

Details of Grid Events during the Month of April 2024 in Northern Region



Sl No.	Category of Grid Event (GI Lor GI2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH-MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load as % of Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GI-2	Himachal Pradesh	01-Apr-2024 18:37	01-Apr-2024 20:17	01:40	300	0	0.687	0.000	43667	49841	<p>During antecedent condition, 100 MW Chamera II HPS UNIT 1, 2 & 3 were generating approx. 100MW each.</p> <p>It is reported, at 18:37 hrs, the inverter supply to butterfly valve got disrupted due to malfunction of inverter system. This led to closing of butterfly valve.</p> <p>It is per scheme, due to sudden closure of butterfly valve while unit circuit breaker is in closed condition, lockout relay got activated and initiate emergency trip command to all units. This led to tripping of 100 MW Chamera II HPS UNIT 1, 2 & 3.</p> <p>It is per PMU at Bhandal(PG), no fault is observed in the system.</p> <p>It is per SCADA, loss of generation of approx. 300MW is observed at Chamera-II(NHPC).</p>	<p>1) 100 MW Chamera II HPS UNIT 1</p> <p>2) 100 MW Chamera II HPS UNIT 2</p> <p>3) 100 MW Chamera II HPS UNIT 3</p>
2	GI-2	Rajasthan	06-Apr-2024 11:24	06-Apr-2024 13:42	02:18	4870	630	8.676	1.213	56133	51953	<p>It is reported, at 11:24hrs, 400kV Bhadla(RS) Bikaner(RS) Ckt-1 tripped from Bhadla(RS) end only on R-Y phase to phase fault with fault distance of 49.19km and fault current of 0.002KA and 0.29KA in R and Y phase respectively from Bhadla(RS) and fault distance of 329.2km from Bikaner(RS) end. As per information received from SLDC Rajasthan, M/s Ramdies Pvt. Ltd. was asked to carry out patrolling of line and it was found that fault occurred due to conductor sagging between loc. no. 171-172.</p> <p>It is per DR at Bikaner(RS) end of 400kV Bhadla(RS)-Bikaner(RS) Ckt-1, fault was sensed in zone-1; fault current was 4.18KA and 4.37KA in R and Y phase respectively from Bikaner(RS) end and fault clearing time was ~50ms. Time sync issue is observed.</p> <p>It is per PMU at Bhadla(PG), R-Y phase to phase fault is observed with fault clearance time of 80 ms. Voltage dipped upto 0.844 p.u. at Bhadla(PG).</p> <p>It is per SCADA, total NR RE generation drop/loss was approx. 4870MW (~3884MW STS RE generation and ~986MW Rajasthan RE generation). Due to significant dip in RE generation frequency dropped by 0.49Hz (from 50.029Hz to 49.539Hz).</p> <p>It is per details received from SLDC, total load relief of approx. 430 MW observed in NR region (UP: ~125MW, Rajasthan: ~165MW, Punjab: ~340MW) on dft/operation.</p> <p>It is per SCADA, total NR RE generation (as RE generation failed to observe 90% of pre-fault active power within 1 sec and further inverters tripping on CV, LVRT/HVRT Non-compliance), over voltage (1.114pu at 400kV Bhadla(PG) scenario occurred immediately after the fault.</p> <p>It is per SCADA SOE, 400kV Jodhpur(RS) Rajawat(RS) Ckt-1 also tripped during the same time. (Exact reason yet to be shared) It is suspected that line tripped due to over-voltage that occurred immediately after the fault.</p> <p>It is the same time, 315 MW Rajawat (HP) UPS - UNIT 1 also tripped due to GT tripped, as reported (further details yet to be received).</p> <p>It is after rectification work (de-stringing, stringing, spacing, jointing and repairing) at Loc No. 170-173 (Top Phase), 400kV Bhadla(RS) Bikaner(RS) Ckt-1 was charged at 21:40hrs on 08th April, 2024.</p>	<p>1) 400kV Bhadla(RS)-Bikaner(RS) Ckt-1</p> <p>2) 400kV Jodhpur(RS)-Rajawat(RS) Ckt-1</p> <p>3) 315 MW Rajawat (HP) LTPS - UNIT 1</p>
3	GI-2	Haryana	07-Apr-2024 18:07	07-Apr-2024 18:54	00:47	0	0	0.000	0.000	39542	46314	<p>During antecedent condition, 800kV HVDC Champa Kurukshetra was carrying total 1940MW (approx. 485MW by each Pole).</p> <p>It is reported at 18:07hrs, 800 kV HVDC Kurukshetra (PG) Pole-03 blocked on 'zone protection operation at Kurukshetra end.</p> <p>It is during the same time, 800 kV HVDC Kurukshetra (PG) Pole-03 also blocked on 'CAT B' sequence initiated by parallel Pole-01 due to latching of 'zone protection.</p> <p>It is further reported, sequence of event is as follows:</p> <ul style="list-style-type: none"> a. B7:52:24-201 - Pole-1 lane 2 to Bipolar Lane 1 and Lane 2 Optic link was toggling (This link is used to transmit parallel pole data between Pole-1 and Pole-3) b. B7:52:34-200 - Pole-1 lane 2 become unavailable c. B7:52:46-841 - Pole-1 lane 2 Main 1 and Main 2, 'zone protection got latched due to toggling of optic between Pole-1 Lane-2 and Bipolar-1 d. B8:07:13-502 - Pole-1 lane 2 become available automatically, due to already latched 'zone protection, 2 out of 4 logic got satisfied after availability of Pole-1 Lane-2 and it initiated CAT B protection. e. B8:07:13-502 - CAT B got latched in Pole-1 lane 2 because of 'zone protection f. B8:07:13-603 - Pole-1 blocked g. B8:07:13-594 - Pole-3 blocked <p>It is due to tripping of two poles Pole-01 and Pole-03, power order reduced from 1940MW to 1855MW and shifted to the other two Poles.</p> <p>It is per PMU, fluctuation in voltage was observed.</p> <p>It is per SCADA, no change in demand is observed in Haryana control area.</p> <p>It is the tagging of optic can be due to several reasons, so the 5003 card of Pole-1 Lane-2 where both the fiber were connected was replaced and Pole-1 Lane-2 was kept in maintenance mode for observation.</p>	<p>1) 800kV HVDC Kurukshetra(PG) Pole-01</p> <p>2) 800kV HVDC Kurukshetra(PG) Pole-03</p>
4	GI-2	Rajasthan	07-Apr-2024 10:24	07-Apr-2024 11:56	01:32	1680	0	3.250	0.000	51686	49513	<p>It is reported, at 10:24hrs, 800 kV Abdullapur-Kurukshetra (PG) Ckt-2 tripped on Y-N phase to earth fault due to insulator flashover with fault distance of 1.5km and fault current of ~18KA from Abdullapur(PG) end.</p> <p>It is per DR at Bikaner(RS) end of 400kV Bhadla(RS)-Bikaner(RS) Ckt-1, fault was sensed in zone-1; fault current was 4.18KA and 4.37KA in R and Y phase respectively from Bikaner(RS) end and fault clearing time was ~50ms. Time sync issue is observed.</p> <p>It is per PMU at Abdullapur(PG), Y-N phase to earth fault with unsuccessful A/R is observed. Voltage dipped upto 0.388 p.u. and 0.195p.u. respectively at Abdullapur(PG).</p> <p>It is per PMU at Bhadla(PG), voltage dipped upto 0.888 p.u. at Bhadla(PG).</p> <p>It is the same time, 220/33 kV 100 MVA ICT 3 at KSDC/PS54_SL_BHD01_P0 also tripped due to over-flux protection operation (mal-operation suspected, exact details yet to be shared).</p> <p>It is per SCADA, during fault, total NR RE generation dip of approx. 1680MW is observed and almost all RE generation recovered within 04 minutes.</p> <p>It is due to significant dip in RE generation, frequency dropped by 0.132Hz (from 49.897Hz to 49.865Hz).</p> <p>It is per SCADA SOE, 33/1kV 66kV 12.5MVA IDT-7 at MRPL(PS)_SL_BHD01_P0 also tripped during the same time. (Exact reason yet to be shared)</p>	<p>1) 220/33 kV 100 MVA ICT 3 at KSDC/PS54_SL_BHD01_P0</p> <p>2) 400 kV Abdullapur-Kurukshetra (PG) Ckt-2</p>
5	GD-1	Punjab	11-Apr-2024 03:01	11-Apr-2024 04:31	01:30	0	175	0.000	0.371	40503	47115	<p>It is 220/66kV Gobindgarh-2(PS) has single bus arrangement at 220kV and 66kV side. Gobindgarh-2(PS) is connected to 220/66kV Bhat(PS), 220/32 kV Ganguwala(BB) and 220/66kV Gobindgarh-1(PS)(D/C) form 220kV side.</p> <p>It is during antecedent condition, 220kV Gobindgarh-1(PS)-Gobindgarh-2(PS) D/C were not in service.</p> <p>It is reported, at 03:01 hrs, B-phase CT at Gobindgarh-2(PS) end of 220kV Bhat(PS)-Gobindgarh-2(PS) ckt blasted and the line tripped.</p> <p>It is during the same time, 220kV Ganguwala(BB) Gobindgarh-2(PS) (BB) Ckt tripped only from Ganguwala(BB) end on B-N phase to earth fault with fault distance of 94.63km (121.32% and fault current of 5.584kA from Ganguwala(BB) end).</p> <p>It is per SCADA SOE, no CB tripping is observed at Gobindgarh(PS). Hence it is suspected that line CB of 220 kV Bhat (PS) Gobindgarh-2(PS) ckt at Gobindgarh-2 end didn't open which led to tripping of 220kV Ganguwala(BB) Gobindgarh-2(PS) (BB) Ckt from Ganguwala(BB) end. (details of the same yet to be shared)</p> <p>It is per PMU at Bhat(PG), B-N phase to earth fault with unsuccessful A/R operation is observed in the system. Fault clearing time was 80ms.</p> <p>It is per SCADA, load loss of approx. 175MW is observed in Punjab control area.</p>	<p>1) 220 kV Ganguwala(BB)-Gobindgarh-2(PS) (BB) Ckt</p> <p>2) 220 kV Bhat (PS) -Gobindgarh-2(PS) Ckt</p>
6	GD-1	Uttar Pradesh	11-Apr-2024 00:31	11-Apr-2024 01:56	01:25	0	150	0.000	0.297	42607	50438	<p>It is 220kV side of 400/220/132kV Gr-Noida(UP) has double main & transfer bus scheme.</p> <p>It is reported, at 00:31 hrs, Y phase CT at 220kV side of 400/220kV 315MVA ICT-2 at Gr-Noida (UP) blasted which led to busbar protection operation at 220kV Bus-2 at Gr-Noida (UP).</p> <p>It is due to this, all the elements connected to 220kV Bus-2 at Gr-Noida (UP) tripped and Bus-2 became dead.</p> <p>It is per PMU at Meerut(PG), Y-N phase to phase fault with delayed fault clearance time of 280 ms is observed.</p> <p>It is per SCADA, change in demand of approx. 150MW in UP control area.</p>	<p>1) 400/220 kV 315 MVA ICT 2 at Gr-Noida(UP)</p> <p>2) 400/220 kV 500 MVA ICT 6 at Gr-Noida(UP)</p> <p>3) 220/132 kV 200 MVA ICT 3 at Gr-Noida(UP)</p> <p>4) 220/132 kV 200 MVA ICT 4 at Gr-Noida(UP)</p> <p>5) 220kV Greater Noida - RC Green ckt-1</p> <p>6) 220kV Greater Noida - RC Green ckt-2</p> <p>7) 220kV Greater Noida - Jajpura ckt</p> <p>8) 220kV Bus-2 at Gr-Noida(UP)</p>
7	GI-2	Uttar Pradesh	13-Apr-2024 19:06	13-Apr-2024 19:27	00:21	0	225	0.000	0.428	47150	52597	<p>During antecedent condition, 400/220kV 315 MVA ICT 1 at Obra_(UP) was already under shutdown for replacement of broken conductor. Active power flow in 400/220kV 315 MVA ICT 2 and 240 MVA ICT 3 at Obra_(UP) were 297MW and 230MW respectively.</p> <p>It is reported, after work completion and during closing of 220kV sequential isolator, its support structure of main pole portion of 220kV B phase broke and dropped down. At the same time, extension of shutdown also requested.</p> <p>It is 19:06hrs, both ICT-2 and ICT-3 tripped due to directional O/P protection operation.</p> <p>It is during the incident, 'SFP' for transmission at Obra_TPS(UP)(N) 'substation' didn't operate. As reported, optical fibre cable for SFP signal communication found damaged, which has been replaced with spare core. However, follow up is being done with OEM to implement an alarm system for identification of such failure of communication cable which is not available in current system.</p> <p>It is per PMU at Singrauli(NT), no fault is observed in the system.</p> <p>It is per SCADA, change in demand of approx. 225MW is observed in UP control area.</p>	<p>1) 400/220kV 315 MVA ICT 2 at Obra_(UP)</p> <p>2) 400/220kV 240 MVA ICT 3 at Obra_(UP)</p>
8	GD-1	Himachal Pradesh	19-Apr-2024 04:30	19-Apr-2024 05:30	01:00	0	150	0.000	0.298	43577	50338	<p>It is 220/66kV Uperlangal (HP) has double main bus scheme at both 220kV & 66kV level. During antecedent condition, power was flowing through 220/66kV 80/100MVA ICT-1 & 2 at Uperlangal(HP) to the feeders connected to 66kV level of Uperlangal(HP).</p> <p>It is reported, at 04:30 hrs, 220 kV Uperlangal-Kinvaun (HP) Ckt tripped on Y-N phase to earth fault due to Y-phase jumper broken. But as line CB at Uperlangal(HP) end of 220 kV Uperlangal-Kinvaun (HP) Ckt didn't open, LBB operated.</p> <p>It is per SCADA SOE, all other 220kV lines along with 220/66kV 80/100MVA ICT-1 & 2 at Uperlangal(HP) tripped which led to total blackout at Uperlangal (HP).</p> <p>It is per SCADA SOE, 5.65MW load is at Ghani(HP) also tripped during the same time (exact reason yet to be shared).</p> <p>It is per PMU at 400kV Nallaganj(PG), Y-N phase to earth fault is observed in the system with fault clearing time of 80ms.</p> <p>It is per SCADA, change in demand of approx. 150MW is observed in HP control area.</p>	<p>1) 220 kV Uperlangal-Kinvaun (HP) Ckt</p> <p>2) 220 kV Nallaganj(PG)-Uperlangal (HP) (HPSE) Ckt-1</p> <p>3) 220 kV Nallaganj(PG)-Uperlangal (HP) (HPSE) Ckt-2</p> <p>4) 220 kV Uperlangal-Wardman (HP) Ckt</p> <p>5) 220 kV Uperlangal-Badi (HP) Ckt</p> <p>6) 220/66kV 80/100MVA ICT-1 at Uperlangal(HP)</p> <p>7) 220/66kV 80/100MVA ICT-2 at Uperlangal(HP)</p>
9	GD-1	Jammu & Kashmir	29-Apr-2024 06:06	29-Apr-2024 07:11	01:05	14	15	0.030	0.027	46486	56269	<p>Power flow from Aulsteng(PS) to Drass(PG) to Kargil to Khatul to Leh (radial connection). Generation of Chutak is connected to Kargil and generation of Nimoo bagoo is connected to Leh.</p> <p>It is reported, at 06:06 hrs, 220 kV Aulsteng Drass (PG) Ckt tripped on R-B phase to phase fault with fault distance of 38.4km from Drass(PG).</p> <p>It is during the incident, 'SFP' for transmission at Obra_TPS(UP)(N) 'substation' didn't operate. As reported, optical fibre cable for SFP signal communication found damaged, which has been replaced with spare core. However, follow up is being done with OEM to implement an alarm system for identification of such failure of communication cable which is not available in current system.</p> <p>It is per PMU at Amargarth(NDGRD), R-B phase to phase fault is observed with fault clearing time of 120ms.</p> <p>It is per SCADA, change in demand of approx. 15MW is observed in JK control area.</p>	<p>1) 220 kV Aulsteng-Drass (PG) Ckt</p>

