Northern Region-Event Report for January 2019

	Region Name of Elements Affected Area Owner/ Agency Outage	tage	Re	vival		Event	Generation	Load	Catanania				
S.No.	Region	(Tripped/Manually opened)	Affected Area	Owner/ Agency	Date	Time	Date	Time	Duration	Event (As reported)	Loss(MW)	Loss(MW)	Category as per CEA Grid Standards
1	NR	1) 400kV Bawana(DTL)-Mundka(DTL) ckt-1 2) 400kV Bawana(DTL)-Mundka(DTL) ckt-2 3) 400kV Jhatikara(PG)-Mundka(DTL) ckt-1 4) 400kV Jhatikara(PG)-Mundka(DTL) ckt-2 5) 315 MVA ICT 2 at 400/220kV Mundka(DTL)	Delhi	Delhi & POWERGRID	1-Jan-19	10:17	1-Jan-19	11:23	01:06	Mutiple element Tripping occurred at 400/220kV Mundka(DTL) due to Bus bar protection operated during availing shutdown of 400kV Jhatikara(PG)-Mundka(DTL) ckt-2. 315 MVA ICT 3 & ICT 4 remain charged through tie CB of 400kV Mundka-Jhajjar Ckt-2 & 400kV Mundka-Jhajjar Ckt-1 respectively.As per PMU, No fault is observed in the system. In antecedent conditions, 400kV Bawana(DTL)-Mundka(DTL) ckt-1 & 2, 400kV Jhatikara(PG)-Mundka(DTL) ckt-1 carrying 254 MW, 253 MW & 333 MW respectively.			GI-2
2	NR	1) 400kV Anpara(UP)-Sarnath(UP) ckt-1 2) 400kV Anpara(UP)-Sarnath(UP) ckt-2 3) 400kV Anpara(UP)-Singrauli(NTPC) 4) 400kV Anpara(UP)-Singrauli(NTPC) 5) 400kV Anpara(UP)-Mau(UP) 6) 400kV Anpara(UP)-Mau(UP) 6) 400kV Anpara(UP)-Anpara C(UP) D/C 7) 400kV Anpara(UP)-Anpara D(UP) D/C 8) 210 MW Unit#1, Unit#2 & Unit#3 at 400kV Anpara A&B(UP) 9) 500 MW Unit#4, Unit#5 at 400kV Anpara A&B(UP)	Uttar Pradesh	UP & NTPC	2-Jan-19	8:32	2-Jan-19	09:46	01:14	Heavy BTL was observed in Unit#4 at 400kV Anpara A&B(UP). Turbine trip command was initiated but due to non tripping of unit Breaker and LBB operation, all 400kV lines emanating from 400kV Anpara A&B(UP) and all running units at 400kV Anpara A&B(UP) tripped. As per PMU, R-N fault with delayed clearance is observed. In antecedent conditions, all units at 400kV Anpara A&B(UP) generating 1117 MW (as per SCADA).	1100	50	GD-1
3	NR	1) 400kV Muktsar(PSTCL) -Talwandi Sabo(PSTCL) ckt-2 2) 400kV Makhu(PSTCL) -Muktsar(PSTCL) ckt-1	Punjab	Punjab	3-Jan-19	5:47	3-Jan-19	18:08	12:21	400kV Muktsar(PSTCL) -Talwandi Sabo(PSTCL) ckt-2 tripped due to B-N fault, 8.01Km from Talwandi sabo(PSTCL) end. At the same time, 400kV Makhu(PSTCL) -Muktsar(PSTCL) ckt-1 tripped due to B-N fault 63.80Km from Makhu(PSTCL) end. As per PMU, B-N fault with unsuccessful autoreclosing is observed. In antecedent conditions, 400kV Muktsar(PSTCL) -Talwandi Sabo(PSTCL) ckt-2 and 400kV Makhu(PSTCL) -Muktsar(PSTCL) ckt-1 carrying 166 MW & 101 MW respectively.			GI-2
4	NR	1) 400kV Moga(PG)-Talwandi Sabo(PSTCL) 2) 600 MW Unit#3 at 400kV Talwandi Sabo(PSTCL)	Punjab	Punjab & POWERGRID	3-Jan-19	6:15	3-Jan-19	13:30	07:15	400kV Moga(PG) -Talwandi Sabo(PSTCL) tripped due to fog. At the same time, 600 MW Unit#3 at 400kV Talwandi Sabo(PSTCL) also tripped. 400kV Muktsar(PSTCL) -Talwandi Sabo(PSTCL) ckt-1 & 2, 400kV Nakodar(PSTCL)-Talwandi Sabo(PSTCL) ckt-1 aiready out at the time of tripping. As per PMU, B-N fault is observed. In antecedent conditions, Unit#3 generating 310 MW.	310		GD-1
5	NR	1) 400kV Aligarh(UP)-Mainpuri 765(UP) ckt-1 2) 400kV Aligarh(UP)-Muradnagar(UP)	Uttar Pradesh	UP	5-Jan-19	3:43	5-Jan-19	05:16	01:33	400kV Aligarh(UP)-Mainpuri 765(UP) ckt-1 and 400kV Aligarh(UP)-Muradnagar(UP) tripped due to inclement weather and fog. As per PMU, B-N fault followed by R-B fault is observed. In antecedent conditions, 400kV Aligarh(UP)-Mainpuri 765(UP) ckt-1 and 400kV Aligarh(UP)-Muradnagar(UP) carrying 159 MW & 125 MW respectively.			GI-2
6	NR	1) 400kV Gorakhpur(PG)-Muzaffarpur(PG) ckt-1 2) 400kV Gorakhpur(PG)-Muzaffarpur(PG) ckt-2	Uttar Pradesh	POWERGRID	5-Jan-19	6:56	5-Jan-19	10:28	03:32	400kV Gorakhpur(PG)-Muzaffarpur(PG) ckt-1 & 2 tripped tripped due to inclement weather and fog. As per PMU, Multiple faults with oscillations are observed in the system. In antecedent conditions, 400kV Gorakhpur(PG)-Muzaffarpur(PG) ckt-1 & 2 carrying 37 MW & 38 MW respectively.			GI-2
7	NR	1) 400kV Akal(RRVPNL)-Barmer(RRVPNL) 2) 400kV Akal(RRVPNL)-Kankani(RRVPNL) ckt-1	Rajasthan	Rajasthan	6-Jan-19	7:47	6-Jan-19	15:10	07:23	400kV Akal(RRVPNL)-Barmer(RRVPNL) tripped on B-N fault. At the same time, 400kV Akal(RRVPNL)-Kankan(IRRVPNL) ckt-1 also tripped on three phase fault. As per PMU, Y-N fault with unsuccessful autoreclosing is observed. In antecedent conditions, 400kV Akal(RRVPNL)-Barmer(RRVPNL) & 400kV Akal(RRVPNL)-Kankani(RRVPNL) ckt-1 carrying 94 MW & 125 MW respectively.			GI-2
