs of 20/05/2021).

2nd Phase (Shifting the Second Conductor).

Shutdown starts from 0800 Hrs of 20/05/2021 upto 1600 hrs of 21/05/2021.

(Shutdown to be returned latest by 1600 Hrs of 21/05/2021 and remain until 0800 Hrs of 23/05/2021).

3rd Phase (Shifting the last conductor).

(Shutdown starts from 0800 hrs of 23/05/2021 upto 1600 hrs of 24/05/2021).

Shutdown to be returned latest by 1600 hrs of 24/05/2021.

However, while executing the second phase the conductor fell in the river and the shutdown programme was delayed by four days from second phase onwards. Since

Arunachal Pradesh consent was conditional the forum decided to attribute the delay to POWERGRID.

The Sub-Committee noted as above.

Action: NERTS, NETC.

ADDITIONAL AGENDA ITEMS:

B.10 Protection Audit in Assam:

AEGCL requested for Protection Audit of Sub-stations so that DPR can be prepared for second phase of R&U accordingly.

Director(O&P), NERPC stated that due to lockdown restrictions the Audit cannot be carried out presently. He assured that after situation normalizes Third Party protection Audit team would visit sub-stations of Assam for the same.

The Sub-Committee noted as above.

Action: NERPC.

B.11 System Study by SLDCs:

Director(O&P), NERPC informed the forum that the previously System Study Sub-group meeting was held periodically to assess the various types of Study and Study results required for designing schemes such as SPS, Islanding etc. He requested the views of members regarding the importance of System Study Group and requirement of System Study Meetings. EE, SLDC, Meghalaya stated that presently SLDC, Meghalaya is doing Offline Load Flow Studies on a case to case basis. However, considering present system complexity Online Load Flow Studies are required. In view of Government of India's focus on Cyber Security and after commissioning of PDMS, Cyber Security and Protection Studies are domains where manpower is required in SLDC. The remaining SLDCs voiced similar concerns. The forum requested NERPC to write to the higher management of respective organizations so that adequate manpower is assigned to the SLDCs. After detailed deliberation it was decided that all the utilities would nominate officers to the System Study Group by July'21. Thereafter System Study Meeting would be held periodically.

The Sub-Committee noted as above.

Action: all utilities, NERPC.

B.11 Implementation of Projects funded from PSDF:

The status as informed in 179th OCC:

State	R&U scheme	ADMS	Capacitor Installation	SAMAST**	Line Differential Protection
Ar. Pradesh	Package-I (Diagnostic tools) Complete in all respects. P-II (for PLCC & communication) 50% of materials received on-site. Payment of 10% in process. P-III (Substation equipment) LoA by May'21 <i>Status as before.</i>	Work completed in all respects. Final 10% to be disbursed.	-	TESG approved.	-
Nagaland	Completed in all respects. 10% requisition to be sent alongwith UC.	Final 10% release in process.	-	TESG approved	Lines identified. Under DPR preparation stage.
Mizoram	Completed. 10% remaining claim to be submitted ASAP.	Work completed in all respects. Final 10% to be disbursed.	To reply to TESG queries.	TESG approved	DPR submitted.
Manipur	Package-II: completed Package-I: total quantity of material yet to be received at site	Work completed in all respects. Final 10% to be disbursed.	WIP.	TESG approved	DPR sent.**
	33kV System Integration with SLDC	In tendering stage			
	Reliable Communications for grid connectivity	In tendering stage			
Tripura	Work completed. 10% remaining claim to be sent ASAP.	60% funds not yet received. CA audit papers sent.	Study results to be submitted alongwith DPR	TESG approved	Only single line 132kV 79Tilla to Budhjangn agar. DPR to be prepared.

Assam	LOA issued. WIP, delayed due to COVID situation	60% funds not yet received. CA audit papers sent.	-	LoA issued	Lines identified. Under DPR preparation stage.
Meghalaya	MePTCL Completed in all respects. MePGCL – completed in all respects.	Project complete in all respects.	-	LoA issued.	WIP. Delayed due to COVID situation

Deliberation of the sub-Committee:

Director(O&P), NERPC requested all the nodal officers of SAMAST i.r.o. Arunachal Pradesh, Manipur, Mizoram, Nagaland and Tripura to submit the final BoQ for Meter, AMR portion by 23rd June, 2021 positively so that NIT can be floated by June’21.

The Sub-Committee noted as above.

Action: all utilities as above.

C. ITEMS FOR STATUS

C.1 Status of commissioning of 400kV Thoubal S/S and 132kV Gamphazol S/S of Manipur:

Provisional test charging approval was accorded for 400 kV Thoubal S/S on 11th March’21 by NERLDC for the inaugural function and the substation was first time charged on 12th March’21 after which the same was kept under outage from 28th March’21 till the submission of pending documents. MSPCL is requested to share the latest status update and expedite the commissioning of 400kV Thoubal S/S along with furnishing of the pending documents.

MSPCL had applied for shutdown of 132kV Yurembam-Karong line for stringing work of conductors from dead end tower LILO portion to gantry of new 132 kV Gamphazol Substation for forming 132kV Yurembam-Gamphazol- Karong link on 5th Jun’21. MSPCL is requested to share the status of commissioning of 132 kV Gamphazol S/S with tentative timeline of completion.

Deliberation of the sub-Committee:

DGM, SLDC, MSPCL informed that PTCC certificate is awaited for 400kV Thoubal S/Sn. Thereafter MSPCL would proceed with FTC. Further she informed that 132kV Gamphazol would be ready by Dec’21.

The Sub-Committee noted as above.

Action: all MSPCL.

C.1. Status of 400kV Silchar-Misa-I line reactor at Misa end:

400kV Silchar-Misa I line reactor at Misa end fault tripped on 21st May 2021 on Bucholz Relay operation and is still under outage. NERTS is requested to look into the matter and restore the line reactor at the earliest for reliable grid operation.

Deliberation of the sub-Committee:

Chief Manager, NERTS informed that the reactor has been charged.

The Sub-Committee noted as above.

C.2. Status of commissioning of 220kV Samaguri-Mariani-I:

Outage of 220 kV Samaguri-Mariani II causes vulnerability and reduced reliability in the Upper Assam area of NER Power System. In the event of shutdown/outage of 220 kV Samaguri - Mariani II, considering N-1 contingency, the system becomes vulnerable and generation backdown from AGBPP, NEEPCO and LTPS, LRPP and NTPS of APGCL is inevitable.

AEGCL is requested to provide the status update of the 220kV Samaguri-Mariani I and expedite the line to ensure reliability and security of the Upper Assam area of NER Power System.

Deliberation of the sub-Committee:

AGM, SLDC, AEGCL informed that for a stretch of 220kV Samaguri-Mariani-I forest clearance is awaited. For the remaining stretch of 109km estimate has been submitted for approval. CGM(I/C), NERLDC stated the following:

- In absence of 220kV Samaguri-Mariani-II or 220kV AGBPP-New Mariani line N-1 condition is not fulfilled.
- Hence to satisfy system reliability generation is reduced from AGBPP, LTPS, LRPP and NTPS
- In such cases AGBPP, NEEPCO should not sell the URS power due to backing down by NERLDC or due to reduction in requisition by Assam, in RTM or URS to other beneficiaries as no corridor is available.
- 220kV Mariani-New Mariani line and 220kV Samaguri-Mariani-I is to be brought into service at the earliest.

The forum requested NERLDC to conduct a study for 132kV Golaghat-Bokajan-Dimapur without Mariani-New Mariani connectivity. Also, the forum decided to refer the agenda of delay in commissioning of 220kV Mariani-New Mariani line and 200 kV Samaguri – Mariani I line to upcoming Standing Committee Meeting.