Details of Grid Events during the Month of April 2024 in Northern Region



Sl No.	Category of Grid Event (GI for GI-2/GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH-MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t. Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
10	GI-1	Jammu & Kashmir	29-Apr-2024 01:43	29-Apr-2024 02:51	01:08	80	35	0.173	0.063	46136	55963	<p>132kV Sewa-II(NHPC) has double main bus scheme. During antecedent condition, 132 KV Sewa_2(NH) Mahanpur(PG) Ckt, 132 KV Sewa_2(NH)-Hiranagar(PDG) (PG) Ckt-1 and 40 MW Sewa-II HPS- UNIT 1 & 2 were connected to 132kV Bus-2 at Sewa-II (NHPC) and 132 KV Sewa_2(NH) Kathua(JK) (PG) Ckt, 132 KV Sewa_2(NH)-Hiranagar(PDG) (PG) Ckt-2 and 40 MW Sewa-II HPS- UNIT 3 & 4 were connected to 132kV Bus-1 at Sewa-II (NHPC). 40 MW Sewa-II HPS- UNIT 1, 2 & 3 were generating approx. 40MW each. At 132kV Mahanpur(JK), power was coming from Sewa-II(NHPC) and going to Kathua(JK).</p> <p>At 01:43 hrs, bottom conductor of 220 KV Thrin - Chauri Ckt (DPD) snapped over Gantry tower location no. 158 - 159.</p> <p>At 01:43 hrs, per DR of 132 KV Sewa_2(NH) (end) Kathua(JK) (PG) Ckt, 3 phase fault is observed; fault current: I_r=2327A, I_y=2306A, I_b=2214A. Fault was sensed in zone-2 at Sewa-II(NHPC) end and carrier received signal was already persisting throughout the DR time. As carrier received signal was already triggered, on operation of zone-2 protection, relay issued 3-phase trip command. Bus line CB didn't open and after a delay of 300ms LBB operated.</p> <p>Due to LBB operation, all the elements connected to bus-2 tripped and Bus-2 became dead.</p> <p>During the same time, 132 KV Kathua(JK) Mahanpur(JK) (PG) Ckt also tripped as reported (exact reason yet to be shared). Hence, 132 KV Sewa_2(NH) Mahanpur(JK) (PG) Ckt also tripped due to loss of evacuating line.</p> <p>At 02:51 hrs, per PMU at Kishenpur(PG), 3 phase fault with delayed fault clearance time of 400ms is observed.</p> <p>At 02:51 hrs, per SCADA, change in demand of approx. 35MW and loss of generation of approx. 80MW at Sewa-II are observed.</p> <p>At 02:51 hrs, 132 KV Sewa-II HPS- UNIT 1 & 2 were revived at 02:59 hrs and 02:51 hrs respectively.</p>	<p>1) 132 KV Sewa_2(NH) Kathua(JK) (PG) Ckt</p> <p>2) 132 KV Sewa_2(NH)-Hiranagar(PDG) (PG) Ckt-2</p> <p>3) 40 MW Sewa-II HPS- UNIT 1</p> <p>4) 40 MW Sewa-II HPS- UNIT 2</p> <p>5) 132 KV Kathua(JK) Mahanpur(JK) (PG) Ckt</p>
11	GD-1	Jammu & Kashmir	29-Apr-2024 03:35	29-Apr-2024 04:44	01:09	120	25	0.269	0.047	44606	53173	<p>132kV Sewa-II(NHPC) has double main bus scheme. During antecedent condition, only 132 KV Sewa_2(NH)-Hiranagar(PDG) (PG) Ckt-1 was in service through which all the generation of Sewa-II(NHPC) was evacuating. 40 MW Sewa-II HPS- UNIT 1, 2 & 3 were generating approx. 40MW each.</p> <p>At 03:35 hrs, 132 KV Sewa_2(NH)-Hiranagar(PDG) (PG) Ckt-1 tripped only from Sewa-II(NHPC) end (line has no auto reclose facility) on Y-N phase to earth fault.</p> <p>At 03:35 hrs, per DR of 132 KV Sewa_2(NH) (end)-Hiranagar(PDG) (PG) Ckt-1, fault was sensed in zone-1 at Sewa-II(NHPC) end. Y-ph voltage (ph) reduced upto ~59.42kV and Y-ph current increased upto ~1035A.</p> <p>At 03:35 hrs, 132 KV Sewa_2(NH) (end)-Hiranagar(PDG) (PG) Ckt-1 was the only evacuating line available during antecedent condition, frequency swing was observed which led to the tripping of all the three running units on operation of over speed protection.</p> <p>At 03:35 hrs, per PMU at Kishenpur(PG), two consecutive Y-N phase to earth faults with fault clearance time of 80ms are observed in the system.</p> <p>At 03:35 hrs, per SCADA, change in demand of approx. 25MW and loss of generation of approx. 120MW at Sewa-II are observed.</p>	<p>1) 132 KV Sewa_2(NH)-Hiranagar(PDG) (PG) Ckt-1</p> <p>2) 40 MW Sewa-II HPS- UNIT 1</p> <p>3) 40 MW Sewa-II HPS- UNIT 2</p> <p>4) 40 MW Sewa-II HPS- UNIT 3</p>
12	GD-1	Uttar Pradesh and Uttarakhand	30-Apr-2024 00:16	30-Apr-2024 00:47	00:31	146	60	0.289	0.104	50468	57536	<p>At 00:16 hrs, 82.5*4 MW Alaknanda HEP, 110*4MW Vishnuprayag HEP and 33*3MW Singoli Bhatwari HEP evacuates through 400 KV Alaknanda GVK (UPC)-Muzaffarnagar(UP) Ckt and 400 KV Vishnuprayag(UP)-Muzaffarnagar (UP) (UP) Ckt. During antecedent condition, only 110MW unit-1 at Vishnuprayag HEP and 33MW unit-2 & 3 at Singoli Bhatwari HEP were in running condition and generating approx. 33MW, 28MW and 27MW respectively. No generation was there at Alaknanda HEP.</p> <p>At 00:16 hrs, per DR of 400 KV Vishnuprayag(UP)-Muzaffarnagar (UP) (UP) Ckt, tripped on R-ph phase to earth fault. As per PMU, fault current was ~2.7kA from Muzaffarnagar end. As per DR, fault was sensed in zone-1 at Muzaffarnagar end and fault current was 3.787kA from Muzaffarnagar end. A/R started in R-ph; R-ph CB closed from Vishnuprayag after ~750ms. Three phase tripping occurred from Muzaffarnagar end after ~1050ms due to A/R lockout.</p> <p>At 00:16 hrs, as reported, at 00:16 hrs, bus bar protection operated (zone-1 in bus bar differential relay) at 400KV Bus 1 at Muzaffarnagar(UP) due to damage of R-ph CB pole PIR (Pre Insertion Resistor) of 400 KV Vishnuprayag(UP)-Muzaffarnagar (UP) (UP) Ckt. Due to this all the elements connected to Bus 1, e.g., 400 KV Alaknanda GVK(UPC)-Muzaffarnagar (UP) (UP) Ckt, 400/220 KV 315 MVA ICT 2 and 3 at Muzaffarnagar(UP) tripped and Bus 1 became dead. 400 KV Meerut(PG)-Muzaffarnagar(UP) (PG) Ckt was hand tripped due to isolator sparking at Muzaffarnagar end.</p> <p>At 00:16 hrs, with the tripping of both 400 KV Vishnuprayag(UP)-Muzaffarnagar(UP) (UP) Ckt and 400 KV Alaknanda GVK(UPC)-Muzaffarnagar (UP) (UP) Ckt, 110MW unit-1 at Vishnuprayag HEP tripped due to unavailability of power evacuating path.</p> <p>At 00:16 hrs, due to tripping of 220 KV Singoli Bhatwari(Singoli(TLUPH)) (end)-Srinagar(UK) (PTCLU) Ckt-1 & 2, 33 MW Singoli Bhatwari(Singoli(TLUPH)) HPS- UNIT 2 & 3 tripped due to unavailability of power evacuating path.</p> <p>At 00:16 hrs, due to this event, complete blackout occurred at 400KV Vishnuprayag HPS(UP) and 220KV Singoli Bhatwari HPS(Singoli(TLUPH)) S/s.</p> <p>At 00:16 hrs, per PMU at Muzaffarnagar(UP), Y-N phase to phase fault with fault clearance time of 120 ms is observed.</p> <p>At 00:16 hrs, per SCADA, no change in demand in UP control area and change in demand of approx. 60MW in Uttarakhand control area are observed. Generation loss of approx. 91MW and 55MW are observed at Vishnuprayag HEP and Singoli Bhatwari HEP respectively.</p>	<p>1) 400 KV Vishnuprayag(UP)-Muzaffarnagar (UP) (UP) Ckt</p> <p>2) 400 KV Alaknanda GVK(UPC)-Muzaffarnagar (UP) (UP) Ckt</p> <p>3) 400KV Bus 1 at Muzaffarnagar(UP)</p> <p>4) 400/220 KV 315 MVA ICT 2 at Muzaffarnagar(UP)</p> <p>5) 400 KV Meerut(PG)-Muzaffarnagar(UP) (PG) Ckt</p> <p>6) 220 KV Vishnuprayag HPS- UNIT 1</p> <p>7) 220 KV Singoli Bhatwari (Singoli(TLUPH)) (end)-Srinagar(UK) (PTCLU) Ckt-1</p> <p>8) 220 KV Singoli Bhatwari (Singoli(TLUPH)) (end)-Srinagar(UK) (PTCLU) Ckt-2</p> <p>9) 33 MW Singoli Bhatwari (Singoli(TLUPH)) HPS- UNIT 2</p> <p>10) 33 MW Singoli Bhatwari (Singoli(TLUPH)) HPS- UNIT 3</p> <p>11) 33 MW Singoli Bhatwari (Singoli(TLUPH)) HPS- UNIT 3</p>