8	NR	1) 400kV Banda(UP)-Orai(UP) ckt-1 2) 400kV Bus 2 at Orai(UP) 3) 63 MVAR Bus Reactor 1 at 400kV Orai(UP)	Uttar Pradesh	UP	9-Jan-19	12:07	9-Jan-19	19:01	06:54	400kV Banda(UP)-Orai(UP) ckt-1 tripped on R-N fault. At the same time, 400kV Bus 2 and 63 MVAR Bus Reactor 1 at 400kV Orai(UP) also tripped due to malfunction of Isolator & earthswitch due to insulation damage of wire. As per PMU, 8-N fault with no auto-reclosing is observed. In antecedent conditions, 400kV Banda(UP)-Orai(UP) ckt-1 carrying 30 MW.			GI-2
9	NR	1) 220kV AD Hydro(ADHY)-Phojal(HP) 2) 220kV Chhaur(MALN2)-Phojal(HP)	Himachal Pradesh	HP & AD Hydro	10-Jan-19	10:14	10-Jan-19	15:13	04:59	220kV AD Hydro(ADHY)-Phojal(HP) tripped on B-N fault, 50.5 km from AD Hydro(ADHY) end. At the same time, Chhaur(MALN2)-Phojal(HP) also tripped on B-N fault, 9.0 km from Chhaur(MALN2) towards phozal end. As per PMU, No fault is observed in the system.			GI-2
10	NR	1) 200 MVA ICT 1 at 400/132kV Mau(UP) 2) 200 MVA ICT 2 at 400/132kV Mau(UP)	Uttar Pradesh	UP	11-Jan-19	11:15	11-Jan-19	11:52	00:37	200 MVA ICT 1 & ICT 2 at 400/132kV Mau(UP) tripped due to overloading. 200 MVA ICT 3 was already under outage to attend hot point at R phase CT clamp. As per PMU, Fluctuations observed in the phase voltages. Also rise in frequency of around 0.038Hz is observed.		240	GD-1

		Name of Elements		_	Out	tage	Re	evival		Event	Generation	Load	Category as per
S.No.	Region	(Tripped/Manually opened)	Affected Area	Owner/ Agency	Date	Time	Date	Time	Duration	(As reported)	Loss(MW)	Loss(MW)	CEA Grid Standards
11	NR	1) 400kV Akal(RRVPNL)-Barmer(RRVPNL) 2) 400kV Akal(RRVPNL)-Kankani(RRVPNL) ckt-1	Rajasthan	Rajasthan	12-Jan-19	10:10	12-Jan-19	11:55	01:45	400kV Akal(RRVPNL)-Barmer(RRVPNL) tripped on Y-N fault, 17km from Akal(RRVPNL) end. At the same time, 400kV Akal(RRVPNL)-Kankani(RRVPNL) ckt-1 also tripped. As per PMU, multiple Y-N fault with no autoreclosing attempt is observed. In antecedent conditions, 400kV Akal(RRVPNL)-Barmer(RRVPNL) & 400kV Akal(RRVPNL)-Kankani(RRVPNL) ckt-1 carrying 122 MW & 44 MW respectively.			GI-2
12	NR	1) 500 kV HVDC Balia(PG)-Bhiwadi(PG) pole 1 2) 500 kV HVDC Balia(PG)-Bhiwadi(PG) pole 2	Haryana and Uttar Pradesh	POWERGRID	13-Jan-19	5:51	13-Jan-19	06:58	01:07	500 kV HVDC Balia(PG)-Bhiwadi(PG) bipole tripped due to DC Earth Fault, 359.56 km from Bhiwadi(PG) end and operation of station ground over current 756G-2 block at Bhiwadi(PG) end. As per PMU, fluctutations observed in the phase voltages. In antecedent conditions, 500 kV HVDC Balia(PG)-Bhiwadi(PG) bipole carrying 500MW.			GI-2
13	NR	1) 220kV Sikar(PG)-Sikar(RRVPNL) ckt-1 2) 220kV Sikar(PG)-Sikar(RRVPNL) ckt-2	Rajasthan	POWERGRID & Rajasthan	14-Jan-19	13:40	14-Jan-19	18:43	05:03	220kV Sikar(PG)-Sikar(RRVPNL) ckt-1 & 2 tripped due to kite entanglement in lines. As per PMU, R-Y fault is observed in the system. In antecedent conditions, 220kV Sikar(PG)-Sikar(RRVPNL) ckt-1 & 2 carrying 121 MW each.			GI-2
14	NR	1) 220kV Vasantkunj(DTL)-Mehrauli(DTL) ckt-1 2) 220kV Vasantkunj(DTL)-R k Puram(DTL) ckt-2 3) 220kV Vasantkunj(DTL)-R k Puram(DTL) ckt-1 4) 220/66kV 100MVA ICT 1 at 220kV Vasantkunj(DTL) 5) 220/66kV 100MVA ICT 2 at 220kV Vasantkunj(DTL)	Delhi	Delhi	15-Jan-19	11:01	15-Jan-19	11:08	00:07	220kV Bus 2 at 220kV Vasantkunj(DTL) tripped due to operation of Bus bar protection leading to tripping of all 220kV elements connected to the Bus 2. 220kV Bus 1 and 220kV Bus coupler at 220kV Vasantkunj(DTL) was under shutdown for preventive maintenance. As per PMU, No fault is observed in the system. In antecedent conditions, 220kV Vasantkunj(DTL)-Mehrauli(DTL) ckt-1 & 2 carrying 67 MW & 70 MW respectively.		110	GD-1
15	NR	1) 800 kV HVDC Champa(WR)-Kurukshetra(NR) pole- 1 2) 800 kV HVDC Champa(WR)-Kurukshetra(NR) pole- 2	Haryana	POWERGRID	15-Jan-19	12:56	15-Jan-19	13:41	00:45	800 kV HVDC Champa(WR)-Kurukshetra(NR) bipole tripped due to filter power limit. As per PMU, fluctuations observed in the phase voltages. In antecedent conditions, 800 kV HVDC Champa(WR)-Kurukshetra(NR) pole-1 and pole-2 carrying approx 500 MW each.			GI-2
16	NR	1) 400kV Bhadla(RRVPNL)-Bikaner(RRVPNL) ckt-1 2) 400kV Bhadla(RRVPNL)-Bikaner(RRVPNL) ckt-2 3) 400kV Bhadla(RRVPNL)-Jodhpur(RRVPNL) 4) 400kV Bhadla(RRVPNL)-Merta(RRVPNL)	Rajasthan	Rajasthan	16-Jan-19	12:25	16-Jan-19	13:26	01:01	400kV Bhadla(RRVPNL)-Bikaner(RRVPNL) ckt-1 tripped on R-N fault ,189.1Km from Bikaner end, 400kV Bhadla(RRVPNL)-Bikaner(RRVPNL) ckt-2 tripped due to DT received at Bikaner end, 400kV Bhadla(RRVPNL)-Iodhpur(RRVPNL) trip due to Y-B fault, 254.4Km from Jodhpur end and 400kV Bhadla(RRVPNL)-Bikar(RRVPNL) trip due to Y-B fault, 333.17 km from Merta end. As per Jamet Hallet with delayed trip due to Y-B of Served. In antecedent conditions, 400kV Bhadla(RRVPNL)-Bikaner(RRVPNL) (kt-1 & 2, 400kV Bhadla(RRVPNL)-Merta(RRVPNL) carrying 301 MW, 303 MW & 188 MW respectively.	1400		GD-1
