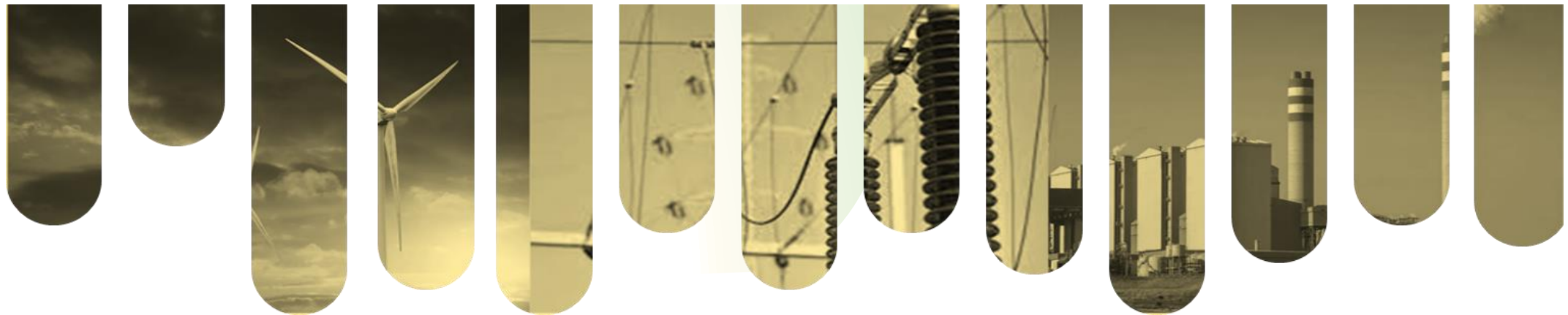




MINISTRY IN THE PRESIDENCY FOR ELECTRICITY



MINISTERIAL ENERGY ACTION PLAN BRIEFING

DR KGOSIENTSHO RAMOKGOPA

Minister in the Presidency for Electricity

19 November 2023



GENERATION PERFORMANCE

Generation performance Month-to-Date (M-T-D) Nov 2023 vs May 2023 Baseline

Date (08:00 daily)	Capacity Available (MW)	Planned outages (MW)	UCLF, Partial Losses & outage delays (MW)	Partial Load Losses (MW)	p.m. peak forecasted (MW)	Units at Risk (MW)	Outage Slip (MW)
30 Oct - 03 Nov 23	27398	3619	17033	5907	27571	3549	3657
06 Nov - 10 Nov 23	28465	4531	14931	7783	27398	3391	2165
13 Nov - 17 Nov 23	26499	4920	16247	7385	27304	3273	2303
M-T-D Avg	28430	4810	14523	6494	27527	4336	1783
May-23 Baseline	27410	3120	17369	6793	31135	6579	3478



GENERATION PERFORMANCE

KEY INSIGHTS

1. Forced Shutdowns: Unplanned Capability Losses (UCLF Events)

Station/Unit	Capacity (MW)	Time of failure	Expected End Date	Reason
Kendal 05	640	16 Nov 2023 09:56	17 Nov 2023 12:00	Boiler tripped on boiler drum level high. Still under investigation.
Medupi 06	720	12 Nov 2023 00:05	17 Nov 2023 22:00	Unit 6 Turbine tripped on Generator Protection Trip
Duvha 05	575	11 Nov 2023 00:03	17 Nov 2023 22:30	Force shutdown for Condenser tube leak repairs.
Hendrina 04	190	15 Nov 2023 20:31	18 Nov 2023 23:00	Unit tripped due to turbine vibrations.
Duvha 06	575	14 Nov 2023 22:29	18 Nov 2023 23:30	Force shutdown due to feed range water leak repairs
Kriel 02	405	15 Nov 2023 04:30	19 Nov 2023 05:00	Boiler Circulating pump replacement
Camden 04	175	14 Nov 2023 12:00	21 Nov 2023 23:00	Boiler tube leak repairs
Kriel 03	405	12 Nov 2023 04:54	22 Nov 2023 05:00	RIP: Unit shutdown for Clinker removal and BTF
Kriel 06	475	01 Oct 2023 21:00	03 Dec 2023 05:00	MT bearings 1&2 inspection and repairs
Tutuka 02	585	11 Sep 2023 06:10	09 Dec 2023 22:00	AM: Main Turbine bearings inspections and repairs
Hendrina 07	157	20 Oct 2023 23:15	22 Dec 2023 23:00	Manual shutdown due to high Turbine vibrations.
Kusile 02	720	03 Nov 2022 07:50	24 Dec 2023 23:59	Flue gas duct failure assessment
Grootvlei 01	190	01 May 2023 18:30	29 Dec 2023 23:00	Unit off load for RH FFP structural re-inforcement and repairs
Ankerlig 12	148	03 Jul 2023 18:38	01 Jul 2024 23:59	Generator failure
Total:	5960			