The Sub-Committee noted as above.

Action: AEGCL, NEEPCO.

C.3. SEMs to be procured for Sterlite and KMTL ongoing projects:

NERTS confirmed over mail regarding receipt of 50 Nos. SEM and 10 Nos. DCD at Misa Substation on 23.03.2021. NERLDC prepared a list of 30 nos. SEM and 07 nos. DCD on priority basis and sent to NERTS via mail on 29.04.21. Therefore, currently a total of 20 nos. SEM and 6 nos. DCD is in stock as spare (considering 3 nos. DCD as spare from earlier 20 nos. DCD procurement and 3 nos. from the present DCD procurement of 10 nos.).

NERTS may ensure the SEM and DCD distribution as per the list provided vide mail on 29.04.21.

Deliberation of the sub-Committee:

Chief Manager, NERTS informed that the SEMs, DCDs could not be collected from Misa due to lockdown restrictions. He assured that the same would be done by June'21.

The Sub-Committee noted as above.

Action: NERTS

C.4. Procurement of SEM & DCD/laptop for future requirements:

NERTS may intimate the status of procurement of:

- (I) 125 nos. SEMs and 15 nos. CMRIs
- (II) Additional 40 nos. of DCD

Deliberation of the sub-Committee:

Chief Manager, NERTS informed that LoA for 125 SEMs and 15nos DCD was placed on 27th May'21 and supply is expected to be complete by Jul'21. Further, he requested the forum to decide on the procurement agency/utility for the additional 40 DCDs, as PGCIL has been re-designated as Transmission Licensee. It was decided to take up the matter for discussion in the next OCCM.

The Sub-Committee noted as above.

Action: NERTS

C.5. Data collection at 132kV Ambassa for Ambassa end of 132kV PKBari line:

In 176th OCCM, the forum agreed for installation of the 5A SEMs procured by M/s STERLITE after getting certification from CTU/POWERGRID at Ambassa S/s till the CTs are replaced with 1A secondary CTs by TSECL at the earliest.

Currently, the other end meter reading (PK Bari (Sterlite)) is used for Tripura drawal accounting, and in case of any malfunction of this meter, energy accounting of this inlet point will not be possible.

Tripura & NERTS may update the status as SEM data of 132kV Ambassa end is yet to be received by NERLDC.

Deliberation of the sub-Committee:

Chief Manager, NERTS informed that the 5Amp secondary SEM at Ambassa has been installed on 26th May'21. The same was confirmed by TSECL.

The Sub-Committee noted as above.

C.6. Pair check mismatch of 400kV Azara-Silchar:

In 177th OCCM, it was decided that the CT ratio of SEM at Azara end should be 1000:1 in place of existing 2000:1 to enable matching with CT ratio of Silchar end SEM.

Deliberation of the sub-Committee:

AGM, SLDC, AEGCL informed that shutdown for 400kV Silchar has been proposed on 19th June'2021 for changing the metering CT ratio at Azara to 1000:1. The pair check issue will be resolved then.

The Sub-Committee noted as above.

C.7. Workshop cum 38th Meeting of FOLD:

38th meeting cum workshop of FOLD is scheduled to be held on 15th July 2021, 10:30 hrs onwards through video conferencing and WebEx application mode. The agenda of the meeting is sharing best practices by SLDC Jammu & Kashmir and NERLDC, followed by open forum discussions. All the SLDCs of NER are requested to attend and actively participate in the meeting and provide their confirmation on the mentioned date. It was also discussed that only Arunachal Pradesh and DoP, Nagaland are yet to present the best practices from NER. Forum requested DoP, Nagaland to share the best practices during 39th FOLD Meeting.

The Sub-Committee noted as above.

C.8 Status of Restoration of Balipara – Sonabil -II and reconductoring of Salakati-BTPS(AS) with HTLS conductor:

Regarding 220kV Balipara-Sonabil-2, Assam informed that LOA has been issued and will take 8 months from now. Forum decided to monitor of the same in coming OCC meetings.

Regarding 220kV Salakati-BTPS(AS) D/C, the forum referred the issue of delay in conversion of conductor into HTLS (High Tension Low Sag) to upcoming Standing Committee Meeting

The Sub-Committee noted as above.

Annexure-I**List of Participants in the 179th OCC Meeting held on 18.06.2021**

SN	Name & Designation	Organization	Contact No.
1	Sh. Gem Tara, JE (SLDC)	Ar. Pradesh (VC)	-
2	Sh. Rupanka Kr. Goswami, AGM (SLDC)	Assam (VC)	-
3	Ms. Barsha Kashyap, Dy.Mgr	Assam (VC)	-
4	Smti. Jayela Wahengbam, DM, SLDC	Manipur (VC)	-
5	Smti. Laishram Ritu, DGM, SLDC	Manipur (VC)	-
6	Sh. Roko Iralu, SDO (IT)	Nagaland (VC)	-
7	Sh. Achanger T. Aier, SDO (SLDC)	Nagaland (VC)	-
8	Sh. Poumei, SDO (IT)	Nagaland (VC)	-
9	Shri. S.I Asangba Tikhir, EE (T & SLDC)	Nagaland (VC)	-
10	Sh. Tia Kava, JE	Nagaland (VC)	-
11	Sh. Kevi, JE (SLDC)	Nagaland (VC)	-
12	Sh. T. Gidon, EE, SLDC	Meghalaya (VC)	-
13	Sh. D. Lyngdoh, EE, SLDC	Meghalaya (VC)	-
14	Smti. Riti Biam, AE	Meghalaya (VC)	-
15	Sh. H. Lalruatkima, EE, SLDC	Mizoram (MST)	-
16	Sh. Anil Debbarma, DGM (SLDC)	Tripura (MST)	-
17	Sh. Mrinal Paul, Sr. Mgr.	Tripura (MST)	-
18	Sh. U. Kataki, CGM	PGCIL (MST)	-
19	Sh. Devaprasad Paul, Ch. Mgr. (AM)	PGCIL (MST)	-
20	Sh. P. Nandi, Manager (RTAMC)	PGCIL (MST)	-
21	Sh. Nabarun Roy, CGM (I/c)	NERLDC (VC)	-
22	Sh. R. Sutradhar, CGM	NERLDC (VC)	-
23	Sh. S.C. De, Sr.GM	NERLDC (VC)	-
24	Sh. Sourav Mandal, Dy. Mgr. (SO-I),	NERLDC (VC)	-
25	Ms. Kritika Debnath, Engineer	NERLDC (VC)	-
26	Sh. Sunil Singha, Mgr.	NERLDC (VC)	-
27	Sh. Joypal Roy, DGM	NEEPCO (MST)	-
28	Sh. Madhurjya Dutta, Sr. Mgr.	NEEPCO (MST)	-
29	Sh. S.M. Mohan, Mgr.	NEEPCO (MST)	-
30	Sh. Narang Randa, Sr. Manager (E)	NHPC (VC)	-

31	Sh. Sajeev, DGM (O)	NTPC(MST)	-
32	Sh. Kangkan Paul, Dy. Manager	NTPC(MST)	-
33	Sh. Narendra Kumar Gupta, Sr. Mgr. (O)	OTPC(MST)	-
34	Sh. Sushil Kumar, Manager	OTPC(MST)	-
35	Sh. Vivek Kumar, Executive	OTPC(MST)	-
36	Sh. Ratan Singh Basnet, Sr. Mgr.	NETC (MST)	-
37	Sh. Mahesh Bhagat, Manager	INDIGRID (MST)	-
38	Sh. A.K. Thakur, Member secretary	NERPC	-
39	Sh. B. Lyngkhai, Director (O&P)	NERPC	-
40	Sh. S. Mukherjee, Dy. Director	NERPC	-
41	Sh. S. Chatturvedi, AD	NERPC	-