17	NR	1) 400kV Ballabgarh(PG)-Mainpuri(PG) ckt-2 2) 400kV Fatehpur(PG)-Mainpuri(PG) ckt-1	Uttar Pradesh	POWERGRID	20-Jan-19	10:25	21-Jan-19	10:52	00:27	400kV Ballabgarh(PG)-Mainpuri(PG) ckt-2 tripped on R-N fault. At the same time, 400kV Fatehpur(PG)-Mainpuri(PG) ckt-1 also tripped. As per PMU, R-N fault with unsuccessful auto-reclosing is observed. In antecedent conditions, 400kV Fatehpur(PG)-Mainpuri(PG) ckt-1 & 400kV Ballabgarh(PG)-Mainpuri(PG) ckt-2 carrying 420 MW & 182 MW respectively.			GI-2
18	NR	1) 400kV Koteshwar Pool(PG)-Tehri(THDC) ckt-1 2) 400kV Koteshwar Pool(PG)-Tehri(THDC) ckt-2 3) 400kV Koteshwar Pool(PG)-Koteshwar(THDC) ckt-1 4) 400kV Koteshwar Pool(PG)-Koteshwar(THDC) ckt-1 5) 400kV Koteshwar Pool(PG)-Meerut(PG) ckt-1 6) 250 MW Unit#1, #2 & #3 of 400kV Tehri(THDC) 7) 100 MW Unit#1 of 400kV Koteshwar(THDC)		POWERGRID & THDC	21-Jan-19	15:57	21-Jan-19	16:19	00:22	400kV Koteshwar Pool(PG)-Meerut(PG) ckt-1 (Ckt-2 was already under shutdown), 400kV Koteshwar Pool(PG)-Tehri(THDC) ckt-1 & 2, 400kV Koteshwar Pool(PG)-Koteshwar(THDC) ckt-1 & 2 tripped on overvoltage. Due to loss of evacuation path, 250 MW Unlit#1, #2 & #3 of 400kV Tehri(THDC) & 100 MW Unlit#1 of 400kV Koteshwar(THDC) tripped. However, as per SCADA data Bus voltage at Meerut was around 426kV (c440kV). As per PMU, fluctutation observed in the phase voltages. In antecedent conditions, 400kV Koteshwar Pool(PG)-Meerut(PG) ckt-1 carrying 768 MW. Units at 400kV Tehri and 400kV Koteshwar synchronised by 1646 Hrs and 1700 Hrs respectively.	780		GD-1
19	NR	1) 400kV Kishenpur(PG)-New Wanpoh(PG) ckt-3 2) 220kV Kishenpur(PG)-Udampur(JK) ckt-2	Jammu & Kashmir	POWERGRID & PDDJK	22-Jan-19	1:04	22-Jan-19	02:08	01:04	400kV Kishenpur(PG)-New Wanpoh(PG) ckt-3 tripped on R-N fault. At the same time, 220kV Kishenpur(PG)-Udampur(JK) ckt-2 also tripped on R-Y fault. As per PMU, Multiple R-N faults observed in the system. In antecedent conditions, 400kV Kishenpur(PG)-New Wanpoh(PG) ckt-3 & 220kV Kishenpur(PG)-Udampur(JK) ckt-2 carrying 155 MW & 10 MW respectively.			GI-2
20	NR	1) 220kV Shahjahanpur(UP)-Bareilly(UP) 2) 220kV Shahjahanpur(UP)-Sitapur(UP) 3) 220kV Shahjahanpur(UP)-Nighasan(UP) 4) 220kV Shahjahanpur(UP)-Hardoi(UP) 5) 220kV Rosa(UP)-Shahjahanpur(UP) ckt-1 6) 220kV Rosa(UP)-Shahjahanpur(UP) ckt-2 7) 200 MVA ICT 1 at 400/220kV Rosa(UP) 8) 200 MVA ICT 2 at 400/220kV Rosa(UP) 9) 300 MW Unit#2 at 400/220kV Rosa(UP)	Uttar Pradesh	UP	22-Jan-19	1:29	22-Jan-19	02:17	00:48	Y-N fault occurred in 220kV Shahjahanpur(UP)-Bareilly(UP) but breaker at 220kV Shahjahanpur(UP), did not trip. In the absence of LBB protection system at 220kV Shahjahanpur(UP), the fault was sensed by the relays at other end of the lines. 200 MVA ICT 1 & 2 at 400/220kV Rosa(UP) tripped on differential protection and Unit#2 a Rosa TPS also tripped as it sensed earth fault occurred in 220kV Shahjahanpur(UP)-Bareilly(UP)-As per PMU, Y-N fault followed by Y-B fault with delayed clearance is observed. In antecedent conditions, 200 MVA ICT 1 & 2 at 400/220kV Rosa(UP) carrying 14 MW & 16 MW respectively.	150		GD-1

		Name of Elements			Ou	tage	Re	evival		Event	Generation	Load	Category as per
S.No.	Region	(Tripped/Manually opened)	Affected Area	Owner/ Agency	Date	Time	Date	Time	Duration	(As reported)	Loss(MW)	Loss(MW)	CEA Grid Standards
21	NR	1) 400kV Kala Amb(PKATL)-Karchamwangtoo(JSW) ckt-1 2) 400kV Kala Amb(PKATL)-Karchamwangtoo(JSW) ckt-2	Himachal Pradesh	PKATL & JSW	23-Jan-19	1:24	23-Jan-19	02:18	00:54	400kV Kala Amb(PKATL)-Karchamwangtoo(JSW) ckt-1 & 2 tripped on phase to earth fault. As per PMU, Y-B fault followed by three phase fault with delayed clearance is observed.In antecedent conditions, 400kV Kala Amb(PKATL)-Karchamwangtoo(JSW) ckt-1 & 2 carrying 57 MW & 59 MW respectively.			GI-2
22	NR	1) 400kV Jhakri(SJVNL)-Karchamwangtoo(JSW) ckt-1 2) 400kV Jhakri(SJVNL)-Rampur(SJVNL) ckt-1 3) 400kV Jhakri(SJVNL)-Panchkula(PG) ckt-1 4) 250 MW Unit#1,3,5 at 400kV Jhakri(SJVNL). 5) 68 MW Unit2,3,4, at 400kV Rampur(SJVNL)	Himachal Pradesh	SJVNL, JSW & POWERGRID	23-Jan-19	6:37	23-Jan-19	07:40	01:03	400kV Jhakri(SJVNL)-Karchamwangtoo(JSW) ckt-1 tripped on Y-B fault. As soon as line tripped, High Impedence based Bus Bar differential relay of Bus-1 operated which tripped all elements associated with Bus-1 (Unit #1,3.5, 400kV Jhakri(SJVNL)-Panchkula(PG) ckt-1 & 400kV Jhakri(SJVNL)-Rampur(SJVNL) ckt-1). As per PMU, Y-B fault is observed. In antecedent conditions, 400kV Jhakri(SJVNL)-Panchkula(PG) ckt-1 & 400kV Jhakri(SJVNL)-Rampur(SJVNL) ckt-1 carrying 607 MW & 416 MW respectively.	925		GD-1