Details of Grid Events during the Month of April 2024 in Western Region



Sl No.	Category of Grid Event (GI for GI2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t. Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	WR	08:14 / 01-04-2024	11:55 / 01-04-2024	03:41	41	-	0.06%	-	73481	62116	At 08:14 Hrs / 01-04-2024, 400 kV Khavda PS1-Khavda PS2 tripped due to over voltage stage-1 protection operation (main-1 relay maloperated) at Khavda PS2. Voltage at both the ends were within the normal operating limits, on inspection it was found that main 1 (GE make L90) maloperated and DT was sent to Khavda PS1 end. Generation loss of 41 MW occurred at khavda PS2 (40kV) due to loss of evacuation path.	Tripping of following Elements: 1. 400 kV Khavda PS1-Khavda PS2
2	GD-1	WR	18:12 / 02-04-2024	22:56 / 02-04-2024	04:44	148	-	0.19%	-	78116	64061	At 18:12 Hrs / 02-04-2024, 220 kV Bhu-Gadhisa tripped due on Y-E fault. During patrolling no abnormality was found. Generation loss of 148 MW occurred at Gadhisa (Renew Power) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhu-Gadhisa
3	GD-1	WR	05:15 / 03-04-2024	06:54 / 03-04-2024	01:39	129	-	0.17%	-	74270	61146	At 05:15 Hrs / 03-04-2024, 220 kV Indore(PG)-Pritamnagar(AWEMP1P1) tripped due on R-E fault. R phase tripped at Indore(PG) end and other phase tripped from Pritamnagar end on Zone-2. As per Pritamnagar end carrier not received at Pritamnagar. During patrolling no abnormality was found. Generation loss of 129 MW occurred at Pritamnagar(AWEMP1P1) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Indore(PG)-Pritamnagar(AWEMP1P1)
4	GD-1	WR	05:30 / 03-04-2024	07:02 / 03-04-2024	01:32	-	1235	-	1.99%	74394	61921	At 05:30 Hrs / 03-04-2024, 220 kV Suhela-Bhatpara-1 tripped on R-E fault from Suhela end only and no signal picked up at Bhatpara end. Subsequently, other lines at Suhela tripped on overcurrent protection operation resulting in blackout at Suhela, Parawan,Bemetra and Sarapalli station. Prior to the event, 220 kV Bhilai-Bemetra was under forced outage. Load loss of around 1235 MW occurred at Suhela and adjacent station due to the event.	Tripping of following Elements: 1. 220 kV Bhatpara-Suhela-1,2&3 2. 220 kV DSPM-Suhela 3. 220 kV Suhela-Bemetra-1&2 4. 220 kV Suhela-Parawan-1&2 5. 220 kV Suhela-Banari 6. 220 kV Suhela-Bus-1&2
5	GD-1	WR	11:19 / 03-04-2024	21:08 / 03-04-2024	09:49	328	-	0.42%	-	78983	69244	At 11:19 Hrs / 03-04-2024, 220 kV AgarS(Umarja)-Pachora tripped from AgarS(Umarja) end on Y phase differential protection operation and auto recloser successful at Pachora substation. Generation loss of 328 MW occurred at Umarja (Bempow) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV AgarS(Umarja)-Pachora
6	GD-1	WR	17:32 / 03-04-2024	19:52 / 03-04-2024	02:20	140	-	0.18%	-	79846	66826	At 17:32 Hrs / 03-04-2024, 220 kV Bhu-Gadhisa tripped due on B-E fault. During patrolling no abnormality was found. Generation loss of 140 MW occurred at Gadhisa (Renew Power) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhu-Gadhisa
7	GI-2	WR	04:30 / 05-04-2024	09:51 / 05-04-2024	05:21	-	-	-	-	77738	62423	At 04:30 Hrs / 05-04-2024, 400 kV Navsar(PG)-Bus 2 tripped on Y-E Bus Bar differential protection operation resulting in tripping of all connected elements (400 kV Navsar(PG)-Kakrapar-1, 400 kV Navsar(PG)-Gandhar-1, 400 kV Navsar(PG)-DGEN-2, 400 kV Navsar(PG)-Magdewa-2, 400/220 kV Navsar(PG)-ICT-1&2). On inspection it was found that 56 gas of B2 Compartment of 411898 Isolator of 400kV Side of Navsar(PG)-ICT-3 was highly contaminated with SO2 gas. Prior to the event, 400 kV Kakrapar-Vapi-1&2 were under outage for LLD arrangement of Kakrapar Vapi 1&2 at 400 kV Vapi-II. Manual generation shutdown of 300 MW done at Kakrapar by NPLC due to transmission constraints. No load loss / generation loss occurred due to the event.	Tripping of following Elements: 1. 400 kV Navsar(PG)-Bus 2 2. 400 kV Navsar(PG)-Bus Reactor 3. 400 kV Navsar(PG)-Kakrapar-1 4. 400 kV Navsar(PG)-Gandhar-1 5. 400 kV Navsar(PG)-DGEN-2 6. 400/220 kV Navsar(PG)-ICT-1&2 7. 400 kV Navsar(PG)-Magdewa-2
8	GD-1	WR	14:41 / 05-04-2024	15:09 / 05-04-2024	00:28	470	900	0.57%	1.29%	83076	69695	At 14:41 Hrs / 05-04-2024, 220 kV Korba(E)-Korba(W)-1 tripped from Korba(E) end on zone-2 operation and Earth fault operation at Korba(W) end. At same time 220 kV DSPM-Mopka tripped (reason not given by CSPCL). Prior to the event, 220 kV Dardehi-Bhatpara and 220 kV Korba(W)-Mopka were under outage. With tripping of 220 kV DSPM-Mopka, load on Mopka end was being met through 220 kV Chhuri-Mopka-1&2 resulting in high loading on lines connected to 220 kV Chhuri. Further, R phase jumper of 220 kV Korba(E)-Chhuri-1 broke at Korba(E) end and line tripped on pole discrepancy operation. Subsequently, multiples lines tripped leading to blackout of Chhuri, Mopka, Dardehi, Bishrampur, Jammipalli and Kharmora. Generation loss of 470 MW at DSPM (Chhattisgarh) and load loss of around 900 MW occurred due to the event.	Tripping of following Elements: 1. 220 kV Korba(E)-Chhuri-1&2 2. 220 kV Korba(E)-Bhatpara-1&2 3. 220 kV Korba(E)-Bus 2 4. DSPM Unit-1&2 (250 MW) 5. 220 kV Korba(E)-Korba(W)-1&2 6. 220 kV DSPM-Mopka 7. 220 kV Chhuri-Mopka-1&2
9	GD-1	WR	12:41 / 06-04-2024	13:10 / 06-04-2024	00:29	-	700	-	1.03%	79999	67922	At 12:41 Hrs / 06-04-2024, 220 kV Korba(W)-Chhuri-2 tripped on R-E fault. Subsequently, 220 kV Korba(W)-Chhuri-1 tripped at Korba(W) on over current protection operation and DT sent to Chhuri end. Prior to the event 220 kV Mopka-Dardehi-D/C were under outage and load at Mopka end was being fed by Chhuri. Also many other lines at adjacent stations were under outage (details awaited from CSPCL). Chhuri, Mopka, Dardehi, Bishrampur, Jammipalli, Kharmora and Renik substation were blackout. Load loss of around 700 MW occurred due to the event.	Tripping of following Elements: 1. 220 kV Korba(W)-Chhuri-1&2 2. 220 kV Korba(W)-Mopka-1 3. 220 kV Chhuri-Bishrampur-1&2 4. 220 kV Mopka-Dardehi-1&2
10	GD-1	WR	12:43 / 07-04-2024	14:08 / 07-04-2024	01:25	328	-	0.45%	-	72783	65783	At 12:43 Hrs / 07-04-2024, 220 kV AgarS(Umarja)-Pachora tripped from AgarS(Umarja) end on B phase differential protection operation and auto recloser successful at Pachora substation. Generation loss of 328 MW occurred at Umarja (Bempow) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV AgarS(Umarja)-Pachora
11	GI-2	WR	09:31 / 08-04-2024	10:03 / 08-04-2024	00:32	-	198.5	-	0.30%	75915	66206	At 09:31 Hrs / 08-04-2024, LBB operation of 400 kV Lonkhand-Bus-1 during closing of 220 kV side Circuit Breaker of 400/220 kV Lonkhand-ICT-1 resulting in tripping of all elements connected to 400 kV Lonkhand-Bus-1. Prior to these tripping 400/220 kV Lonkhand-ICT-1 was under shutdown for oil filtration work. During closing of 220 kV side Circuit Breaker of 400/220 kV Lonkhand-ICT-1, LBB signal was sent by the relay. The defective relay of 400/220 kV Lonkhand-ICT-1 has been replaced by MSETCL. Load loss of 198.5 MW occurred due to the event.	Tripping of following elements: 1. 400 kV Lonkhand-Bus-1 2. 400/220 kV Lonkhand-ICT-2 3. 400 kV Lonkhand-Pune(PG)-1 4. 400 kV Lonkhand-Lonkhand-2
12	GD-1	WR	12:38 / 09-04-2024	17:35 / 09-04-2024	04:57	281	-	0.37%	-	76011	66773	At 12:38 Hrs / 09-04-2024, 220 kV AgarS(Umarja)-Pachora tripped from AgarS(Umarja) end on B phase differential protection operation and auto recloser successful at Pachora substation. Generation loss of 281 MW occurred at Umarja (Bempow) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV AgarS(Umarja)-Pachora
13	GI-2	WR	08:08 / 20-04-2024	09:59 / 20-04-2024	01:51	-	22	-	0.03%	74778	63183	At 08:08 Hrs / 20-04-2024, R phase Current Transformer of 400 kV Nagda-Badnawa-2 at Nagda burst and Y phase CT also got damaged leading to oil leakage, both R and Y phase tripped. Due to non opening of phase breaker of 400 kV Nagda-Badnawa-2 at Nagda, LBB (Local Breaker Backup) protection operated in 400 kV Nagda-Bus-1&2 in no other element is in dia of 400 kV Nagda-Badnawa-2. All the main bays connected to 400 kV Nagda-Bus-1&2 opened due to LBB operation. 400 kV Nagda-Mandsaur-1&2, 400 kV Nagda-Shujipur-1&2, 400 kV Nagda-Dehgam-1&2, 400 kV Nagda-Ujjain-1&2 and 400/220 kV Nagda-ICT-3 were in service through respective tie bays. 400/220 kV Nagda-ICT-4 tripped on B phase differential protection operation due to flashover caused by burning oil which spread from Y phase CT of 400 kV Nagda-Badnawa-2 in adjacent bay. 400 kV Nagda-Badnawa-1 tripped on B-E fault (Zone-1) due to flashover caused by burning oil which spread from Y phase CT of 400 kV Nagda-Badnawa-2 in adjacent bay. 400 kV Nagda-Indragiri tripped due to no other element connected in dia at Nagda end and DT sent to Indragiri end. 400/220 kV Nagda-ICT-1 tripped because 400 kV Nagda-Bus Reactor was connected in dia at 400 kV Nagda end. At Badnawa end, R phase breaker of 400 kV Nagda-Badnawa-2 didn't open resulting in LBB operation of 400 kV Badnawa-Main Bus-2 and at the same time 400 kV Badnawa-Main Bus-1 tripped on End fault (Busbar) protection operation which was a maloperation. With this 400 kV side of Badnawa substation became dead. Load loss of 22 MW occurred due to the event as the 220 kV network at Nagda and Badnawa were intact.	Tripping of following Elements: 1. 400 kV Nagda-Bus-1&2 2. 400 kV Nagda-Badnawa-2 3. 400/220 kV Nagda-ICT-1&2 4. 400 kV Nagda-Badnawa-1 5. 400 kV Nagda-Indragiri 6. 400 kV Nagda-Bus Reactor 7. 400 kV Badnawa-Main Bus-1&2 8. 400 kV Badnawa-Nagda-1&2 9. 400 kV Badnawa-Pritampur-1&2 10. 400/220 kV Badnawa-ICT-1&2 11. 400 kV Badnawa-Bus Reactor
14	GI-2	WR	20:15 / 23-04-2024	00:34 / 24-04-2024	04:19	1800	-	0.022756005	-	79100	62309	At 20:15 Hrs / 23-04-2024, 400 kV Tiroda-Warora-2 tripped on persistent R-E fault after successful auto recloser attempt. Due to failure of R phase breaker pole of main bay of 400 kV Tiroda-Warora-2 at Tiroda (R phase pole found cracked), 400 kV Tiroda-Warora-1 tripped from Warora end on 2-2 protection operation and 765 / 400 kV Tiroda-ICT-1 tripped on earth fault protection operation. After 300 msec of tripping of 400 kV Tiroda-Warora-2, Tiroda (Adani) Unit-1,2 & 3 (660 MW*3) tripped due to differential protection operation of GTs on R-E fault which was undesirable. As informed by (Tiroda) Adani, maloperation of the relays of GTs is under inspection and it may be due to CT saturation of GTs due to high fault current as the fault was near to generating station (4 km from Tiroda end). With these tripping, 400 kV Tiroda-Bus-1&2 became dead due to no voltage source. As informed by Adani-Tiroda, there were heavy storm and lightning near Tiroda during the event. Generation loss of about 1800 MW occurred at APML Tiroda.	Tripping of following Elements: 1. 400 kV Tiroda-Warora-1&2 2. Tiroda (Adani) Unit-1,2 & 3 (660 MW*3), 3. 765 / 400 kV Tiroda-ICT-1 4. 400 kV Tiroda-Bus-reactor-1&2