उ.पू.क्षे ग्रिड प्रदर्शन

NER GRID PERFORMANCE

For the month May 2021

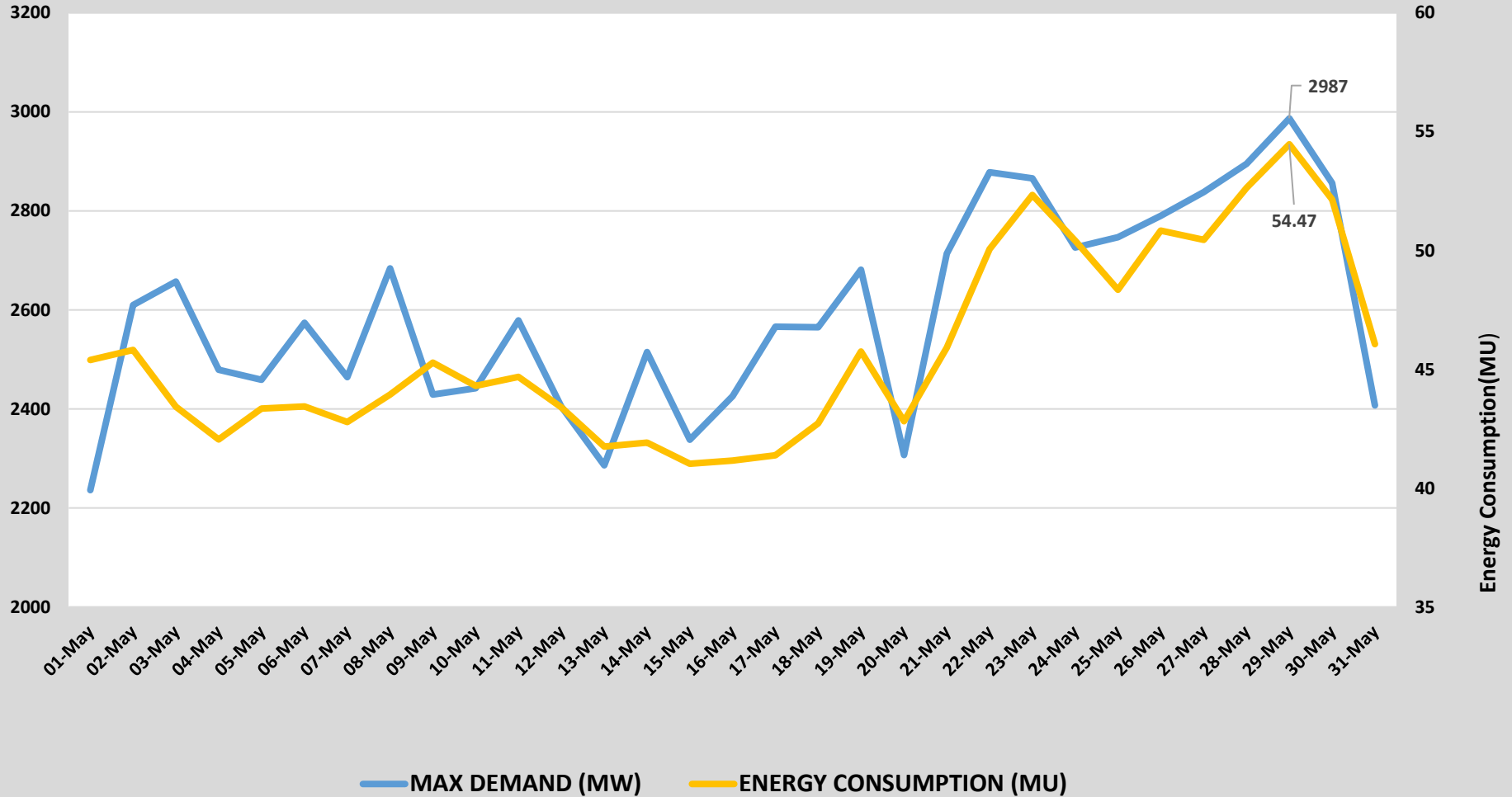
North Eastern Regional Load Despatch Centre

POSOCO, Shillong

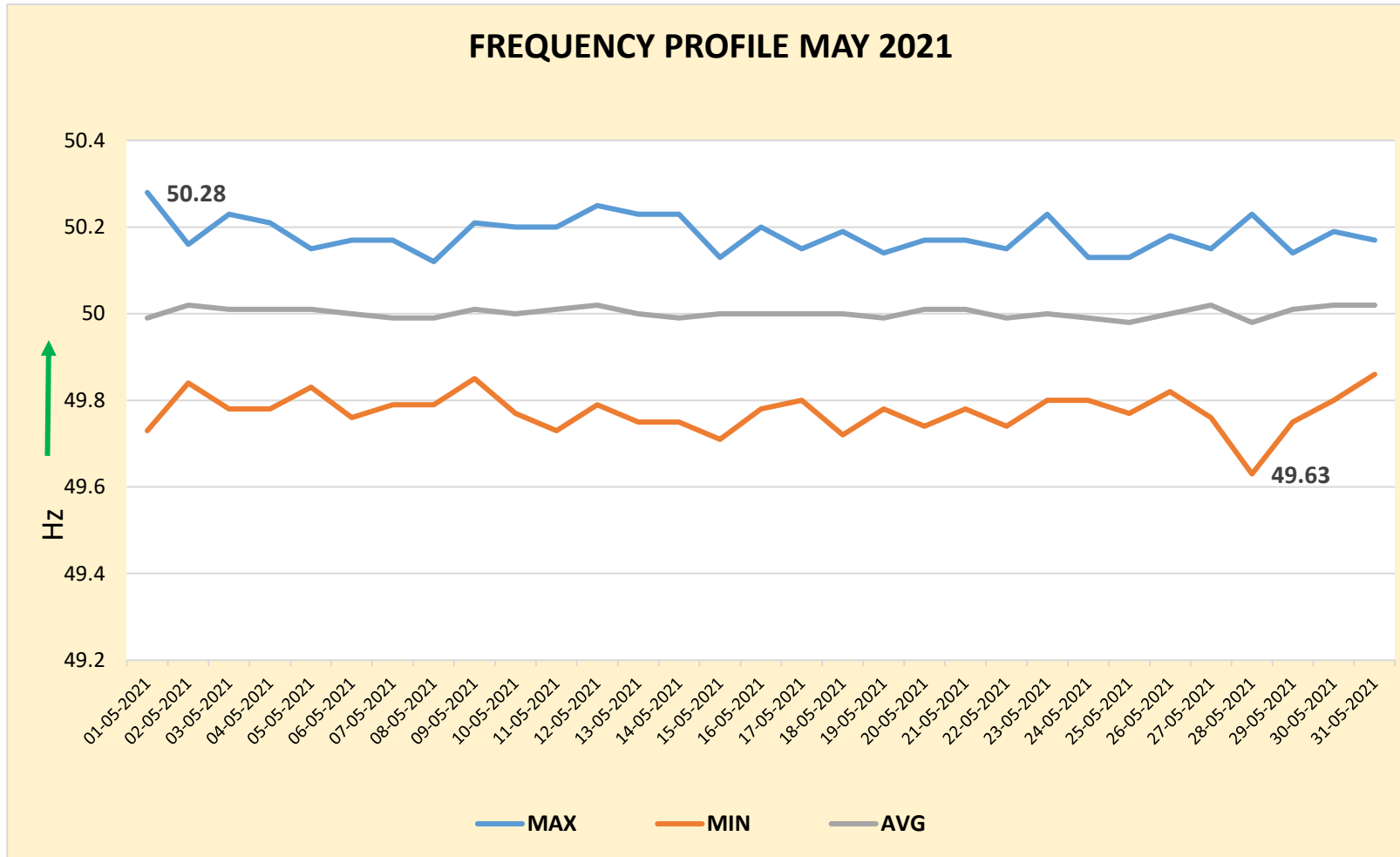
Maximum MW and MU in NER: May 2021



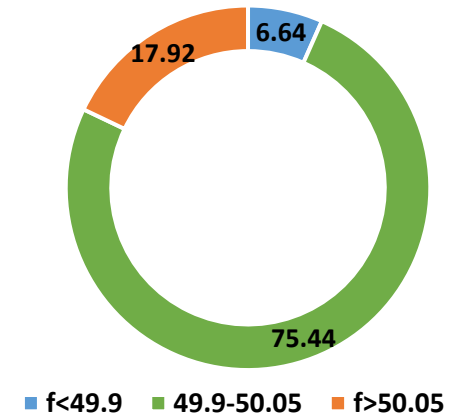
Maximum Demand (MW) and Energy Consumption (MU)