23	NR	1) 400 kV Bus 2 at 400/220kV Roorkee(PG) 2) 400kV Roorkee(PG)-Saharanpur(PG) 3) 400kV Kashipur(UTT)-Roorkee (PG) ckt-1	Uttarakhand	POWERGRID & Uttarakhand	23-Jan-19	16:04	23-Jan-19	16:34	00:30	400 kV Bus 2 at 400/220kV Roorkee(PG) tripped due to operation of Bus bar protection during busbar testing of Bus-I. 400kV Roorkee(PG)-Saharanpur(PG) & 400kV Kashipur(UTT)-Roorkee (PG) ckt-1 also tripped. As per PMU, No fault is observed in the system. In antecedent conditions, 400kV Roorkee(PG)-Saharanpur(PG) & 400kV Kashipur(UTT)-Roorkee (PG) ckt-1 carrying 111 MW & 183 MW respectively.			GI-2
24	NR	1) 400kV Baspa(HP)-Karchamwangtoo(JSW) ckt-1 2) 400kV Baspa(HP)-Karchamwangtoo(JSW) ckt-2 3) 400kV Jhakri(SJVNL)-Karchamwangtoo(JSW) ckt-1	Himachal Pradesh	JSW, HP and SJVNL	23-Jan-19	23:07	23-Jan-19	23:12	00:05	During charging of 400kV Karcham(JSW)-Kala Amb(PKATL) ckt-2 a spike in voltage occurs leading to bus fault at 400kV Karchamwangtoo(JSW) and tripping of 400kV Baspa(HP)-Karchamwangtoo(JSW) ckt-1 & 2. As per PMU, No fault is observed in the system. In antecedent conditions, 400kV Baspa(HP)-Karchamwangtoo(JSW) ckt-1 & 2 carrying 15 MW each.	30		GD-1
25	NR	1) 765kV Orai-Jabalpur ckt-2 2) 765kV Bus-1 of Orai (PG) 3) 765kV Orai-Jabalpur ckt-1 (It charged through tie CB and bus reactor at Orai (PG))	Uttar Pradesh	POWERGRID	24-Jan-19	1:27	24-Jan-19	06:02	04:35	765 KV Orai-Jabalpur line-2 tripped on persistent R-N fault. After some time (700ms), 765 KV Bus-1 of Orai (PG) tripped on R-phase Bus differential protection operation. It resulted into tripping of all main CB connected to that bus. 765 KV Orai- Jabalpur line-1 remain charged from Jabalpur end and hanged at Orai end with Tie CB ON and Bus Reactor-2 connected. After establishing problem in CB compartment, 716 bay (756 kV Main bay of Orai-Jabalpur ckt-2) is taken out and both side disconnector switch is opened. After removing faulty Main bay section 716 bay, 765 KV Main Bus-1 is charged at 14:17 hrs.			GI-2
26	NR	1) 400kV Uri-1-Uri-2 ckt 2) Main Bus Coupler at 400 kV Uri-1 HEP 3) 120 MW Unit-1,2,3&4 at Uri-1 HEP 4) 60 MW Unit-4 at Uri-2 HEP	J&K	NHPC	24-Jan-19	8:49	24-Jan-19	09:54	01:05	All four units of Uri-1 HEP was running with 410MW generation with arrangement of all running unit with Uri-2 ckt was on one bus and Amargarh ckt-1 & 2 was on other bus. As most of the current flowing through bus coupler leads to operation of backup over current protection of bus Coupler at 400 kV Uri-1 HEP. Further Uri-1 Uri-2 ckt also tripped on over current protection of bus Coupler at 400 kV Uri-1 HEP. Further Uri-1 Uri-2 ckt also tripped on over current protection and units tripped on over frequency due to loss of evacuation path.	470		GD-1
27	NR	1) 400kV Meerut-Koteshwar Pool ckt-1 2) Koteshwar Pool-Tehri ckt-1 3) Koteshwar Pool-Tehri ckt-2 4) Koteshwar Pool-oteshwar THDC ckt-1 5) Koteshwar Pool-oteshwar THDC ckt-2 6) 250 MW Unit-1,2,3&4 at Tehri HEP 7) 100 MW one unit at Koteshwar HEP	Uttarakhand	POWERGRID	24-Jan-19	17:14	24-Jan-19	17:42	00:28	In Antecedent condition, 400 kV Meerut-Koteswhar Pool Ckt-2 was under planned shutdown due to insulator replacement work till 16:00hrs. Shutdown was extended by POWERGRID. 400 kV Meerut-Koteswhar Pool Ckt-1 (only ckt avaialible for entire complex) tripped due to Y-N line fault. It further resulted into outage of 1000MW (895 MW at Tehri & 90MW at Koteshwar HEP) generation in the complex.	1000		GD-1
28	NR	1) 220kV Salal(NHPC)-Kishenpur(PG) ckt-1 2) 220kV Salal(NHPC)-Kishenpur(PG) ckt-2	Jammu & Kashmir	POWERGRID & NHPC	25-Jan-19	15:08	25-Jan-19	15:38	00:30	220kV Salal(NHPC)-Kishenpur(PG) ckt-1 & 2 tripped on B-N fault. As per PMU, B-N fault with delayed clearance and no auto-reclosing attempt is observed. In antecedent conditions, 220kV Salal(NHPC)-Kishenpur(PG) ckt-1 & 2 carrying 20 MW & 18 MW respectively.			GI-2
29	NR	1) 400kV Azamgarh(UP)-Sultanpur(UP) 2) 400kV Lucknow(PG)-Sultanpur(UP) 3) 315 MVA ICT 1 at 400/220kV Sultanpur(UP) 4) 240 MVA ICT 2 at 400/220kV Sultanpur(UP)	Uttar Pradesh	UP & POWERGRID	28-Jan-19	9:50	28-Jan-19	11:22	01:32	400kV Azamgarh(UP)-Sultanpur(UP) & 400kV Lucknow(PG)-Sultanpur(UP) tripped during BUS changeover. At the same time, 315 MVA ICT 1 & 240 MVA ICT 2 at 400/220kV Sultanpur(UP) also tripped. As per PMU, R-N fault is observed in the system. In antecedent conditions, 400kV Azamgarh(UP)-Sultanpur(UP) & 400kV Lucknow(PG)-Sultanpur(UP) carrying 10 MW & 234 MW respectively.			GI-2