Details of Grid Events during the Month of April 2024 in Western Region



Sl No.	Category of Grid Event (GI for GI-2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t. Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
15	GI-2	WR	13:49 / 26-04-2024	14:33 / 26-04-2024	00:44	-	976	-	0.01423	75907	68586	At 13:49 Hrs / 26-04-2024, 400 kV Pune(PG)-Bus-2 Y phase conductor snapped resulting in Busbar protection operation. Prior to the tripping 407 bay (Main bay of 400 kV Pune(PG)-Pune(GS)-2) at Pune(PG) was under planned shutdown for AMP work, due to this 400 kV Pune(PG)-Pune(GS)-2 and 400 kV Pune(PG)-Pune(GS)-3 power flow became zero as they are in same dia at 400 kV Pune(PG). 400/220 kV Pune(PG)-CT-18.2 Tripped from LV side only during bus bar protection operation which is undesirable. As informed by Powergrid, the maloperation of relay is under investigation. Load loss of 976 MW occurred in Pune area due to LTS operation and DLS (Distress Load Shedding) by Maharashtra.	Tripping of following Elements: 1. 400 kV Pune(PG)-Bus-2 2. 400/220 kV Pune(PG)-CT-18.2
16	GD-1	WR	18:54 / 30-04-2024	20:43 / 30-04-2024	01:49	244	-	0.002959656	-	82442	66681	At 18:54 Hrs / 30-04-2024, 220 kV Bhuj-Gadhisa tripped due on B-E fault. During patrolling no abnormality was found. Generation loss of 244 MW occurred at Gadhisa (Renew Power) due to loss of evacuation path.	Tripping of following Elements: 1. 220 kV Bhuj-Gadhisa

Details of Grid Events during the Month of April 2024 in Southern Region



Sl No.	Category of Grid Event (GI for GI 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HHEMM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	Karnataka	06-04-2024 18:19	06-04-2024 18:34	0:15	0	415	0.00%	0.80%	40775	52025	Tripping of 220kV Bus-1 220kV/110kV Kemar SS and Complete Outage of 220kV/110kV Kavoor SS and 220kV/110kV MSEZ SS of KPTEL: As per the reports submitted, while charging 220kV/110kV Transformer 3 of 220kV/110kV Kemar SS, 220kV Bus-1 IBB operated and all the elements connected to 220kV/110kV Kemar Bus-1 tripped. Since 220kV/110kV Kavoor SS and 220kV/110kV MSEZ SS are being radially fed from 220kV Bus-1 220kV/110kV Kemar SS tripping of the bus resulted in complete outage of Kavoor and MSEZ.	1. 220kV Kemar UPCL Line-1&2 2. 220kV Kemar Bajpe Line-1&2 3. 220kV Kemar Kavoor Line-3 4. 220kV/110kV Kemar Transformer-1&3
2	GD-1	Karnataka	13-04-2024 18:10	13-04-2024 19:47	1:37	62	31	0.16%	0.06%	38387	48567	Complete Outage of 220kV/33kV Gopalpura SS of SUZLON_KAR: As per the reports submitted, the triggering incident was 33kV level fault at 220/33kV Gopalpura station. However due to DC Supply failure at 220kV/33kV Gopalpura SS, the fault was cleared by the tripping of the lines connected to Gopalpura at remote ends causing a complete outage of the station. Wind Gen Loss: 62 MW	1. 220kV Gopalpura Hassan 2. 220kV Gopalpura Tubinere
3	GD-1	Tamil Nadu	14-04-2024 18:19	14-04-2024 23:44	05:25	0	420	0.00%	0.94%	35345	44837	Complete Outage of 230kV/110kV Acharapakkam SS, 230kV/110kV Villupuram SS, 230kV/110kV Thiruvannamalai SS of TANTRANSCO and Multiple trippings at 230kV/110kV NNTTP Generating station and tripping of 230kV Bus-1 of 230/110kV Cuddalore SS of TANTRANSCO: During antecedent conditions, 230kV/110kV Acharapakkam SS, 230kV/110kV Villupuram SS, 230kV/110kV Cuddalore SS, 230kV/110kV Thiruvannamalai SS are being fed from 400kV/110kV NNTTP ICTs and 220kV Maps Acharapakkam line. As per the reports submitted, the triggering incident was tripping of 400kV/110kV NNTTP ICT-1 on PRD. Subsequently, 400kV/110kV NNTTP ICT-2, 230kV MAPS Acharapakkam line and 230kV Singaperi-Thiruvannamalai tripped on over loading. Tripping of all sources led to complete outage of 230kV/110kV Acharapakkam SS, 230kV/110kV Villupuram SS, 220kV/110kV Cuddalore SS, 230kV/110kV Thiruvannamalai SS.	1. 400kV/110kV NNTTP ICT-1&2 2. 230kV MAPS Acharapakkam Line 3. 230kV Singaperi Thiruvannamalai
4	GD-1	Tamil Nadu	18-04-2024 04:31	21-04-2024 08:44	04:11	0	0	0.00%	0.00%	41829	52302	Complete Outage of 765kV/400kV NCPSS of TANTRANSCO and 765kV/400kV NCTPS Stage-3 of TANGEDCO: During antecedent conditions, 765kV Ariyalur NCPSS Line-2 was under outage: As per the reports submitted, the triggering incident was Y-N fault in 765kV-ARIYALUR-NCPSS-1 and the line tripped. Tripping of only source resulted in complete outage of 765kV/400kV NCPSS and which in turn led to complete outage of 765kV/400kV NCTPS Stage-3.	1. 765kV NCPSS Ariyalur Line-1
5	GD-1	Karnataka	18-04-2024 15:49	18-04-2024 17:27	01:38	30	0	0.06%	0.00%	51512	64484	Complete Outage of 220kV Ayana_Six_Koppal: As per the reports submitted, 220kV-KOPPAL-Ayana_Six_Koppal-1 line tripped only at Ayana_Six_Koppal on over current protection due to R-Y fault in a downstream 33kV Line. Tripping of the only connected line led to complete outage of 220kV-KOPPAL-Ayana_Six_Koppal-1. Wind Gen Loss: 30 MW	1. 220kV-KOPPAL-Ayana_Six_Koppal-1
6	GD-1	Tamil Nadu	21-04-2024 04:01	21-04-2024 09:36	05:35	0	0	0.00%	0.00%	41489	49432	Complete Outage of 765kV/400kV NCPSS of TANTRANSCO and 765kV/400kV NCTPS Stage-3 of TANGEDCO: As per the reports submitted, the triggering incident was Y-N fault in 765kV-ARIYALUR-NCPSS-1 and the line tripped, subsequently, 765kV-ARIYALUR-NCPSS-2 tripped on over voltage protection at NCPSS end. Tripping of both lines resulted in complete outage of 765kV/400kV NCPSS and which in turn led to complete outage of 765kV/400kV NCTPS Stage-3.	1. 765kV NCPSS Ariyalur Line-1&2
7	GD-1	Karnataka	22-04-2024 15:53	22-04-2024 17:15	01:22	36	180	0.07%	0.29%	48909	62001	Complete Outage of 220kV Nadhihal Pooling Station, 220kV GM Navar SS, 220kV/110kV Bijapur SS, 220kV/110kV Indi SS, and 220kV/110kV Aheri SS: 220kV Nadhihal Pooling Station is operating with single bus. As per the reports submitted, the triggering incident was R-N fault in 220kV Kudgi Nadhihal Line-3. At Nadhihal end, the fault was not cleared and IBB operated. Immediately, all lines connected to 220kV Nadhihal bus tripped resulting in complete outage of 220kV Nadhihal Pooling Station. This further led to complete outage of 220kV/110kV Bijapur SS, 220kV/110kV Indi SS, and 220kV/110kV Aheri SS. Solar Gen Loss: 36 MW	1. 220kV Kudgi Nadhihal 3,4,5&6 2. 220kV Nadhihal GM Navar Line-1&2 3. 220kV Nadhihal Bijapur Line-1&2
8	GD-1	Tamil Nadu	23-04-2024 04:40	23-04-2024 15:26	10:46	420	0	1.04%	0.00%	40364	49326	Complete Outage of 230kV NCTPS Generating station of TANGEDCO: As per the reports submitted, all 230kV Feeders connected to the generating station tripped on different faults. Subsequently, NCTPS Units tripped on over frequency protection. This resulted in complete outage of 230kV NCTPS Generating station.	1. 230kV NCTPS Tondiarpet Line-1&2 2. 230kV NCTPS - Alamyathi 3. 230kV NCTPS Kilpauk 4. 230kV NCTPS Sriperumbudur
9	GD-1	Tamil nadu	23-04-2024 05:46	23-04-2024 21:33	15:47	0	0	0.00%	0.00%	40904	49623	Complete Outage of 765kV/400kV NCPSS of TANTRANSCO and 765kV/400kV NCTPS Stage-3 of TANGEDCO: During antecedent conditions, 765kV/400kV NCPSS and 765kV/400kV NCTPS Stage-3 are being radially fed from 765kV Ariyalur-NCPSS Line-2 as 765kV Ariyalur-NCPSS Line-1 was under outage. The triggering incident is the Y-N fault in 765kV Ariyalur-NCPSS Line-2 at a distance of 232km from Ariyalur end. At Ariyalur end, the fault was sensed in carrier aided zone-2 and all three poles tripped. At NCPSS end, the fault was sensed in zone-1. A/R operated and line was holding. Tripping of only source led to complete outage of 765kV/400kV NCPSS and 765kV/400kV NCTPS Stage-3.	1. 765kV Ariyalur-NCPSS Line-2
10	GD-1	Karnataka	30-04-2024 12:31	30-04-2024 13:48	01:17	0	260	0.00%	0.40%	53367	64578	Complete Outage of 220kV/66kV Chintamani SS and 220kV/66kV Srivasapura SS of KPTEL: 220kV/66kV Chintamani SS and 220kV/66kV Srivasapura SS are being radially fed through 220kV Kolar Chintamani Line-1&2. At 12:23hrs, 220kV Kolar Chintamani Line-2 tripped on R-N fault. Subsequently, 220kV Kolar Chintamani Line-1 tripped on R-N fault at 12:31hrs. Tripping of both lines led to complete outage of 220kV/66kV Chintamani SS and 220kV/66kV Srivasapura SS.	1. 220kV Kolar Chintamani Line-1&2