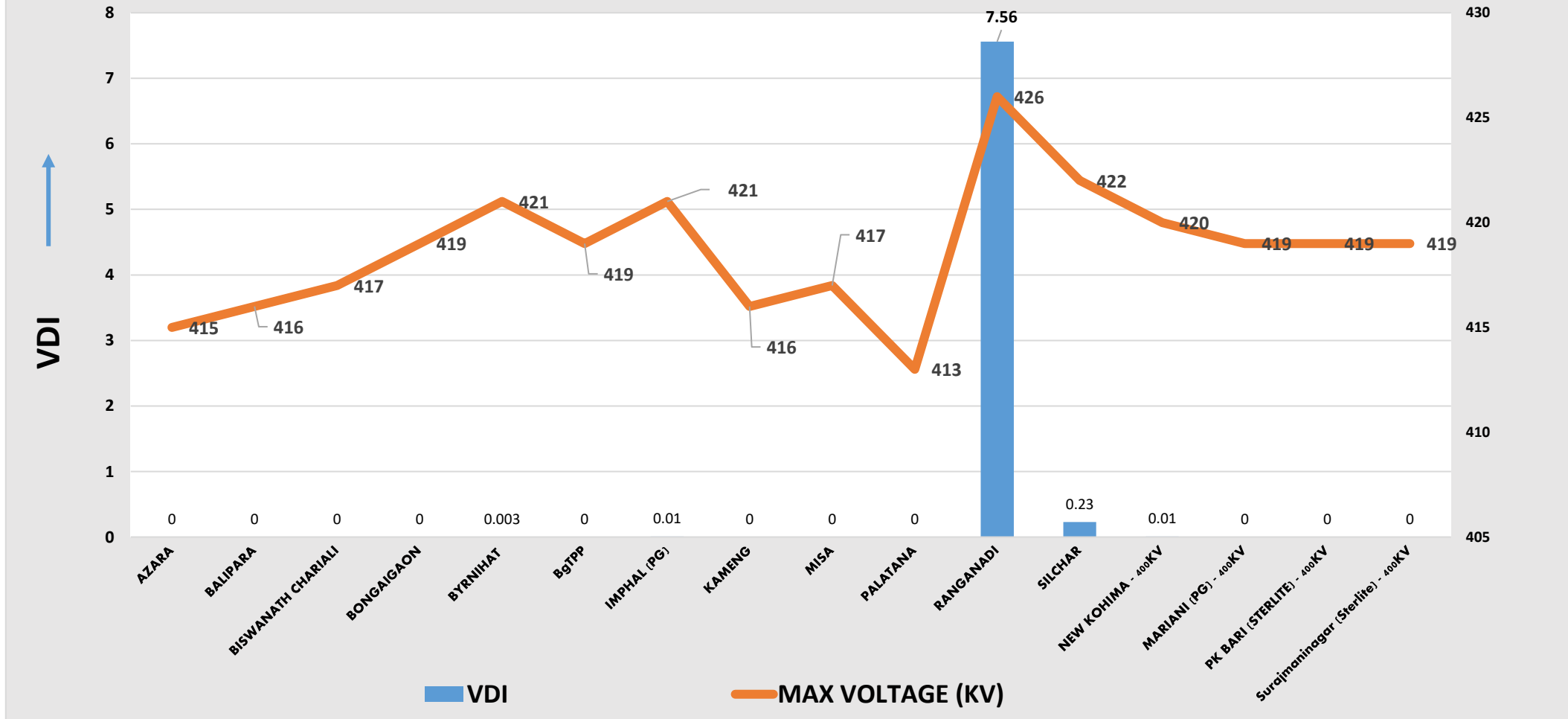
Frequency Profile



FREQ PROFILE FOR MAY'21



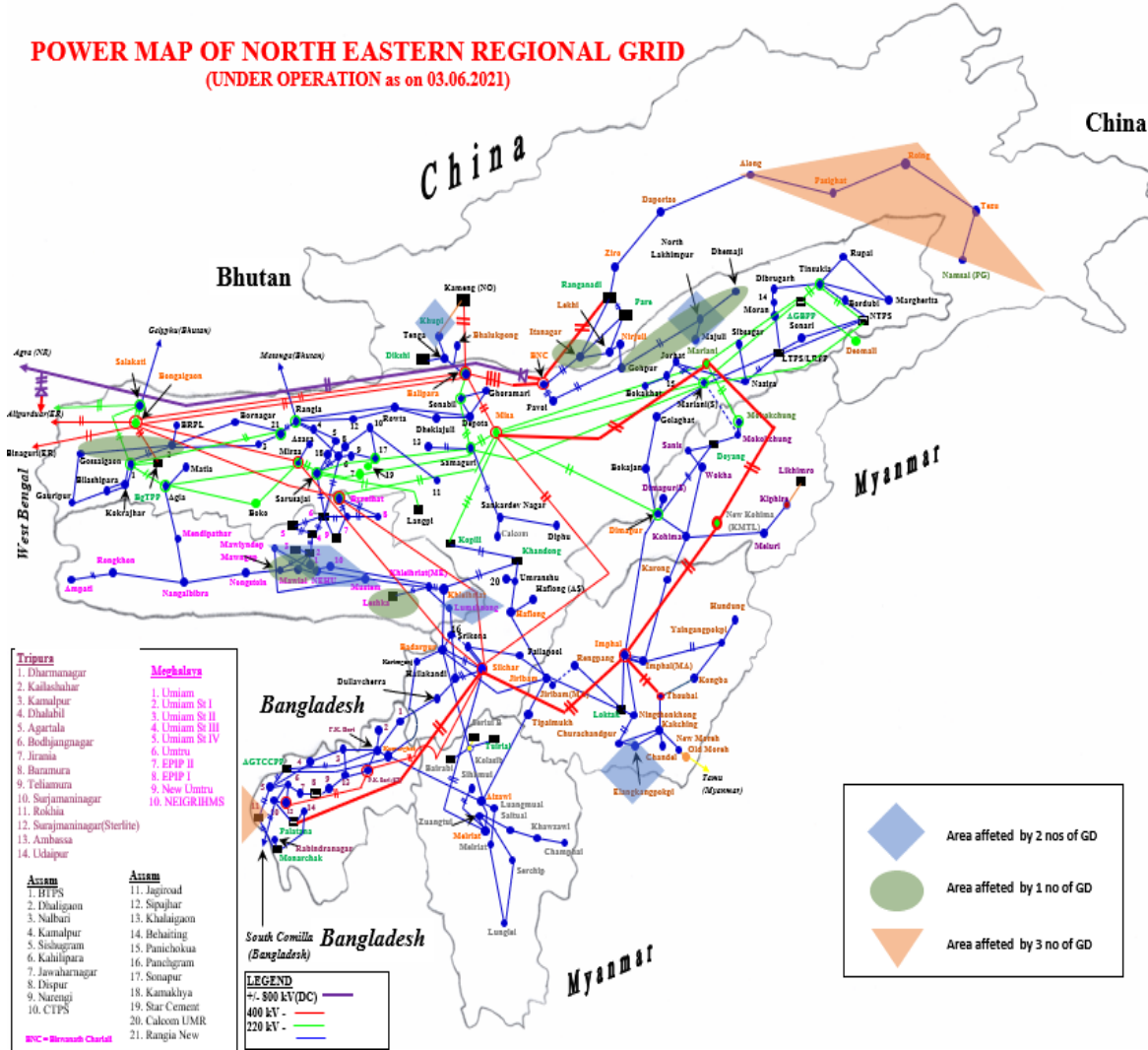
VDI (400 KV) FOR MAY 2021



Grid Disturbance during May 2021



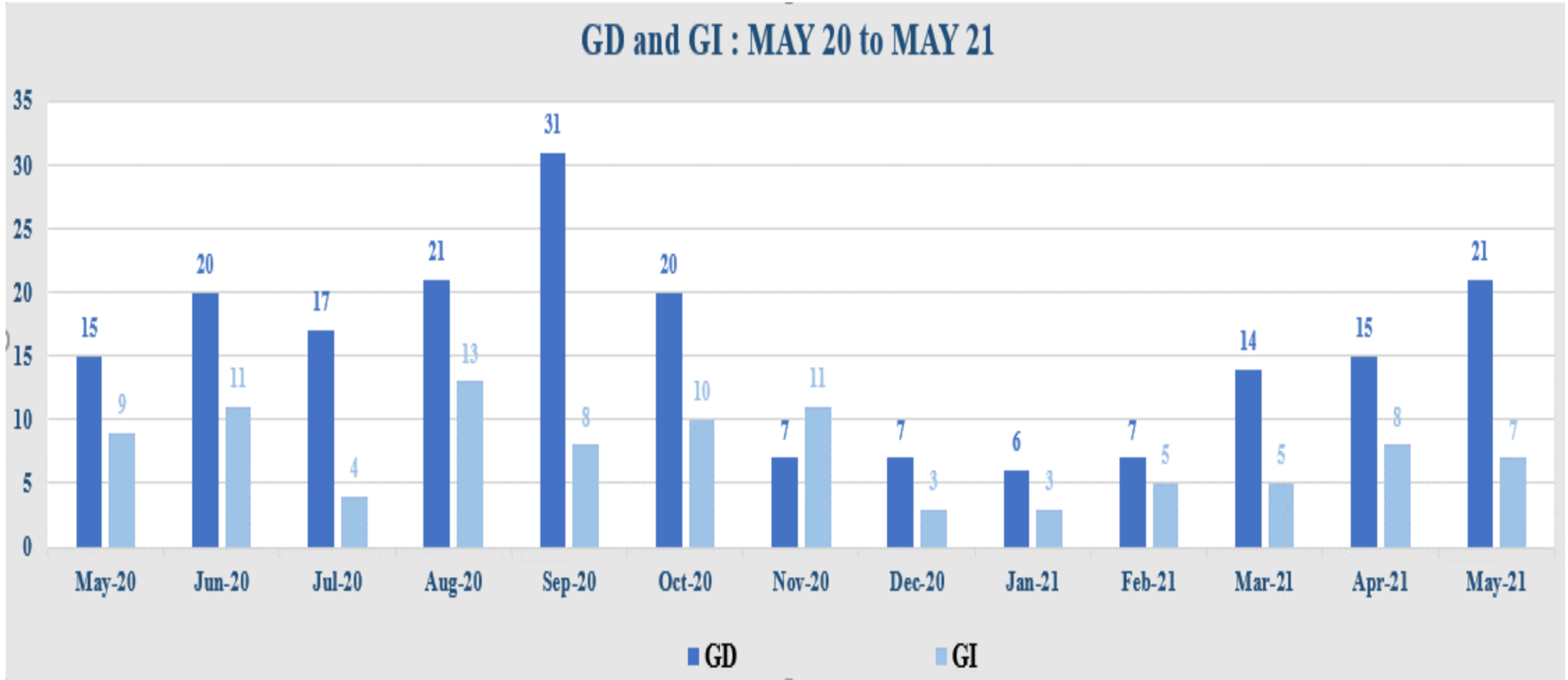
POWER MAP OF NORTH EASTERN REGIONAL GRID
(UNDER OPERATION as on 03.06.2021)



No. of GD	21
No. of GI	7

132 kV Agartala - Rokhia 1 Lines and 132 kV Monarchak - Rokhia Line	caused GD 3 times
132 kV Daporijo-Along line	caused GD 3 times
132 kV Balipara - Tenga and 132 kV Tenga- Khupi lines	caused GD 2 times
132 kV Imphal(MSPCL) - Yiangangpokpi D/C lines	caused GD 2 times
132 kV Gohpur-North Lakhimpur I & II lines	caused GD 2 times
132 kV Mustem-Khliehriat line, 132 kV Mawlyndep-Mustem line and 132 kV Mawlyndep-NEHU line	caused GD 2 times
132 kV Lumshnong - Panchgram and 132 kV Khliehriat(MePTCL) - Lumshnong lines	caused GD 2 times
132 kV Gophur-Pavoi(AS) II and 132 kV Lekhi-Nirjuli lines	caused GD 1 times
Myndtu Leshka - UNIT 1 & 2 & 132 kV Leshka-Khliehriat(MePTCL) D/C lines	caused GD 1 times
132 kV Umiyam III-Umiyam I D/C, 132 kV Mawlai-NEHU, 132kV Umiyam I-Umiyam, 132 kV Nongstoin-Mawngap, 132 kV Umiyam IV-Umiyam III D/C, 132 kV Neigrhims-Khliehriat and New UMTRU U#1	caused GD 1 times
132 kV Itanagar (Chimpu)-Lekhi, 132 kV Pare – Lekhi, 132 kV Itanagar(Chimpu)-Pare, 132 kV Itanagar(Chimpu)-Ranganadi and 132 kV BNC(PG) - Itanagar (Chimpu) I & II	caused GD 1 times
132 kV BTPS-Dhaligaon D/C lines	caused GD 1 times