30	NR	1) 220kV Amargarh(NRSS29)-Delina(JK) 2) 220kV Delina(JK)-Zainkote(JK) 3) 220kV Amargarh(NRSS29)-Zainkote(JK)	Jammu & Kashmir	J&K and NRSS29	28-Jan-19	14:24	28-Jan-19	19:03	04:39	220kV Amargarh(NRSS29)-Delina(JK) tripped on R-N fault at 14:22Hrs. At the same time, 220kV Delina(JK)-Zainkote(JK) also tripped. At 14:30Hrs 220kV Amargarh-Zainkote line also tripped due to failure of B-Phase CVT dropper at Zainkote(JK) end. As per PMU, R-N fault and B-N fault is observed in the system.		100	GD-1

				Outag	ge	Revi		Outage	e-Event Report for January 2019				
S.N	o Regio	Name of Elements	Owner/Agen cy	Date	Time	Date	Time	Duration Time	Event	Generation Loss (MW)	Load Loss (MW)	Category as per CEA standards	Energy Unserved (MU)
1	WR	Tripping of 1.400 kV Chandrapur-Parli 2 2.400 kV Chandrapur-Bhadravati 1&4 3.400/220 kV, 315 MVA Chandrapur ICT 2 4.400/11.5 kV 90 MVA Chandrapur ICT 3&5 5.400 kV Chandrapur-Chandrapur II - 2 6.500 kV HVDC Bhadravati pole 2 7.400/220 kV, 315 MVA Chandrapur Spare ICT 8.500 MW Chandrapur Unit 6 9.210 MW Chandrapur Unit 4	MSPGCL	04-01-2019	16:40	04-01-2019	18:34	01:54	At 400 kV Chandrapur station, while transferring 400 kV HVAC circuit 1 of HVDC pole 2 from main bus 2 to transfer bus, B pole of Bus 2 side isolator got stuck resulted in sparking followed by trippping of all the elements connected to 400 kV Bus 2 on Bus Bar protection operation. At the same time HVDC Bhadravati pole 2 tripped on low voltage.	695	Nil	GI-2	Nil
2	WR	Tripping of 1.400/220 kV 500 MVA Kalwa ICT 1&3 2.220 kV Kalwa-Mulkund 2 3.220 kV Kalwa-Salsette 4 4.220 kV Kalwa-colorchem 5.220 kV Kalwa-Trombay 6.220 kV Kalwa-Borivalli	MSETCL	05-01-2019	19:38	05-01-2019	20:10	00:32	At 400/220 kV Kalwa s/s, 220kV Kalwa –Airoli Knowledge Park wavetrap failed and all the elements connected to 220 kv Bus 2 tripped.	Nil	500	Gi-1	0.2667
3	WR	Tripping of 1.400/220 kV 500 MVA Veloda ICT-1 2.400 kV Veluda-Vadavi 3.400 kV Veluda-Charanka 1 4.400 kV Veluda-Banaskantha 1 5.400 kV Veluda-Banaskantha 2	GETCO	07-01-2019	10:13	07-01-2019	11:15	01:02	At 400/220 kV Veluda s/s, pipe bus from R phase isolator of 400 kV Veluda-Vadavi line dropped down from isolator toward its line CT resulted in tripping of all the elements connected to 400 kV Bus 1 on Busbar protection operation.	Nil	Nil	GI-2	Nil
4	WR	Tripping of 1.400 kV Kasor-SSP 2.400 kV Kasor-Rajgarh D/C 3.400 kV Kasor-Chorania 4.400 kV Kasor-GPEC 5.400 kV Kasor Bus Reactor 1&2 6.400 kV 315 MVA Kasor ICT 1&2 7.400 kV S00 MVA Kasor ICT 3	GETCO	15-01-2019	02:50	15-01-2019	05:20	02:30	At 400/220 kV Kasor s/s, Kite string struck between R&B phase of 400 kV Bus 2.Both the buses(Bus 1&2) tripped during the event.	Nil	Nil	GI-2	Nil
5	WR	Tripping of 1.765/400 kV 1500 MVA Durg ICT 1&2 2.765 kV Durg-Champa 2 3.765 kV Durg-Wardha 3 4.765 kV Durg-Wardha 2	PGCIL	23-01-2019	13:58	23-01-2019	14:39	00:41	At 765/400 kV Durg s/s, during the testing of Busbar/LBB protection relay, external LBB initiation extended due to the wrong configuration in Bus bar central unit programmable scheme logic and resulted in tripping of all the elements connected to 765 kV bus 2. Prior to the event 765 kV Bus 1 was under planned shutdown.	Nil	Nil	GI-2	Nil
6	WR	Tripping of 1.20/132 kV 160 MVA Urla ICT 1,2&3 2.400KV Raita-KhedamaraHEDAMARA 2&3 3.20KV Urla-Raipur 4.220KV Urla-Raita 5.20KV Urla-Borjhara 6.220KV Urla-Siltara	CSPTCL	26-01-2019	04:14	26-01-2019	04:49	00:35	At 220 kV Urla s/s, R phase tension insulator of Aux bus failed and conductor snapped which resulted in tripping of all the elements in 220 kV Bus on Bus bar protection operation.220 kV Urla s/s got black out and the downstream Kachna, Birgaon and Hira pooling area got affected due to the event.	Nil	180	GD-1	0.1050
7	WR	Tripping of 1.220KV Bhachau-Cstro 1 2.220KV Bhachau-Charadvad 2 3.220KV Bhachau-Lalpar 4.400/220KV 315 MVA Bhachau ICT1	PGCIL	22-01-2019	11:55	22-01-2019	13:14	01:19	At 400/220 kV Bhachau s/s, 220 kV Bus 1 tripped during wiring work between 220kV Ostro kutch#2 panel (existing) to New bays panel (under construction). During the work trip command extended to 220kV Bus#1 at Bhachau S/s resulting in tripping of all the elements connected to 220kV Bus 1.	0.98	Nil	GI-1	Nil
8	WR	Tripping of 1.765 KV Vadodara-Dhule 2.Main and Tie bays of 765/400 kV 1500 MVA Vadodara ICT 3 and 765 kV 240 MVAR B/R 3.Main bay of 765/400 kV 1500 MVA Vadodara ICT 2	PGCIL	30-01-2019	15:00	30-01-2019	15:36	00:36	765 kV Vadodara-Dhule tripped at Vadodara end only due to DC earth leakage along with Main and Tie bays of 765/400 kV 1500 MVA ICT 3, B/R and Main bay of 765/400 kV 1500 MVA ICT 2	Nil	Nil	GI-2	Nil

Disclaimer: The Above details are based on the preliminary/flash report of the event and may change after finalisation of the detailed report. The qunatum of load/generation loss is based on details given by SLDC and utility and may vary later with updated details.