2. Forced Shutdowns: Other Capability Losses (OCLF Events)

Station/Unit	Capacity (MW)	Time of failure	Expected End Date	Reason
Palmiet 02	200	25 Sep 2023 02:07	31 Jan 2024 23:59	Rotor earth fault, water ingress into Gen from major storm damaging roof.
Total:	200			



GENERATION PERFORMANCE

KEY INSIGHTS

3. Outage Delays

Station/Unit	Capacity (MW)	Outage Start Date	Date of slip	Expected End Date	Reason
Lethabo 04	593	10 Nov 2023 09:10	15 Nov 2023 09:11	20 Nov 2023 12:00	AM: Boiler tube leak.
Tutuka 06	585	10 Nov 2022 23:41	02 Nov 2023 09:30	15 Sep 2025 22:00	AM: U6 from outage slip - Air heater replacement after fire incident.
Camden 01	190	18 Sep 2023 02:15	13 Nov 2023 02:14	17 Nov 2023 15:00	System Generated Slip Event linked to PCLF Event : 1857937
Hendrina 05	181	01 Oct 2022 00:00	03 Jan 2023 23:59	21 Nov 2023 12:00	System Generated Slip Event linked to PCLF Event : 1743750
Koeberg 01	924	10 Dec 2022 03:50	21 Oct 2023 03:49	17 Nov 2023 23:00	Outage slip - delays during execution
Total:	2473				

4. Planned outages and load reduction

Station/Unit	Capacity (MW)	Planned Start	Expected RTS	Reason
Majuba 05	193	16 Nov 2023 12:47	31 Dec 2023 23:59	FFP Cell rebagging
Medupi 01	720	03 Nov 2023 18:57		Inspections
Ingula 01	331	01 Nov 2023 21:00	21 Nov 2023 23:59	UNIT HANDED OUT FOR 18M ROUTINE & STATUTORY
Grootvlei 02	190	14 Nov 2023 15:49	14 Dec 2023 15:48	Unit shutdown for Interim repairs (IR)
Duvha 01	575	18 Sep 2023 23:50	17 Dec 2023 23:59	MO - LP Refurbishment (50khr)
Kendal 03	640	09 Aug 2023 20:32	16 Jan 2024 23:59	Unit shut down for planned outage.
Matimba 02	615	10 Nov 2023 11:01	20 Jan 2024 23:59	MAINTANANCE OUTAGE
Hendrina 10	190	15 Jun 2023 00:51	04 Feb 2024 04:00	GO - RBI / HP / LP / GEN.
Hendrina 02	190	30 Jun 2023 00:00	13 Feb 2024 13:00	IR Outage
Kendal 06	640	17 Nov 2023 02:05	18 Feb 2024 23:59	IR and ESV steam leak repairs
Tutuka 05	585	11 Oct 2023 00:36	19 Mar 2024 00:35	GENERAL OVERHAUL
Total:	4869			



THANK YOU