Grid Disturbance/Incidences for F.Y. 2020-2021



Number of Days as per Current Hydro Generation



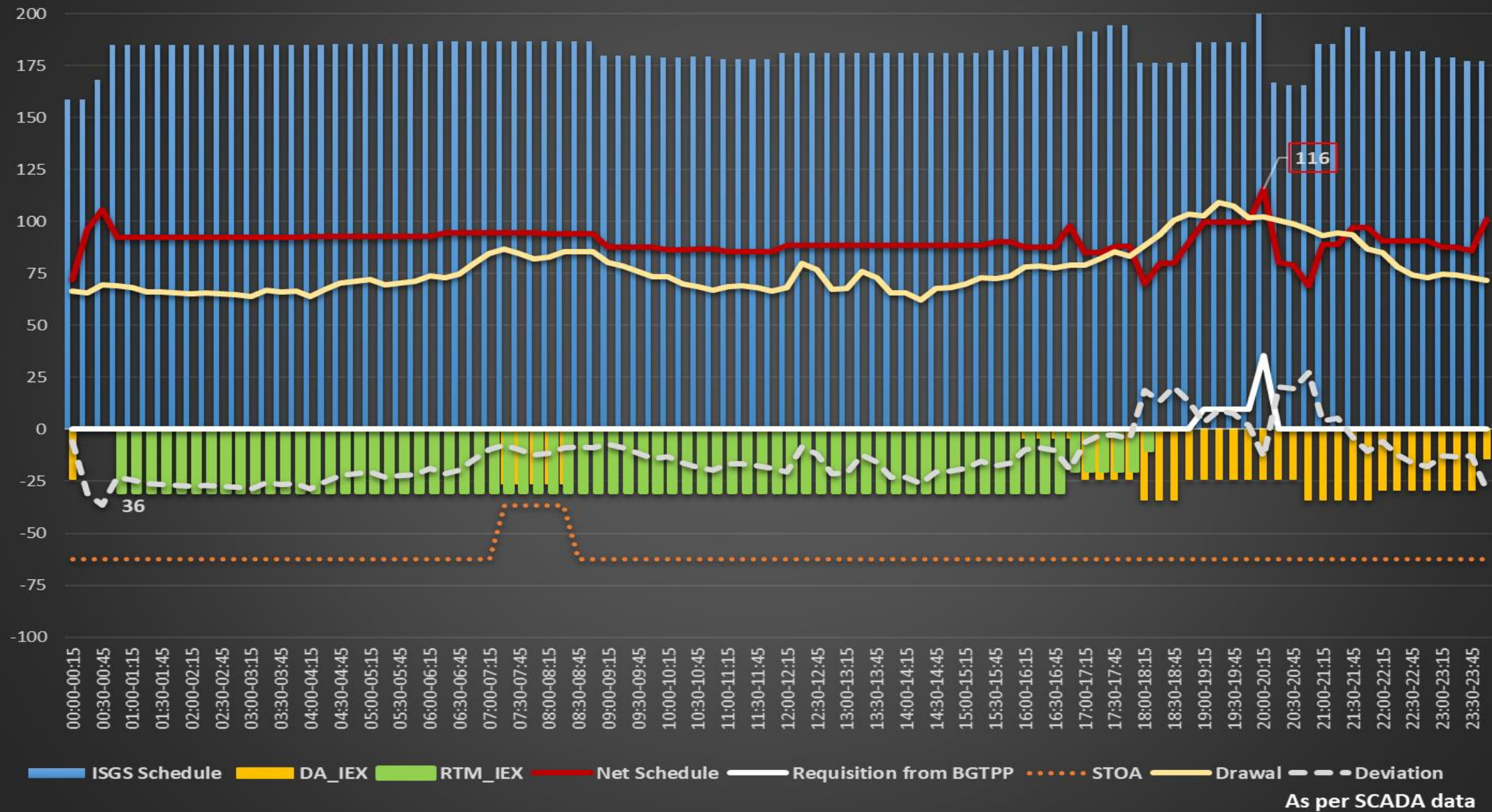
Plants	Reservoir Level in meters (as on 15/06/2021)	MU Content	Present DC (MU)	No of days as per current Generation
Khandong + Kopili STG II	722.35	30.54	1.176	26
Kopili	-	-	-	
Doyang	306.4	0.455	0.135	3
Loktak	766.57	14.8	0.801	18

Approved shutdown availing status for May 2021

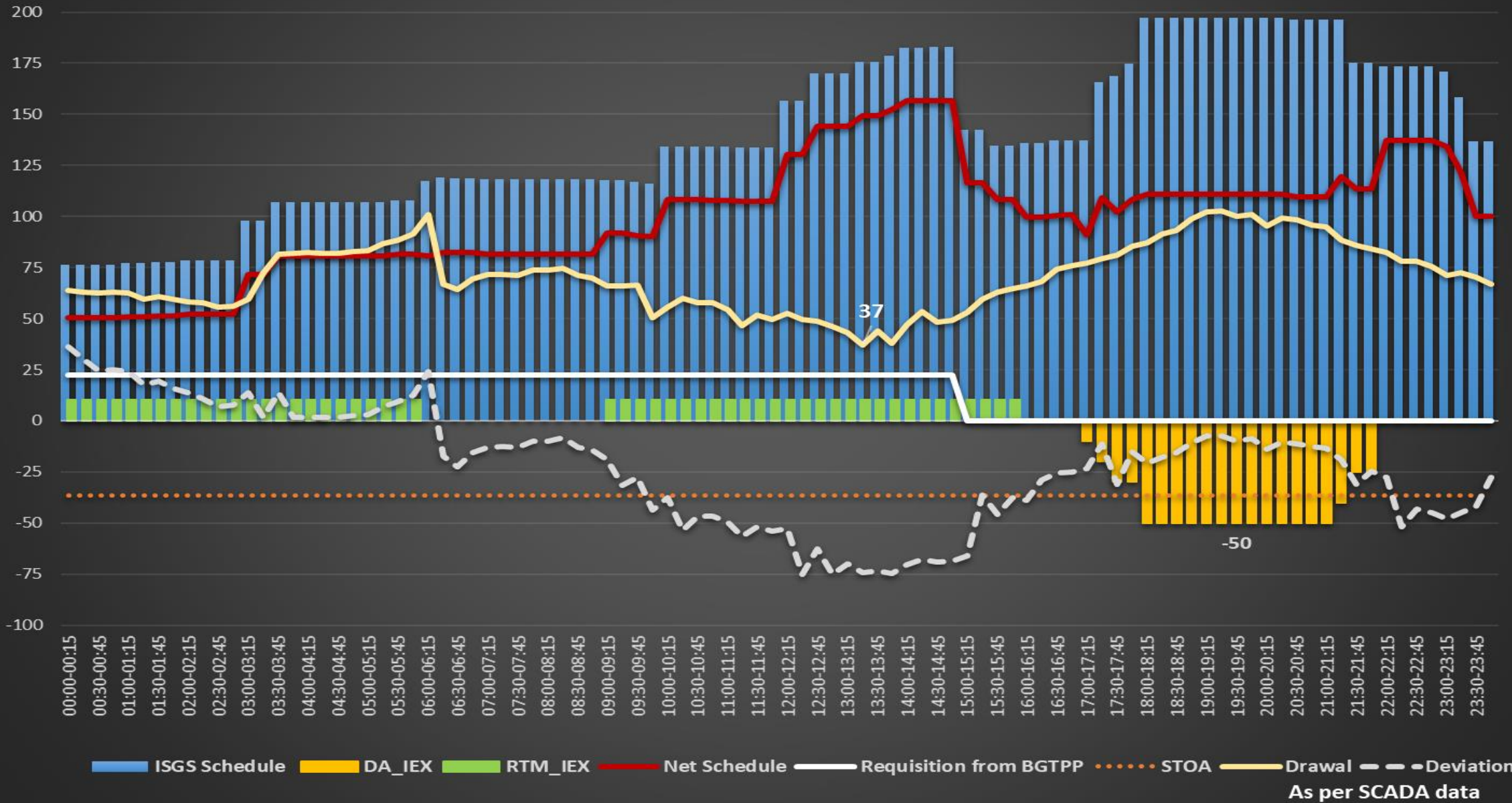
SUMMARY OF NER OUTAGE

MONTH	PLANNED IN OCC	APPROVED IN D-1	AVAILED IN REAL TIME	AVAILED VS PLANNED	AVAILED VS APPROVED	DEFERRED BY RLDC DUE TO SYSTEM CONSTRAINT
May-21	212	130	75	35%	58%	6