F	D 1		January 2019
Fastern	Region-Event	Report for	January 2019

								Lastern Negi	on-Event Report for January 2015				
SI.	Region	Name of major elements	Owner / Agency	Outag	e	Re	vival	Outage Duration	Event	Generation Loss	Load Loss (MW)	Category as per CEA Grid Standards	Loss of Energy(in MU)
No				Date	Time	Date	Time	Time		(MW)	(IVIVV)	Standards	WU)
1	ERLDC	400 kV Muzaffarpur - Gorakhpur D/C 400 kV Bus II at Muzaffarpur	ISTS	5-Jan-19	06:56	5-Jan-19	10:26	03:30	400 kV Muzaffarpur - Gorakhpur D/C & 400 kV Bus II at Muzaffarpur tripped	0	0	GI-II	0.0000
2	ERLDC	160 MVA 220/132 kV ATR - I & II 220 kV New Bargarh - New Bolangir S/C 220 kV New Bargarh - Katapalli S/C	GRIDCO	5-Jan-19	10:51	5-Jan-19	11:06	00:15	220 kV New Bolangir - Bolangir (PG) was under shutdown. 220 kV New Bolangir - New Bargarh S/C was the only source to New Bolangir S/S. At 10:52 hrs,160 MVA 220/132 kV ATR - I tripped on REF, differential protection at New Bargarh S/S. Simultaneously B/B protection operated at New Bargarh S/S which led the tripping of 220 kV New Bargarh - New Bolangir S/C, 220 kV New Bargarh - Katapalli S/C and 220/132 kV 160 MVA ATR - II followed by station black out of 220 kV New Bargarh and New Bolangir S/S	0	100	GD-I	0.0250
3	ERLDC	220 kV Gaya - Bodhgaya D/C 220 kV Gaya Khijasarai D/C 220 kV Bodhgaya- Khijasarai D/C	BSPTCL	5-Jan-19	11:20	5-Jan-19	11:32	00:12	220 kV Gaya - Bodhgaya D/C and 220 kV Gaya Khijasarai D/C tripped on Y-B fault on both sides. At the same time, 220 kV Bodhgaya- Khijasarai D/C tripped from Khijasarai end.	0	150	GD-I	0.0300
4	ERLDC	220KV NJP-TLDP IV-II 220KV BINAGURI-NJP-I 220 kV Bus I at NJP	WBSETCL	6-Jan-19	20:34	6-Jan-19	21:54	01:20	220KV NJP-TLDP IV-II, 220KV BINAGURI-NJP-I & 220 kV Bus I at NJP tripped	0	0	GI-II	0.0000
5	ERLDC	220 kV Katapalli - Bolangir S/C 220 kV Katapalli - Hindalco D/C 132 kV Katapalli - Burla D/C 132 kV Katapalli Chiplima D/C	OPTCL	7-Jan-19	15:40	7-Jan-19	16:10		220 kV Katapalli - Bolangir S/C along with 220 kV Katapalli - Hindalco D/C, 132 kV Katapalli - Burla D/C and 132 kV Katapalli Chiplima D/C tripped due to snapping of R phase jumper of 220 kV Katapalli - Bolangir S/C	0	0	GD-I	0.0000
6	ERLDC	400/220 KV 315 MVA ICT II at Gaya 220 KV Gaya-Khijasarai II 220 KV Gaya-Sonenagar II 220 KV Gaya-Dehri I 220 KV Gaya-Bodhgaya I 220 KV Bus Coupler at Gaya	ISTS	9-Jan-19	12:44	9-Jan-19	13:26		220 KV Main Bus II at Gaya tripped at 12:44 Hrs along with '400/220 KV 315 MVA ICT II at Gaya, 220 KV Gaya-Khijasarai II, 220 KV Gaya-Sonenagar II, 220 KV Gaya-Dehri I, 220 KV Gaya-Bodhgaya I & 220 KV Bus Coupler at Gaya	0	0	GI-II	0.0000
7	ERLDC	400/220 kV ICT II at Bakreswar 220 kV Bakreswar - Bidhannagar - II 220 kV Barkreswar - Sadai - II 220 kV Bakreswar - Bidhannagar - II	WBSETCL	21-Jan-19	02:29	21-Jan-19	03:30	01:01	220 kV bus II along with 400/220 kV ICT II at Bakreswar, 220 kV Bakreswar - Bidhannagar - II, 220 kV Barkreswar - Sadai - II, 220 kV Bakreswar - Bidhannagar - II tripped due to CT burst of 220 kV Bakreswar - Bidhannagar - II at Bidhannagar end.	0	0	GI-I	0.0000
8	ERLDC	220 kV Muzaffarpur - Hazipur D/C 220 kV Hazipur - Amnour D/C 220 kV Barauni - Hazipur D/C	BSPTCL	23-Jan-19	12:33	23-Jan-19	13:18		All lines emanating from Hazipur tripped due to fire hazard in 220 kV GIS bay of Amnour at Hazipur due to SF6 gas leakage.	0	124	GD-I	0.0930

								Southern Reg	gion-Event Report for January 2019				
		Name of Elements		Outa	ge	Revi	/al	Outage Duration		Generation Loss	Load Loss	Category as per CEA	Energy
S.No	Region	Name of Elements	Owner/Agency	Date	Time	Date	Time	Time	Event	(MW)	(MW)	standards	Unserved (MU)
1	SR	Tripping of 1.230kV Bhavani-Siruseri CKt-1&2 2.230kV Sholinganallur-Siruseri 3.230kV Kalvindapattu-Siruseri 4.230/110kV, 100Mva ICT-1&2	TANTRANSCO	19-01-2019	05:39	19-01-2019	9-01-2019 07:17 01:38 pol at : rec		Complete outage of 230kV Seruseri Substation-Triggering Incident was Y-Phase fault in 230kV Sholinganailur-Siruseri line.Distance relay picked up at Siruseri end opening y-phase pole.However R and B phase ploes tripped due to maloperation of Bus-1 bus bar protection at Siruseri end.At Sholinganailur A/R was blosked due to another Y-B phase fault during reclaim time. 230kV Siruseri Substation was under single bus operation,hence opeartion of bus bar operation resulted in tripping of all elements resulting in the complete outage.	Nil	74	GD-1	0.084
2	SR	All connected elements tripped.	TANTRANSO & POWERGRID	28-01-2019	01:15	28-01-2019	02:05	00:50	Complete outage of 400kv Sriperumbudur Substation- Triggering Incident was failure of 'R-Phase' HV side current transformer(CT) of 315 Mva 400/230kV ICT-3 at 400kV Seriperumbudur substation(400kV TANTRANSCO swithyard) bus bar protection of bus-1 in TANTRANSCO swithyard operated, however the fault feed continued from POWERGRID Sriperumbudur bus. At POWERGRID end, fault was cleared due to reverse zone operation of the connected feeders. This resulted in complete outage of 400kV Sriperumbudur substation.	Nil	116	GD-1	0.1790