Details of Grid Events during the Month of April 2024 in Eastern Region



Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI for GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD-1	Chatra	06.04.2024 14:05	06.04.2024 15:01	00:56	0	40	0.00%	0.15%	27564	26265	At 14:05, 220kV Chatra-Latehar tripped only from Latehar end in Zone-2. At the same time, 220kV Chatra Daltonguri-1 tripped in 2-4 from Chatra end. This led to total power failure at 220kV Chatra S/S with approximate load loss of 40MW. At 15:01 Hrs, 220kV Chatra-Latehar was charged and power was restored at Chatra S/s.	220 kV Latehar-Chatra-1 220 kV Daltonguri-Chatra-1
2	GD-1	Tenughat	18.04.2024 22:12	18.04.2024 23:42	01:30	300	0	1.01%	0.00%	29829	28679	At 22:12 hrs., an insulator flashover occurred in 220 kV Bus#1 Yphase at 400/ 220kV Tenughat(Jharkhand), 2x210MW generating station. Bus bar protection didn't operate and subsequently 220kV Tenughat-Bihansarif and 220kV Tenughat-Govindpur D/C tripped from remote ends in Zone-2. This caused tripping of both the running units at Tenughat and resulted in a generation loss of about 300MW. At 23:42 hrs, 220 kV Bus#2 was charged through 220 kV Tenughat-Bihansarif.	220 kV Tenughat-Govindpur-1 220 kV Tenughat-Govindpur-2 220 kV Tenughat-Bihansarif-1 2*210 MW Units at Tenughat
3	GD-1	Pratapasan	23.04.2024 14:22	23.04.2024 14:38	00:16	0	226	0.00%	0.88%	26628	25551	At 14:22 Hrs on 23.04.2024, 220 kV Pandabilli-Pratapasan D/C tripped due to operation of bus bar protection at Pratapasan during some testing work, leading to total power failure. Load loss of around 226 MW occurred at Pratapasan.	220 kV Pandabilli-Pratapasan D/c
4	GD-1	Kasba	25.04.2024 21:42	25.04.2024 22:05	00:23	0	601	0.00%	2.06%	32264	29135	At 21:42 Hrs on 25.04.2024, B_ph CT of 220 kV Kasba-Subahshgram-1 burst at Kasba. Bus bar protection operated at Kasba and it has single main and transfer bus scheme, leading to total power failure. CESC system which was synchronized at Kasba got islanded. Total load loss of around 601 MW occurred.	220 kV Kasba-Subahshgram D/c 220 kV Kasba-Barasat D/c 220 kV Kasba-EMSS South (CESC) D/c 2*150 MVA 220/132 kV ATR-1&2 2*160 MVA 220/132 kV ATR-3&4
5	GD-1	Kasba	25.04.2024 23:17	25.04.2024 23:26	00:09	0	489	0.00%	1.64%	32958	29782	At 23:17 Hrs on 25.04.2024, 220 kV Kasba-subahshgram-2 tripped on O/c with current reaching around 1180 A in each phase. Load restriction scheme is also implemented in the line which tripped 220 kV Kasba-Barasat D/c and 132 kV feeders at Kasba. Thereby 220 kV Kasba S/A became dead. CESC system got islanded again. Load loss of around 489 MW occurred.	220 kV Kasba-Subahshgram-2 220 kV Kasba-Barasat D/c 220 kV Kasba-EMSS South (CESC) D/c 2*150 MVA 220/132 kV ATR-1&2 2*160 MVA 220/132 kV ATR-3&4

Details of Grid Events during the Month of April 2024 in North Eastern Region



Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
1	GD1	Chiephobozou area of Nagaland Power system	01-04-2024 15:36	01-04-2024 17:46	02:10:00	0	1	0.00%	0.05%	2178	2059	Chiephobozou area of Nagaland Power System was connected with rest of NER Grid through 132 kV Wokha – Chiephobozou and 132 kV Kohima- Chiephobozou lines. At 15:36 Hrs of 01-04-2024, 132 kV Wokha – Chiephobozou and 132 kV Kohima- Chiephobozou lines tripped. Due to tripping of these elements, Chiephobozou area of Nagaland Power System was isolated from NER Grid and collapsed due to no source available in these areas. Power was extended to Chiephobozou area of Nagaland Power System by charging 132 kV Kohima- Chiephobozou line at 17:49 Hrs of 01-04-2024.	132 kV Wokha – Chiephobozou and 132 kV Kohima- Chiephobozou lines
2	GD1	Lumshnong area of Meghalaya Power system	01-04-2024 03:40	01-04-2024 04:07	00:27:00	0	27	0.00%	2.48%	1798	1089	Lumshnong area of Meghalaya Power System was connected with rest of NER Grid through 132 kV Lumshnong – Khliehriat and 132 kV Lumshnong - Panchgram Lines. At 03:40 Hrs of 01-04-2024, 132 kV Lumshnong – Khliehriat and 132 kV Lumshnong - Panchgram Lines tripped. Due to tripping of these elements, Lumshnong area of Meghalaya Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Lumshnong area of Meghalaya Power System by charging 132 kV Lumshnong – Khliehriat line at 04:07 Hrs of 01-04-2024.	132 kV Lumshnong – Khliehriat and 132 kV Lumshnong - Panchgram Lines
3	GD1	Pasighat area of Arunachal Pradesh Power system	02-04-2024 21:55	03-04-2024 00:40	02:45:00	0	5	0.00%	0.22%	2680	2280	Pasighat area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Pasighat- Roing & 132 kV Along - Pasighat lines. At 21:55 Hrs of 02-04-2024, 132 kV Pasighat- Roing line & 132 kV Along - Pasighat line tripped. Due to tripping of these elements, Pasighat area of Arunachal Pradesh Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Pasighat area of Arunachal Pradesh Power System by charging 132 kV Pasighat- Roing line at 00:40 Hrs of 03-04-2024.	132 kV Pasighat- Roing & 132 kV Along - Pasighat lines
4	GD1	Zuangtui and radially connected Serchhip, Saitual, Khawawi and Vankal areas of Mizoram Power system	04-04-2024 16:21	04-04-2024 16:56	00:35:00	0	38	0.00%	1.58%	2064	2408	Zuangtui and radially connected Serchhip, Saitual, Khawawi and vankal areas of Mizoram power system were connected with rest of NER Grid through 132 kV Meitai(PG)Zuangtui line. 132 kV Serchhip- Lunglie line is kept open due to system requirement. At 16:21 Hrs of 04-04-2024, 132 kV Meitai(PG)Zuangtui line tripped. Due to tripping of this element, Zuangtui and radially connected Serchhip, Saitual, Khawawi and vankal areas of Mizoram Power system got isolated from NER grid due to no source available in this area. Power supply was extended to Zuangtui and radially connected Serchhip, Saitual, Khawawi and vankal areas Mizoram Power System by charging 132 kV Meitai(PG)Zuangtui line at 16:56 Hrs of 04-04-2024.	132 kV Meitai(PG)Zuangtui line
5	GD1	Dharmanagar area of Tripura and Dullavchhera area of Assam Power System	07-04-2024 11:52	07-04-2024 12:12	00:20:00	0	9	0.00%	0.46%	1853	1974	Dharmanagar area of Tripura Power System & Dullavchhera area of Assam Power System are connected with rest of NER Grid through 132 kV PK Bari-Dharmanagar and 132 kV Dullavchhera - Hallakandi lines. 132 kV P K Bari-Dharmanagar line was under outage since 09:15 Hrs of 07-04-2024 for facilitating shutdown of 132 kV PK Bari Substation. At 11:52 Hrs of 07-04-2024, 132 kV Dullavchhera-Hallakandi line tripped. Due to tripping of this element, Dharmanagar area of Tripura and Dullavchhera area of Assam power system got isolated from NER grid due to no source available in these areas. Power supply was extended to Dharmanagar and Dullavchhera areas by charging 132 kV Dullavchhera-Hallakandi line at 12:12 Hrs of 07-04-2024.	132 kV Dullavchhera-Hallakandi line
6	GD1	Depota, Rowta, Dhekiajuli and Tangla areas of Assam Power system	07-04-2024 13:41	07-04-2024 13:54	00:13:00	0	23	0.00%	1.25%	1774	1841	Depota, Rowta, Dhekiajuli, and Tangla areas of Assam Power System were connected with rest of NER Grid through 132 kV Depota Sonabil and 132 kV Depota Ghoramari. 132 kV Depota Dhekiajuli already under shutdown w.e.f. 10:48 for protection relay testing. At 13:29 Hrs of 07-04-2024, 132 kV Depota Sonabil and at 13:41 Hrs of 07-04-2024, 132 kV Depota Ghoramari lines tripped due to which Depota, Rowta, Dhekiajuli, and Tangla areas of Assam Power System were isolated from NER Grid and collapsed due to no source available in these areas. After tripping of the above lines, 132 kV Tangla GSS was shifted to 132 kV Rangla side to restore power to them at 15:40 hrs. 132 kV Depota Rowta was manually opened for safety purpose at 13:45 hrs. Later, 132 kV Sonabil Depota was charged at 13:54 hrs and 132 kV Depota Ghoramari was charged at 14:03 hrs. After that 132 kV Depota Rowta was manually closed at 14:04 hrs. After restoring at the mentioned lines 132 kV Tangla GSS was again shifted back to Rowta side.	132 kV Sonabil-Depota and 132 kV Depota-Ghoramari lines
7	GD1	Thoubal, Thoubal old, Kongba, Kakching, Chandel and Moreh area of Manipur Power system and Tamu load of Myanmar Power System	07-04-2024 13:59	07-04-2024 14:25	00:26:00	0	60	0.00%	3.38%	1865	1777	Thoubal, Thoubal old, Kongba, Kakching, Chandel and Moreh area of Manipur Power System and Tamu load of Myanmar Power System were connected with rest of NER Grid through 132 kV Yaingangpokpi – Kongba D/C Lines and 400/132 kV ICT at Thoubal (MSPCL). At 13:59 Hrs of 07-04-2024, 132 kV Yaingangpokpi – Kongba D/C Lines and 400/132 kV ICT at Thoubal tripped. Due to tripping of these elements, Thoubal, Thoubal old, Kongba, Kakching, Chandel and Moreh area of Manipur Power System and Tamu load of Myanmar Power System got isolated from NER grid due to no source available in these areas. Power supply was extended to Kongba S/S by charging 132 kV Yaingangpokpi – Kongba 2 Line at 14:25 Hrs of 07-04-2024. Power supply was extended to Kakching, Chandel, Moreh S/S of Manipur and Tamu load of Myanmar Power system by charging 132kV Kakching-Elangangpokpi line at 14:47 Hrs of 07-04-2024.	132 kV Yaingangpokpi – Kongba D/C Lines and 400/132 kV ICT at Thoubal
8	GD1	Along, Pasighat, Roing, Tezu, Namsai areas of Arunachal Pradesh and Chapakhowa area of Assam Power System	07-04-2024 19:45	07-04-2024 22:18	02:33:00	0	16	0.00%	0.60%	3172	2663	Chapakhowa area of Assam power system and Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh power system were connected with rest of NER grid through 132 kV Rupai-Chapakhowa and 132 kV Along-Basar lines. Prior to the event, 132 kV Along-Basar line tripped at 17:31 Hrs of 07-04-2024 due to falling of tree on the line. At 19:45 Hrs of 07-04-2024, 132 kV Rupai-Chapakhowa line tripped. Due to tripping of this element, Chapakhowa area of Assam Power System and Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh Power System were isolated from NER Grid and collapsed due to no source available in these areas. Power was extended to Chapakhowa area of Assam Power System by charging 132 kV Chapakhowa-Rupai line at 22:12 Hrs of 07-04-2024 and Along, Pasighat, Roing, Tezu and Namsai areas of Arunachal Pradesh power system by charging 132 kV Roing-Chapakhowa – B. II at 22:18 hrs & 22:20 hrs of 07-04-2024 respectively.	132 kV Rupai-Chapakhowa line
9	GD1	Monarchak generation and Rabindranagar area of Tripura Power system	08-04-2024 13:04	08-04-2024 13:29	00:25:00	75	10	4.44%	0.42%	1691	2362	Monarchak Generation and Rabindranagar area of Tripura Power System were connected with rest of NER Grid through 132 kV Monarchak – Udaipur and 132 kV Monarchak – Rokhia lines. Prior to the event, 132 kV Monarchak-Rokhia line was under planned shutdown. At 13:04 Hrs of 08-04-2024, 132 kV Monarchak-Udaipur line tripped. Due to tripping of this element, Monarchak generation and Rabindranagar area of Tripura Power System was isolated from NER Grid and collapsed due to load generation mismatch in these areas. Power was extended to Rabindranagar area of Tripura Power System by charging 132 kV Monarchak – Udaipur line at 13:29 Hrs of 08-04-2024.	132 kV Monarchak-Udaipur line, Monarchak GT & ST
10	GD1	Pasighat area of Arunachal Pradesh Power system	14-04-2024 14:29	14-04-2024 14:59	00:30:00	0	4	0.00%	0.17%	1589	2304	Pasighat area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Pasighat- Roing & 132 kV Along - Pasighat lines. At 14:29 Hrs of 14-04-2024, 132 kV Pasighat- Roing & 132 kV Along - Pasighat lines. Due to tripping of these elements, Pasighat area of Arunachal Pradesh Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Pasighat area of Arunachal Pradesh Power System by charging 132 kV Roing-Pasighat line at 14:59 Hrs of 14-04-2024.	132 kV Roing-Pasighat & 132 kV Along-Pasighat lines