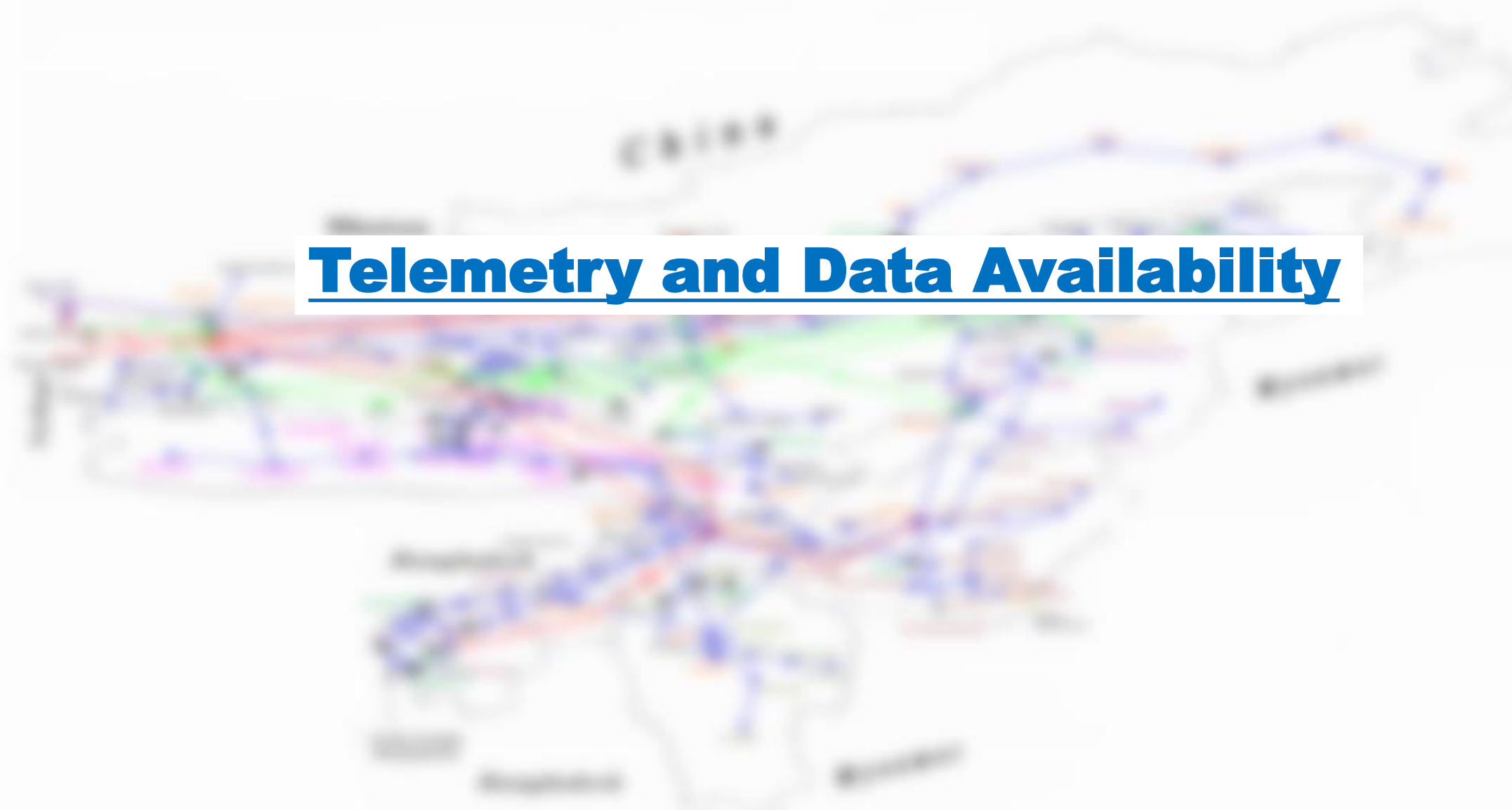
ISGS Schedule and Market Participation of AP for date 08.06.2021



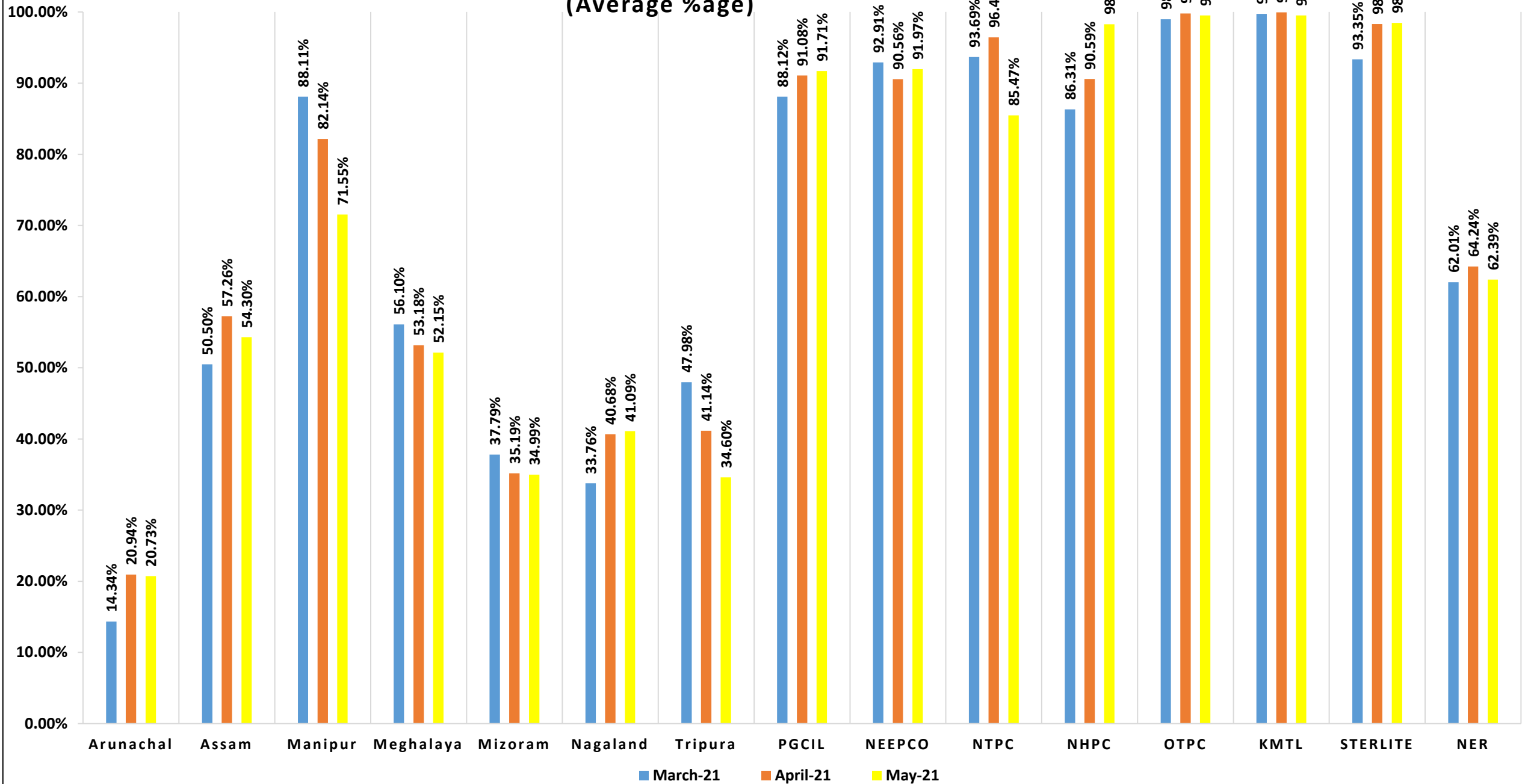
ISGS Schedule and Market Participation of AP for date 02.06.2021