Grid Disturbances in NER Grid for January 2019

	I. lo Regi	n Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generatio n Loss (MW)	Load Loss (MW)	Generatio n Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
1	1 NE	132 kV Ranganadi Ziro & 132 kV Daporijo - Ziro	POWERGRID,DoP, Arunachal Pradesh	04-01-2019 14:35:00	04-01-2019 15:00:00	00:25	Ziro area of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Ziro Line. At 14:35 Hrs on 04.01.19, 132 kV Ranganadi - Ziro Line tripped. Due to tripping of this element, Ziro area was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	0.000	0.005	GD-I
2	2 NE	Meghalaya power system (except Menthipathar area).	POWERGRID & MePTCL	16-01-2019 21:03:00	16-01-2019 21:15:00	00:12:00	Meghalaya Power System (except Mendipathar area) was connected with rest of the NER Grid through 132 kV Khleihriat-Khleihriat D/C, 132 kV Killing (Byrnihat) - EPIP I D/C and 132 kV Killing (Byrnihat) - EPIP II D/C. 132 kV Nangalbibra-Nongstoin line was kept open from 15:51 Hrs of 16.01.2019 for controlling over loading of 132 kV Khleihriat - Khleihriat I & II line. 132 kV Lumshnong - Panchgram line was kept open from 17:50 Hrs of 16.01.2019 for controlling over loading of 132 kV Badarpur-Panchgram line. At 21:03 Hrs on 16.01.19, 132 kV Killing (Byrnihat) - EPIP I D/C and 132 kV Killing (Byrnihat) - EPIP II D/C and 132 kV Killing	104	269	0.021	0.054	GD-II
3	3 NE	132 kV Dharmanagar - Dullavcherra; 132 kV P K Bari - Dharmanagar & 132 kV Hailakandi Dullavcherra	AEGCL & TSECL	17-01-2019 13:56:00	17-01-2019 14:14:00	00:18:00	Dharmanagar area of Tripura Power System and Dullavcherra area of Assam Power System were connected with rest of the NER Grid through 132 kV P K Bari - Dharmanagar line and 132 kV Hailakandi - Dullavchera line. At 13:56 Hrs on 17.01.19, 132 kV P K Bari - Dharmanagar and 132 kV Hailakandi - Dullavcherra lines tripped. Due to tripping of these lines, Dharmanagar area of Tripura Power System and Dullavcherra area of Assam Power System were separated from rest of the NER Grid and subsequently collapsed due to no source in these areas.	0	22	0.000	0.006	GD-I
4	1 NE	P K Bari, Ambasa and Dharmanagar areas of Tripura Power System and Dullavchera area of Assam	AEGCL, TSECL &	21-01-2019 08:43:00	21-01-2019 09:02:00	00:19:00	P K Bari, Ambasa and Dharmanagar areas of Tripura Power System and Dullavchera area of Assam were connected with rest of the NER grid through 132 kV P K Bari - Silchar 1 & 2 lines, 132 kV P K Bari - Kumarghat line, 132 kV Ambasa - Gamaitila line, 132 kV P K Bari - Kamalpur line and 132 kV Hailakandi - Dullavcher line. 132 kV Ambasa - Kamalpur line kept open at Ambasa end. At 08:43 Hrs on 21.01.19, 132 kV P K Bari - Silchar 1 & 2 lines, 132 kV P K Bari - Kumarghat line, 132 kV Ambasa - Gamaitilla line, 132 kV P K Bari - Kamalpur line and 132 kV Hailakandi - Dullavcher line tripped. Due to tripping of these elements, P K Bari, Ambasa and Dharmanagar areas of Tripura Power System were separated from rest of the NER grid and subsequently collapsed due to no source in these areas.	0	25	0.000	0.008	GD-I

SI N		Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generatio n Loss (MW)	Load Loss (MW)	Generatio n Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
5	NER	Kamalpur and Rangia areas of Assam Power System and Motonga area of Bhutan Power System	AEGCL	23-01-2019 14:11:00	23-01-2019 16:17:00	02:06:00	Kamalpur and Rangia areas of Assam Power System and Motonga area of Bhutan Power System were connected with rest of NER Grid through 132 kV Kamalpur- Kahilipara line. 132 kV Rangia-Bornagar line and 132 kV Rangia-Nalbari line kept open due to voltage issue, 132kV Rangia - Sipajhar line, 132 kV Rangia- Rowta line and 132 kV Sisugram - Kamalpur line kept open due to overloading ofdue to voltage issue. At 14:11 Hrs on 23.01.2019, 132 kV Kamalpur- Kahilipara line tripped. Due to tripping of this element, Kamalpur and Rangia areas of Assam Power System and Motonga area of Bhutan Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	39	0.000	0.082	GD-I
€	NER	Imphal area (capital area) of Manipur Power System	MSPCL & POWERGRID	26-01-2019 05:37:00	26-01-2019 06:08:00	00:31:00	Imphal area (capital area) of Manipur Power System was connected with rest of NER Grid through 132 kV Imphal (PG) - Imphal I & II lines (132 kV Kakching-Kongba line kept open for overloading of 132 kV Imphal - Ningthoukhong line kept open for overloading of Loktak - Ningthoukhong and 132 kV Karong - Kohima (NG) line kept open for overloading of 132 kV Dimapur (PG) - Kohima (NG) line). At 05:37 Hrs on 26.01.2019, 132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Imphal area (capital area) was separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	45	0.000	0.023	GD-I