Details of Grid Events during the Month of April 2024 in North Eastern Region



Sl No.	Category of Grid Event (GI Ior GI 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
11	GD1	Mawlai and Cherrapunji area of Meghalaya Power system	14-04-2024 17:15	14-04-2024 18:40	01:25:00	0	18	0.00%	0.75%	1848	2406	Mawlai & Cherrapunji areas of Meghalaya Power System were connected with rest of NER Grid through 132 kV Mawlai - Mawngap, 132 kV Mawlai - NEHU & 132 kV Mawlai - Umiam 1 lines. At 17:15 Hrs of 14-04-2024, 132 kV Mawlai - Mawngap, 132 kV Mawlai - NEHU & 132 kV Mawlai - Umiam 1 lines tripped. Due to tripping of these elements, Mawlai and Cherrapunji areas Meghalaya Power System were isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Mawlai area of Meghalaya Power System by charging 132 kV Mawlai-Mawngap line at 18:40 Hrs of 14-04-2024.	132 kV Mawlai - Mawngap, 132 kV Mawlai - NEHU & 132 kV Mawlai - Umiam 1 lines
12	GD1	Leshka generating station of Meghalaya Power system	15-04-2024 13:02	15-04-2024 13:27	00:25:00	0	0	0.00%	0.00%	1773	2429	Leshka Generating Station of Meghalaya Power System was connected with rest of NER Grid through 132 kV Leshka-Khliehriat D/C lines. At 13:02 Hrs of 15-04-2024, 132 kV Leshka-Khliehriat D/C lines tripped. Due to tripping of these elements, blackout of Leshka Generating Station of Meghalaya Power system occurred. Power restored to Leshka Generating Station of Meghalaya Power System by charging 132 kV Leshka-Khliehriat 1 line at 13:27 Hrs of 15-04-2024.	132 kV Leshka-Khliehriat D/C
13	GD1	New Umtru generating station of Meghalaya Power system	15-04-2024 14:52	15-04-2024 15:03	00:11:00	0	0	0.00%	0.00%	1680	2464	New Umtru Generating Station of Meghalaya Power System was connected with rest of NER Grid through 132 kV Umtru - New Umtru line and 132kV New Umtru - EPIP II line. At 14:52 Hrs of 15-04-2024, 132 kV Umtru - New Umtru line and 132kV New Umtru - EPIP II line. Due to tripping of these elements blackout of New Umtru Generating Station of Meghalaya Power system occurred. Power restored to New Umtru Generating Station of Meghalaya Power System by charging 132kV New Umtru - EPIP II line at 15:03 Hrs of 15-04-2024.	132 kV Umtru - New Umtru line and 132kV New Umtru - EPIP II line
14	GD1	Dhaligaon, Gossaigaon, Barpeta and part load of Bornagar areas of Assam Power System	16-04-2024 04:04	16-04-2024 04:32	00:28:00	0	82	0.00%	4.24%	1899	1932	Dhaligaon, Gossaigaon, Barpeta and part load of Bornagar areas of Assam Power System were connected with rest of NER Grid through 132 kV BTFS - Dhaligaon 1 & 2 Lines - 132 kV Gauripur-Gossaigaon was open to avoid overloading of 132 kV Barpeta-Nalbari line and 132 kV Barpeta-Nalbari line was kept open to avoid overloading of 132 kV BTFS - Dhaligaon D/C Lines. At 04:04 Hrs of 16-04-2024, 132 kV BTFS - Dhaligaon 1 & 2 Lines tripped. Due to tripping of these elements blackout of Dhaligaon, Gossaigaon, Barpeta and part load of Bornagar areas of Assam Power System occurred due to no source available in these areas.	132 kV BTFS - Dhaligaon 1 & 2
15	GD1	New Umtru Generating Station of Meghalaya Power System	16-04-2024 08:58	16-04-2024 09:26	00:28:00	0	0	0.00%	0.00%	1649	1956	New Umtru Generating Station of Meghalaya Power System was connected with rest of NER Grid through 132 kV Umtru - New Umtru line and 132kV New Umtru - EPIP II line. At 08:58 Hrs of 16-04-2024, 132 kV Umtru - New Umtru line and 132kV New Umtru - EPIP II line. Due to tripping of these elements blackout of New Umtru Generating Station of Meghalaya Power system occurred. Power restored to New Umtru Generating Station of Meghalaya Power System by charging 132kV New Umtru - EPIP II line at 09:26 Hrs of 16-04-2024.	132 kV Umtru - New Umtru line and 132kV New Umtru - EPIP II line
16	GD1	Rongkhon, Ampati area & Ganol HEP of Meghalaya Power System	16-04-2024 11:46	16-04-2024 13:00	01:14:00	0	30	0.00%	1.42%	1421	2108	Rongkhon, Ampati area & Ganol HEP of Meghalaya Power System is connected with rest of NER Grid through 132 kV Nangalibra-Rongkhon line. At 11:46 Hrs of 16-04-2024, 132 kV Nangalibra-Rongkhon line tripped. Due to tripping of this element, blackout of Rongkhon, Ampati area & Ganol HEP of Meghalaya Power System occurred. Power restored to Rongkhon, Ampati area & Ganol HEP of Meghalaya Power System by charging 132 kV Nangalibra-Rongkhon line at 13:00 Hrs of 16-04-2024.	132 kV Nangalibra-Rongkhon line
17	GD1	Wokha and Chiephobozou areas of Nagaland Power System	16-04-2024 23:42	17-04-2024 08:25	08:43:00	0	13	0.00%	0.60%	2053	2169	Wokha and Chiephobozou areas of Nagaland Power System were connected with rest of NER Grid through 132 kV Saniis-Wokha line and 132 kV Wokha-Chiephobozou - Kohima link. At 23:42 Hrs of 16-04-2024, 132 kV Saniis - Wokha line, 132 kV Wokha - Chiephobozou - Kohima link tripped. Due to tripping of these elements, Wokha and Chiephobozou areas of Nagaland Power System were isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Wokha and Chiephobozou areas of Nagaland power system by charging 132 kV Saniis-Wokha line at 08:25 Hrs of 17-04-2024.	132 kV Saniis - Wokha line, 132 kV Wokha - Chiephobozou - Kohima link tripped
18	GD1	Dhekijuli area of Assam Power system	17-04-2024 01:16	17-04-2024 01:30	00:14:00	0	11	0.00%	0.59%	1965	1860	Dhekijuli area of Assam power system is connected with the rest of NER grid through 132 kV Depota-Dhekijuli-Rowta link. At 01:16 Hrs of 17-04-2024, 132 kV Depota-Dhekijuli-Rowta link tripped. Due to tripping of these elements, Dhekijuli area of Assam power system got isolated due to no source available in this area. Power was extended to Dhekijuli area of Assam power system by charging 132 kV Rowta-Dhekijuli line at 01:30 Hrs of 17-04-2024.	132 kV Depota-Dhekijuli-Rowta
19	GD1	Ningthoukhong area of Manipur Power System	17-04-2024 10:25	17-04-2024 11:45	01:20:00	0	9	0.00%	0.47%	1480	1920	Ningthoukhong area of Manipur Power System were connected with rest of NER Grid through 132 kV Loktak - Ningthoukhong and 132kV Imphal(PG)-Ningthoukhong lines. 132 kV Ningthoukhong - Churachandpur 1 Line was under tripped condition from 15:21 Hrs of 26.03.2024 and 132 kV Ningthoukhong - Churachandpur 2 Line was under tripped condition from 09:25 Hrs of 17-04-2024. At 10:25 Hrs of 17-04-2024, 132 kV Loktak - Ningthoukhong and 132kV Imphal(PG)-Ningthoukhong lines tripped (while charging attempt of Ningthoukhong - Churachandpur 2 line). Due to tripping of these elements blackout of Ningthoukhong area of Manipur Power System occurred due to no source available in this area.	132 kV Loktak - Ningthoukhong and 132kV Imphal(PG)-Ningthoukhong lines
20	GD1	Wokha and Chiephobozou areas of Nagaland Power System	17-04-2024 18:19	17-04-2024 18:59	00:40:00	0	3	0.00%	0.11%	2933	2770	Wokha and Chiephobozou areas of Nagaland Power System was connected with rest of NER Grid through 132 kV Saniis-Wokha line and 132 kV Wokha-Chiephobozou line. Prior to the event, 132 kV Wokha-Chiephobozou line tripped at 11:42 Hrs of 17-04-2024. At 18:19 Hrs of 17-04-2024, 132 kV Saniis - Wokha line and 132 kV Wokha - Chiephobozou line tripped. Due to tripping of this element, Wokha and Chiephobozou areas of Nagaland Power System got isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Wokha and Chiephobozou areas of Nagaland power system by charging 132 kV Saniis-Wokha line at 18:59 Hrs of 17-04-2024.	132 kV Saniis - Wokha line