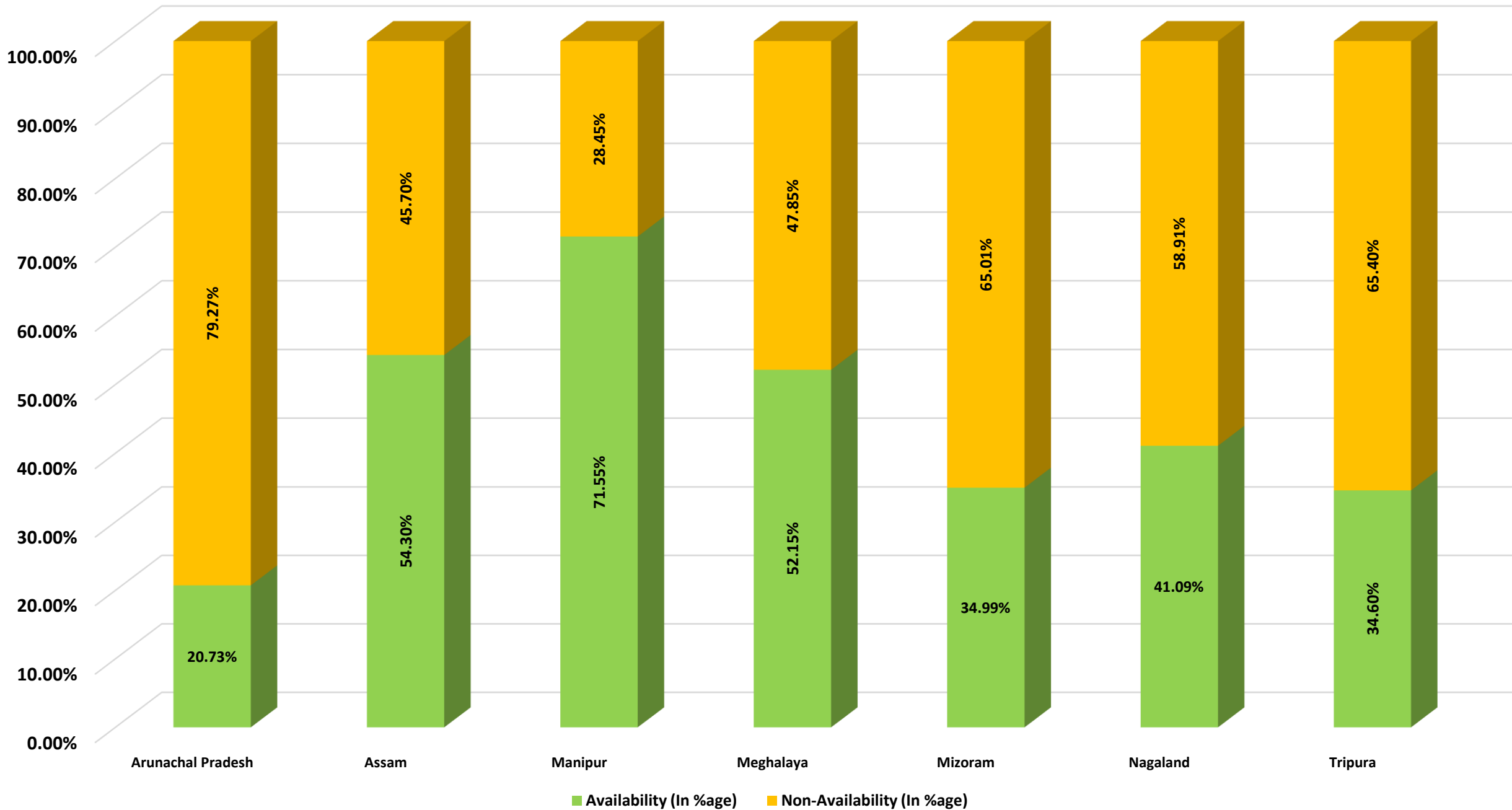
Telemetry and Data Availability



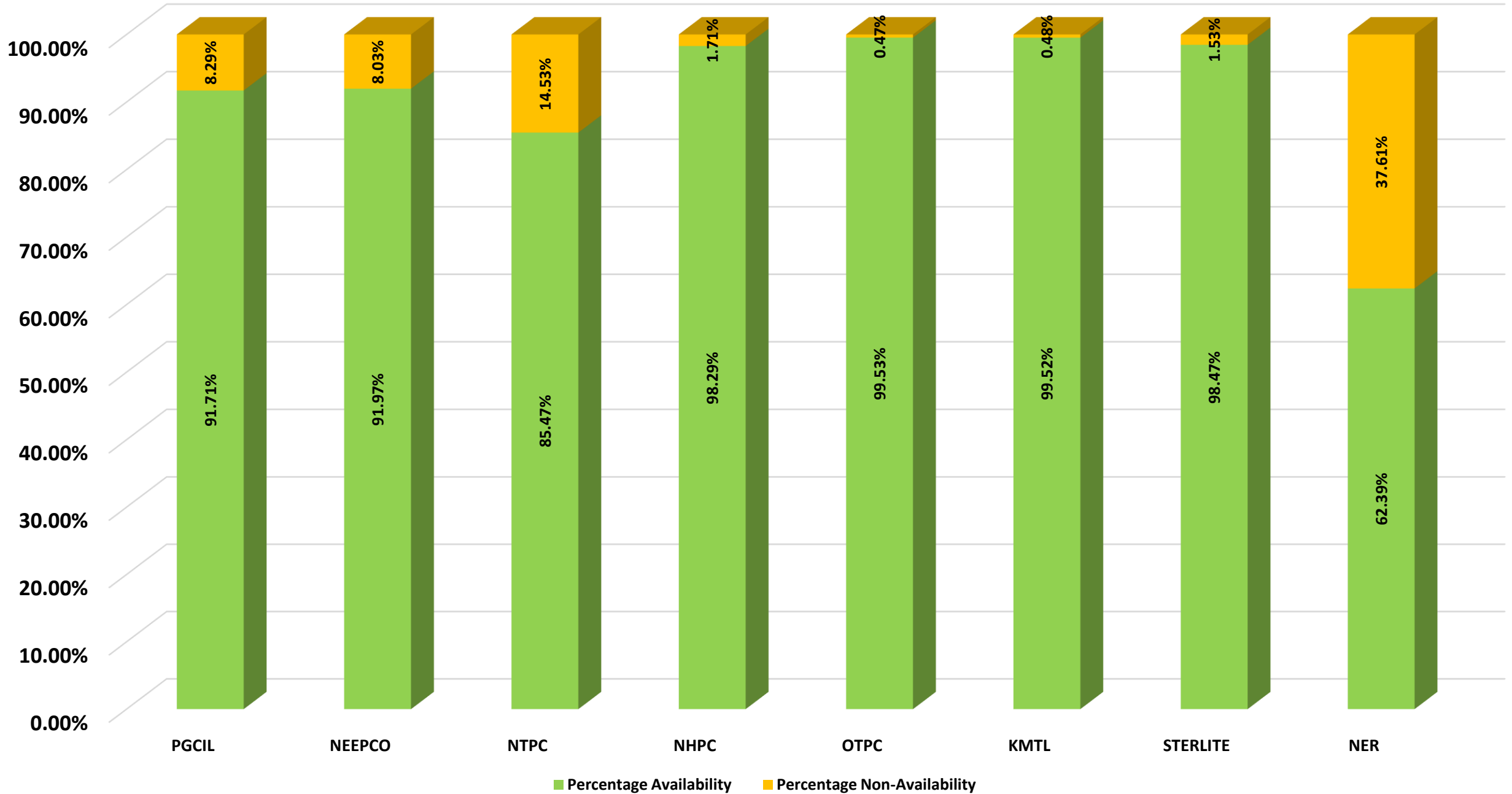
Comparson of Telemetry Availability Statistics (Average %age)



Telemetry Statistics for NER States (Average availability of data for the Month of May'21)



Telemetry Statistics for Central Sector of NER (Average availability of data for the Month of May'21)





Thank You