7	NER	Hailakandi area of Assam Power System	AEGCL & POWERGRID	26-01-2019 13:23:00	26-01-2019 14:07:00	00:44:00	Hailakandi area of Assam Power System was connected with rest of the NER Grid through 132 kV Silchar - Hailakandi I & II lines, 132 kV Dullavchera - Hailakandi line and 132 kV Hailakandi - Panchgram line. At 13:23 Hrs on 26.01.2019, 132 kV Silchar - Hailakandi I & II lines, 132 kV Dullavchera - Hailakandi line and 132 kV Hailakandi - Panchgram line tripped. Due to tripping of these elements, Hailakandi area of Assam Power System was separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	15	0.000	0.010	GD-I
8	NER	Ningthoukhong area of Manipur Power System and Kongba S/S	MSPCL, NHPC & POWERGRID	27-01-2019 14:06:00	27-01-2019 14:30:00	00:24:00	Ningthoukhong area of Manipur Power System was connected with rest of NER Grid through 132 kV Loktak-Ningthoukhong line.132 kV Kongba S/S was connected to Manipur Power System via. 132 kV Yaingangpokpi Kongba line. 132 kV Imphal (PG) - Ningthoukhong line and 132 kV Kakching-Kongba line kept open for overloading of 132 kV Loktak-Ningthoukhong line. At 14:06 Hrs on 27.01.2019, 400kV Silchar-Imphal I line; 132 kV Loktak-Ningthoukhong line, 132 kV Loktak-Jiribam line & 132 kV Yaingangpokpi Kongba line tripped. Due to tripping of these elements, Ningthoukhong area and Kongba S/S were blacked out and were separated from rest of NER Grid and subsequently collapsed due to no source in this area.	0	36	0.000	0.014	GD-I

SI No		Name of Element	Owner / Agency	Date and Time of Tripping	Date and Time of Restoration	Outage Duration	Event	Generatio n Loss (MW)	Load Loss (MW)	Generatio n Loss in MU	Load Loss in MU	Category as per CEA Grid Standards
9	NER	Itanagar area (capital area) of Arunachal Pradesh Power System	NEEPCO & DoP, Arunachal Pradesh	29-01-2019 12:48:00	29-01-2019 13:25:00	00:37:00	Itanagar area (capital area) of Arunachal Pradesh Power System was connected with rest of NER Grid through 132 kV Ranganadi - Itanagar & 132 kV Pare - Itanagar (132 kV Lekhi-Itanagar line kept open due to low CT ratio restriction at Lekhi end). At 12:48 Hrs on 29.01.2019, 132 kV Ranganadi - Itanagar & 132 kV Pare - Itanagar lines tripped. Due to tripping of these elements, Itanagar area (capital area) was separated from rest of NER Grid and subsequently collapsed due to no source in these areas.	0	11	0.000	0.007	GD-I
10) NER	Imphal area (capital area) of Manipur Power System	MSPCL & POWERGRID	29-01-2019 17:43:00	29-01-2019 17:51:00	00:08:00	Imphal area (capital area) of Manipur Power System was connected with rest of NER Grid through 132 kV Imphal (PG) - Imphal I & II lines (132 kV Kakching-Kongba line kept open for overloading of 132 kV Loktak - Ningthonkhong line and 132 kV Karong - Kohima (NG) line kept open for overloading of 132 kV Dimapur (PG) - Kohima (NG) line). At 17:43 Hrs on 29.01.2019, 132 kV Imphal-Imphal I & II lines tripped. Due to tripping of these elements, Imphal area (capital area) was separated from rest of NER Grid and subsequently collapsed due to no source in these areas.		110	0.000	0.015	GD-I

					NER-List of	Grid Incidents d	uring Januai	ry 2019				
S.No.	Region	Plant Involved	Name of Elements	Owner / Agency	Outage Date & Time	Revival Date & Time	Outage Duration	Event (Brief Details)	Generati on Loss (MW)	Load Loss MW	Energy Unserv ed (MU)	Category as per CEA Grid Standard
1	NER	BgTPP	BgTPP Unit 2	NTPC	17-01-2019 10:55:00	17-01-2019 11:45:00	00:50:00	BgTPP Unit 2 tripped at 10:55 Hrs on 17.01.19 due to Class A Trip relay operation during commissioning work of Transfer Bus. (Revision of schedule from Block No. 48 on 17.01.19).	153	0	0.128	GI-II
2	NER	AGBPP	AGBPP Unit 6	NEEPCO	20-01-2019 10:05:00	20-01-2019 11:00:00	00:55:00	AGBPP Unit 6 tripped at 10:05 Hrs on 20.01.2019 due to Power supply failure. (Revision of schedule from Block No.45 on 20.01.2019).	26	0	0.021	GI-II
3	NER	AGTPP	AGTPP Unit 3 and AGTPP (STG - II)	NEEPCO	27-01-2019 05:30:00	27-01-2019 06:15:00	00:45	AGTPP Unit 3 tripped at 05:30 Hrs on 27.01.19 due to Differential Air filter problem which subsequently tripped AGTPP (STG - II) due to unavailability of both GTG 3 and GTG 4. (Revision of schedule from Block No. 26 on 27.01.19).	27	0	0.020	GI-I
4	NER	AGTPP	AGTPP Unit 3	NEEPCO	29-01-2019 00:39:00	29-01-2019 01:15:00	00:36:00	AGTPP Unit 3 tripped at 00:39 Hrs on 29.01.19 due to Air filter house differential pressure high. (Revision of schedule from Block No. 06 on 29.01.19).	14	0	0.008	GI-I