Details of Grid Events during the Month of April 2024 in North Eastern Region



Sl No.	Category of Grid Event (GI Ior GI 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
21	GD1	Kolasib area, Turial HEP & Bairabi Generating Station of Mizoram Power System	17-04-2024 19:58	17-04-2024 20:32	00:34:00	20	1	0.62%	0.04%	3202	2597	Kolasib area, Turial HEP & Bairabi Generating Station of Mizoram Power System were connected with rest of NER Grid through 132 kV Aizawl – Kolasib line. 132 kV Badrapur-Kolasib line was under outage since 16:39 Hrs of 17.04.2024. At 19:58 Hrs of 17-04-2024, 132 kV Aizawl – Kolasib line tripped. Due to tripping of this element Kolasib area, Turial HEP & Bairabi Generating Station of Mizoram Power System were isolated from NER Grid due to no source available in these areas. Power supply was extended to Kolasib area, Turial HEP & Bairabi Generating Station of Mizoram Power System by charging 132 kV Aizawl – Kolasib line at 20:32 Hrs of 17-04-2024.	132 kV Aizawl – Kolasib line
22	GD1	Serchhip area of Mizoram Power System	17-04-2024 20:30	-	-	0	5	0.00%	0.20%	3186	2543	Serchhip area of Mizoram Power System was connected with rest of NER Grid through 132 kV Zungtui – Serchhip line. 132kV Serchhip – Lunglei kept open for system requirement. At 20:30 Hrs of 17-04-2024, 132 kV Zungtui – Serchhip line tripped. Due to tripping of this element Serchhip area of Mizoram Power System was isolated from NER Grid and collapsed due to no source available in this area.	132 kV Zungtui – Serchhip line
23	GD1	Turial generating station of Mizoram Power System	18-04-2024 11:14	18-04-2024 11:55	00:41:00	0	0	0.00%	0.00%	1184	2108	Turial generating station of Mizoram Power System was connected with rest of NER Grid through 132kV-Turial-Kolasib line. At 11:14 Hrs of 18-04-2024, 132 kV Turial-Kolasib line tripped. Due to tripping of this Turial generating station of Mizoram Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power was extended to Turial generating station of Mizoram Power System by charging 132kV-Turial-Kolasib line at 11:55 Hrs of 18-04-2024.	132 kV-Turial-Kolasib line
24	GD1	Rabindranagar area & Monarchak Generating Units & Rokhia Generating Units of Tripura Power System	18-04-2024 03:40	18-04-2024 04:50	01:10:00	35	15	1.72%	0.94%	2030	1588	Rabindranagar area & Monarchak Generating Units & Rokhia Generating Units of Tripura Power System were connected with rest of NER Grid through 132 kV Monarchak – Udaipur line. 132 kV Agartala-Rokhia D/C lines were under outage since 03:07 Hrs. At 03:04 Hrs of 18-04-2024, 132 kV Monarchak – Udaipur line tripped. Due to tripping of this Rabindranagar area & Monarchak Generating Units & Rokhia Generating Units of Tripura Power System were isolated from NER Grid and collapsed due to load generation mismatch in this area. Power was extended to Rabindranagar area & Monarchak Generating Units & Rokhia Generating Units of Tripura Power System by charging 132 kV Monarchak – Udaipur line at 04:50 Hrs of 18-04-2024.	132 kV Monarchak – Udaipur line
25	GD1	Rengpang area of Manipur Power System	19-04-2024 19:52	20-04-2024 16:20	20:28:00	0	2	0.00%	0.08%	3201	2580	Rengpang area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak – Rengpang line. 132 kV Jiribam-Rengpang line was under outage since 18:18 Hrs of 17-11-2023. At 19:52 Hrs of 19-04-2024, 132 kV Loktak – Rengpang line tripped. Due to tripping of this element, Rengpang area of Manipur Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Rengpang area of Manipur power system by charging 132 kV Loktak-Rengpang line at 16:20 Hrs of 20-04-2024.	132 kV Loktak – Rengpang line
26	GD1	Turial Generating station of Mizoram Power System	20-04-2024 17:33	20-04-2024 18:08	00:35:00	38	0	1.59%	0.00%	2388	2389	Turial Generating station of Mizoram Power System was connected with rest of NER Grid through 132 kV Turial-Kolasib line. At 17:33 Hrs of 20-04-2024, 132 kV Turial-Kolasib line tripped. Due to tripping of this element, Turial Generating station was isolated from NER Grid leading to generation loss due to no evacuation path. Power was extended to Turial substation by charging 132 kV Turial-Kolasib line at 18:08 Hrs of 20-04-2024.	132 kV Turial-Kolasib line
27	GD1	Wokha area of Nagaland Power System	20-04-2024 21:40	20-04-2024 22:37	00:57:00	0	6	0.00%	0.27%	2277	2248	Wokha area of Nagaland Power System was connected with rest of NER Grid through 132 kV Sani – Wokha line and 132 kV Wokha – Chiephobozou line. At 21:27 Hrs of 20-04-2024, 132 kV Sani – Wokha line tripped and prior to restoration, 132 kV Wokha – Chiephobozou line line tripped at 21:40 Hrs. Due to tripping of these element, Wokha area of Nagaland Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Wokha area of Nagaland Power System, by charging 132 kV Sani – Wokha line at 22:37 Hrs of 20-04-2024.	132 kV Sani – Wokha line
28	GD1	Kohima area of Nagaland Power System	21-04-2024 12:11	21-04-2024 12:56	00:45:00	0	4	0.00%	0.20%	1769	1964	Kohima area of Nagaland Power System was connected with rest of NER Grid through 132 kV Kohima – Dimapur line, 132 kV Kohima – Karong line, 132 kV Kohima – Meluni line and 132 kV Kohima – Chiephobozou line. At 12:11 Hrs of 21-04-2024, 132 kV Kohima – Dimapur & 132 kV Kohima – Karong line tripped. Due to tripping of these element, as 132 kV Kohima – Meluni line and 132 kV Kohima – Chiephobozou line were already under outage prior to tripping of the above lines, Kohima area of Nagaland Power System was isolated from NER Grid and collapsed due to no source available in this area. Power was extended to Kohima area of Nagaland Power System by charging 132 kV Kohima – Dimapur line at 12:56 Hrs of 21-04-2024.	132 kV Kohima – Dimapur & 132 kV Kohima – Karong line
29	GD1	Dharmanagar Area of Tripura Power System	22-04-2024 01:14	22-04-2024 01:37	00:23:00	0	5	0.00%	0.26%	1901	1932	Dharmanagar Substation of Tripura Power System was connected with rest of NER Grid via 132kV PK Bari – Dharmanagar and 132kV Dharmanagar –Dullavcherra lines. At 01:14 Hrs of 22-04-2024, 132kV PK Bari – Dharmanagar and 132kV Dharmanagar – Dullavcherra lines tripped. Due to tripping of these lines, Dharmanagar area of Tripura Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Dharmanagar area of Tripura Power System by charging 132 kV PK Bari – Dharmanagar at 01:37 Hrs of 22-04-2024.	132 kV PK Bari-Dharmanagar and 132 kV Dharmanagar-Dullavcherra lines
30	GD1	Leshka generating station of Meghalaya Power system	23-04-2024 20:56	23-04-2024 22:27	01:31:00	0	0	0.00%	0.00%	3097	2916	Leshka Generating Station of Meghalaya Power System was connected with rest of NER Grid through 132 kV Leshka-Khliehriat D/C lines. At 20:56 Hrs of 23-04-2024, 132 kV Leshka-Khliehriat D/C lines tripped. Due to tripping of these elements blackout of Leshka Generating Station of Meghalaya Power system occurred. Power restored to Leshka Generating Station of Meghalaya Power System by charging 132 kV Leshka-Khliehriat I line at 22:27 Hrs of 23-04-2024.	132 kV Leshka-Khliehriat D/C lines
31	GD1	Lumshnong area of Meghalaya Power system	23-04-2024 21:45	23-04-2024 22:02	00:17:00	0	21	0.00%	0.77%	2636	2743	Lumshnong area of Meghalaya Power System were connected with rest of NER Grid through 132 kV Khliehriat-Lumshnong and 132 kV Lumshnong-Panchgram lines. Prior to the event, 132 kV Khliehriat-Lumshnong line tripped at 21:23 Hrs of 23-04-2024. At 21:45 Hrs of 23-04-2024, 132 kV 132 kV Lumshnong-Panchgram line tripped. Due to tripping of this element, Lumshnong area of Meghalaya power system got isolated from the grid due to no source available in this area. Power supply was extended to Lumshnong of Meghalaya Power System by charging 132 kV Khliehriat-Lumshnong Line at 22:02 Hrs of 23-04-2024.	132 kV Khliehriat-Lumshnong and 132 kV Lumshnong-Panchgram lines
32	GD1	Tezu and Namsai areas of Arunachal Pradesh Power System	23-04-2024 18:50	23-04-2024 23:01	04:11:00	0	8	0.00%	0.26%	3086	3111	Tezu and Namsai areas of Arunachal Pradesh Power System were connected with rest of NER Grid via 132 kV Roing - Tezu Line. At 18:50 Hrs of 23-04-2024, 132 kV Roing - Tezu Line tripped. Due to tripping of this line, Tezu and Namsai areas of Arunachal Pradesh Power System were isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Tezu and Namsai areas of Arunachal Pradesh Power System by charging 132 kV Roing-Tezu Line at 23:01 Hrs of 23-04-2024.	132 kV Roing-Tezu line

Details of Grid Events during the Month of April 2024 in North Eastern Region



Sl No.	Category of Grid Event (GI For GI 2/ GD-1 to GD-5)	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
						Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
33	GD1	220 kV Tinsukia S/S in Assam Power System	24-04-2024 01:11	24-04-2024 04:28	03:17:00	0	0	0.00%	0.00%	1944	2124	220 kV Tinsukia S/S in Assam Power System was connected with rest of NER Grid via 220/132 kV ICT 1&2 at Tinsukia, 220kV NTPS - Tinsukia 1 Line, 220 kV Tinsukia-Behding D/C Lines, 220kV NRPP - Tinsukia & 220kV AGBPP - Tinsukia D/C Lines. At 01:11 Hrs of 24.04.2024, 220/132 kV ICT 1&2 at Tinsukia, 220/132 kV Bus-coupler, 220kV NTPS - Tinsukia 1 Line, 220 kV Tinsukia-Behding D/C Lines, 220kV NRPP - Tinsukia & 220kV AGBPP - Tinsukia D/C Lines tripped. Due to tripping of these elements, near Miss event occurred at 220 kV Tinsukia S/S in Assam power system, which could lead to major Grid Disturbance. Power supply was extended to 220 kV Tinsukia S/S by charging 220/132kV, 100 MVA ICT 1 at TINSUKIA at 04:28 Hrs of 24.04.2024.	220/132 kV ICT 1&2 at Tinsukia, 220/132 kV Bus-coupler, 220 kV NTPS - Tinsukia 1 Line, 220 kV Tinsukia-Behding D/C Lines, 220kV NRPP - Tinsukia & 220kV AGBPP - Tinsukia D/C Lines
34	GD1	Kohima and Chiephobozou area of Nagaland Power System	24-04-2024 18:59	24-04-2024 19:26	00:27:00	0	18	0.00%	0.77%	1719	2330	Kohima and Chiephobozou area of Nagaland Power System was connected with rest of NER Grid via 132 kV Dimapur(PG) - Kohima Line. Prior to the event, 132 kV Wakhra - Chiephobozou line and 132kV Kohima - Chiephobozou line tripped at 18:08 Hrs of 24.04.2024, 132kV Kohima-Meluri line was under shutdown since 10:05 Hrs of 27.09.2024, 132 kV Karong - Kohima Line tripped at 18:15 of 24.04.2024. At 18:59 Hrs of 24.04.2024, 132 kV Dimapur(PG) - Kohima Line tripped. Due to tripping of this line, Kohima and Chiephobozou area of Nagaland Power System were isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Kohima and Chiephobozou areas of Nagaland Power System by charging 132 kV Dimapur(PG) - Kohima Line at 19:26 Hrs of 24.04.2024.	132 kV Dimapur(PG) - Kohima Line
35	GD1	Thoubal new, Thoubal old, Kongba, Kakching, Elangkangpokpi, Chandel, Churachandpur, Thanlon and Moreh areas of Manipur Power System of NER and Tamu load of Myanmar	24-04-2024 15:04	24-04-2024 15:29	00:25:00	0	65	0.00%	2.78%	1742	2337	Thoubal new, Thoubal old, Kongba, Kakching, Elangkangpokpi, Chandel, Churachandpur, Thanlon and Moreh areas of Manipur Power System of NER and Tamu load of Myanmar were connected with rest of NER Grid via 400 kV Imphal (PG) - Thoubal (MSPC) 2 Line and 132 kV Yangangpokpi - Kongba Line. 400 kV Imphal (PG) - Thoubal (MSPC) 2 Line was under outage since 13:32 Hrs of 18.12.2021, 132kV-Ningthoukhong-Churachandpur-1 line was under outage since 15:21 Hrs of 26.03.2024, 132kV-Ningthoukhong-Churachandpur-2 line was under outage since 09:25 Hrs of 17.04.2024 and 132 kV Yangangpokpi - Kongba 2 Line was idle charged from Yangangpokpi end. At 15:05 Hrs of 24.04.2024, 400 kV Imphal (PG) - Thoubal (MSPC) 2 Line and 132 kV Yangangpokpi - Kongba Line tripped. Due to tripping of these lines, Thoubal new, Thoubal old, Kongba, Kakching, Elangkangpokpi, Chandel, Churachandpur, Thanlon and Moreh areas of Manipur Power System of NER and Tamu load of Myanmar were isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Thoubal new, Thoubal old, Kongba, Kakching, Elangkangpokpi, Chandel, Churachandpur, Thanlon and Moreh areas of Manipur Power System of NER and Tamu load of Myanmar by charging 132 kV Yangangpokpi - Kongba 1 Line at 15:29 Hrs of 24.04.2024.	400 kV Imphal (PG) - Thoubal (MSPC) 2 Line and 132 kV Yangangpokpi - Kongba Line
36	GD1	Rengang area of Manipur Power System	24-04-2024 14:45	24-04-2024 15:33	00:48:00	0	1	0.00%	0.04%	1720	2326	Rengang area of Manipur Power System was connected with rest of NER Grid via 132 kV Loktak - Rengang Line. 132kV-lirbam-Rengang Line was under outage since 18:18 Hrs of 17.11.2023. At 14:45 Hrs of 24.04.2024, 132 kV Loktak - Rengang Line tripped. Due to tripping of this line, Rengang area of Manipur Power System was isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Rengang area of Manipur Power System by charging 132 kV Loktak - Rengang Line at 15:33 Hrs of 24.04.2024.	132 kV Loktak - Rengang Line
37	GD1	Thoubal new, Thoubal old, Kongba, Kakching, Elangkangpokpi, Chandel, Churachandpur, Thanlon and Moreh areas of Manipur Power System of NER and Tamu load of Myanmar	24-04-2024 17:18	24-04-2024 19:59	02:41:00	0	40	0.00%	1.62%	2116	2465	Thoubal new, Thoubal old, Kongba, Kakching, Elangkangpokpi, Chandel, Churachandpur, Thanlon and Moreh areas of Manipur Power System of NER and Tamu load of Myanmar were connected with rest of NER Grid via 132 kV Yangangpokpi - Kongba 2 Line, 400 kV Imphal (PG) - Thoubal (MSPC) 1 Line tripped at 15:05 Hrs of 24.04.2024 due to multiple tower collapse because of high wind at Loc 38A, 38/B, 39/0, 39/1, 39/2, 400 kV Imphal (PG) - Thoubal (MSPC) 2 Line was under outage since 13:32 Hrs of 18.12.2021, 132kV-Ningthoukhong Churachandpur-1 line was under outage since 15:21 Hrs of 26.03.2024, 132kV-Ningthoukhong Churachandpur-2 line was under outage since 09:25 Hrs of 17.04.2024 and 132 kV Yangangpokpi - Kongba 1 Line tripped at 16:35 Hrs of 24.04.2024 due to jumper snapping, 132 kV Thoubal new - Kakching was hand tripped at 16:24 Hrs of 24.04.2024. At 17:18 Hrs of 24.04.2024, 132 kV Yangangpokpi - Kongba 2 Line tripped. Due to tripping of this line, Thoubal new, Thoubal old, Kongba, Kakching, Elangkangpokpi, Chandel, Churachandpur, Thanlon and Moreh areas of Manipur Power System of NER and Tamu load of Myanmar were isolated from NER Grid and collapsed due to no source available in these areas. Power supply was extended to Thoubal new, Thoubal old, Kongba, Kakching, Elangkangpokpi, Chandel, Churachandpur, Thanlon and Moreh areas of Manipur Power System of NER and Tamu load of Myanmar by charging 132 kV Yangangpokpi - Kongba 1 Line at 19:59 Hrs of 24.04.2024.	132 kV Yangangpokpi - Kongba 2 Line
38	GD1	Karong area of Manipur Power System	25-04-2024 11:38	25-04-2024 12:53	01:15:00	0	10	0.00%	0.44%	1515	2279	Karong area of Manipur Power System was connected with rest of NER Grid via 132 kV Imphal (MSPC) - Karong Line, 132 kV Karong - Kohima Line was under tripped condition since 18:15 Hrs of 24.04.2024. At 11:38 Hrs of 25-04-2024, 132 kV Imphal (MSPC) - Karong Line tripped. Due to tripping of this line, Karong area of Manipur Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Karong area of Manipur Power System by charging 132 kV Imphal (MSPC) - Karong Line at 12:53 Hrs of 25.04.2024.	132 kV Imphal (MSPC) - Karong Line
39	GD1	Ziro and Daporijo area of Arunachal Pradesh Power System	25-04-2024 06:11	25-04-2024 07:01	00:50:00	0	7	0.00%	0.35%	1935	2011	Ziro and Daporijo area of Arunachal Pradesh Power System were connected with rest of NER Grid via 132 kV Panyor-Ziro-Daporijo-Basar-Along-Pasighat-Roring-rest of the grid. 132kV Ziro-Daporijo was under planned shutdown from 06:09hrs of 25.04.2024. At 06:11 hrs 132kV Panyor-Ziro and 132kV Daporijo-Basar tripped resulting in blackout at Ziro and Daporijo substation. Power was extended to Ziro and Daporijo area of Arunachal Pradesh by charging 132 kV Panyor-Ziro line at 07:01 Hrs of 25-04-2024.	132kV Panyor-Ziro and 132kV Daporijo-Basar Lines
40	GD1	Golaghat area of Assam Power System	28-04-2024 12:44	28-04-2024 12:55	00:11:00	0	0.5	0.00%	0.02%	1565	2010	Golaghat area of Assam Power System was connected with rest of NER Grid via 132 kV Golaghat - Sarupathar line and 132 kV Golaghat-Mariani(A) lines. At 12:44 Hrs of 28-04-2024, 132 kV Golaghat - Sarupathar line and 132 kV Golaghat Mariani(A) tripped. Due to tripping of this line, Golaghat area of Assam Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Golaghat area of Assam Power System by charging 132 kV Golaghat-Mariani(A) Line at 12:55 Hrs of 28.04.2024.	132 kV Golaghat - Sarupathar and 132 kV Golaghat Mariani(A) Lines
41	GD1	Gossaigaon area of Assam Power System	28-04-2024 14:59	28-04-2024 15:05	00:06:00	0	11	0.00%	0.52%	1600	2097	Gossaigaon area of Assam Power System was connected with rest of NER Grid via 132 kV Gossaigaon - Dhaligaon line. Gauripur-Gossaigaon line was kept open to avoid overloading of 132 kV Kokrajhar-Blasipara line. At 14:59 Hrs of 28-04-2024, 132 kV Gossaigaon - Dhaligaon tripped. Due to tripping of this line, Gossaigaon area of Assam Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Gossaigaon area of Assam Power System by charging 132 kV Gauripur Gossaigaon w.e.f. 15:05 Hrs of 28.04.2024.	132 kV Gossaigaon - Dhaligaon line

Details of Grid Events during the Month of April 2024 in North Eastern Region



Sl No.	Category of Grid Event	Affected Area	Time and Date of occurrence of Grid Event	Time and Date of Restoration	Duration (HH:MM)	Loss of generation / loss of load during the Grid Event		% Loss of generation / loss of load w.r.t Antecedent Generation/Load in the Regional Grid during the Grid Event		Antecedent Generation/Load in the Regional Grid*		Brief details of the event (pre fault and post fault system conditions)	Elements Tripped
	(GI Ior GI 2/ GD-1 to GD-5)					Generation Loss(MW)	Load Loss (MW)	% Generation Loss (MW)	% Load Loss (MW)	Antecedent Generation (MW)	Antecedent Load (MW)		
42	GD1	Leshka HEP of Meghalaya Power System	28-04-2024 22:23	28-04-2024 22:43	00:20:00	42	0	1.99%	0.00%	2108	2041	Leshka HEP of Meghalaya Power System was connected with rest of NER Grid via 132 kV Myntdu Leshka - Khleihriat D/C lines. At 22:23 Hrs of 28-04-2024, 132 kV Myntdu Leshka - Khleihriat D/C lines tripped. Due to tripping of these lines, Leshka HEP of Meghalaya Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power supply was extended to Leshka HEP of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khleihriat 2 line at 22:43 hrs of 28.04.2024.	132 kV Myntdu Leshka - Khleihriat D/C lines
43	GD1	Serchhip area of Mizoram Power System	28-04-2024 18:30	28-04-2024 19:08	00:38:00	0	6	0.00%	0.25%	2839	2401	Serchhip area of Mizoram Power System was connected with rest of NER Grid via 132 kV Zuangtui-Serchhip line. 132 kV Serchhip - Luangtui line was kept open due to system requirements. At 18:30 Hrs of 28-04-2024, 132 kV Zuangtui-Serchhip tripped. Due to tripping of this line, Serchhip area of Mizoram Power System was isolated from NER Grid and collapsed due to no source available in this area. Power supply was extended to Serchhip area of Mizoram Power System by charging 132 kV Zuangtui-Serchhip w.e.f. 19:08 hrs of 28.04.2024.	132 kV Zuangtui-Serchhip line
44	GD1	Leshka HEP of Meghalaya Power System	29-04-2024 20:28	29-04-2024 20:51	00:23:00	42	0	1.39%	0.00%	3017	2415	Leshka HEP of Meghalaya Power System was connected with rest of NER Grid via 132 kV Myntdu Leshka - Khleihriat D/C lines. At 20:28 Hrs of 29-04-2024, 132 kV Myntdu Leshka - Khleihriat D/C lines tripped. Due to tripping of these lines, Leshka HEP of Meghalaya Power System was isolated from NER Grid and collapsed due to loss of evacuation path. Power supply was extended to Leshka HEP of Meghalaya Power System by charging 132 kV Myntdu Leshka - Khleihriat 1 line at 20:51 hrs of 29.04.2024.	132 kV Myntdu Leshka - Khleihriat D/C lines