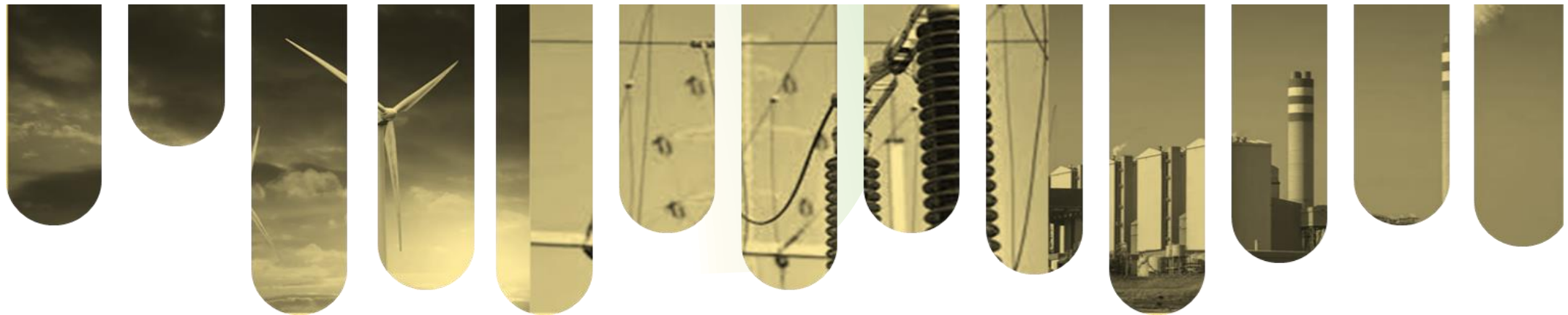




MINISTRY IN THE PRESIDENCY FOR ELECTRICITY



MINISTERIAL ENERGY ACTION PLAN BRIEFING

DR KGOSIENTSHO RAMOKGOPA

Minister in the Presidency for Electricity

21 December 2023



GENERATION PERFORMANCE

Generation performance for the week 11 Dec – 14 Dec 2023

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)	Load Shedding Stages (range)
11-Dec-23	28220	7520	11944	6811	27723	1983	1370	Stages 3/4
12-Dec-23	27984	7102	13043	6842	27005	1983	1775	Stages 2/3
13-Dec-23	26205	7820	13979	7003	26388	2589	1575	Stage 2
14-Dec-23	27154	8132	12654	5723	24586	1993	1170	Stage 2
Average	27391	7644	12905	6595	26426	2137	1473	
May-2023 Baseline	27410	3120	17369	6793	31135	6579	3478	



GENERATION PERFORMANCE

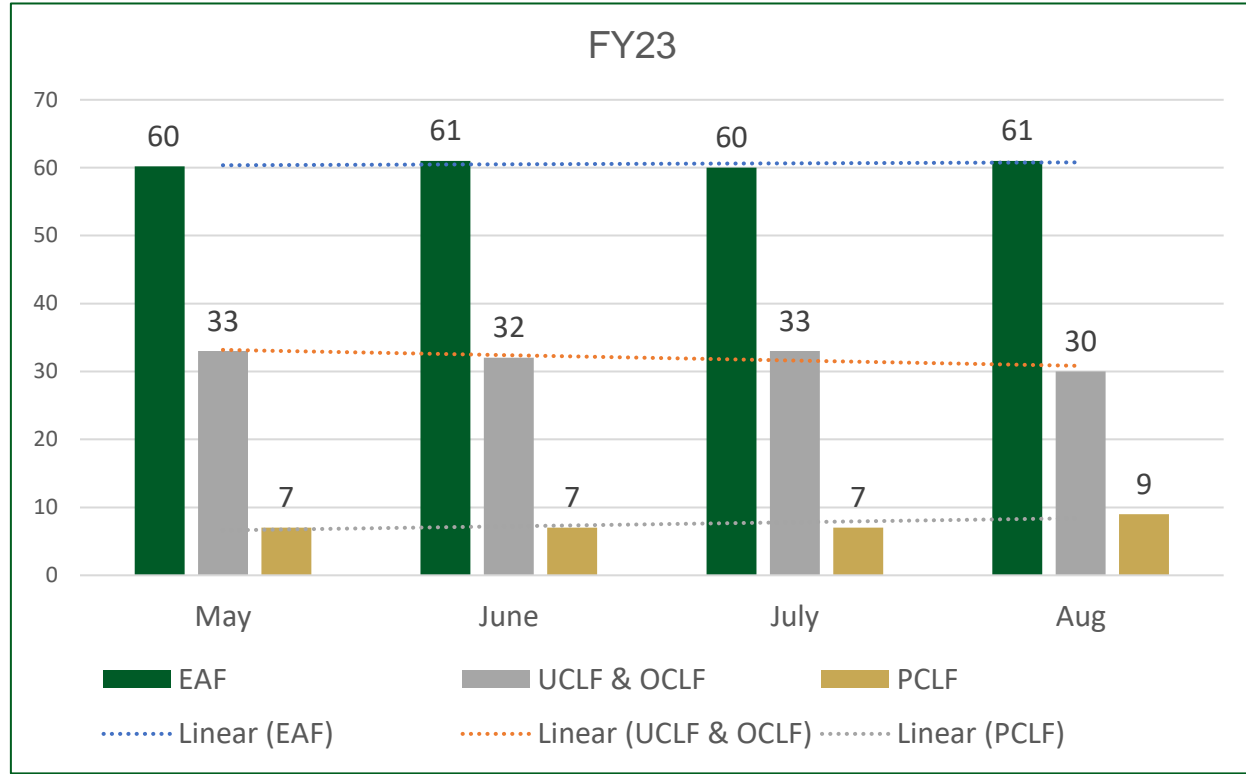
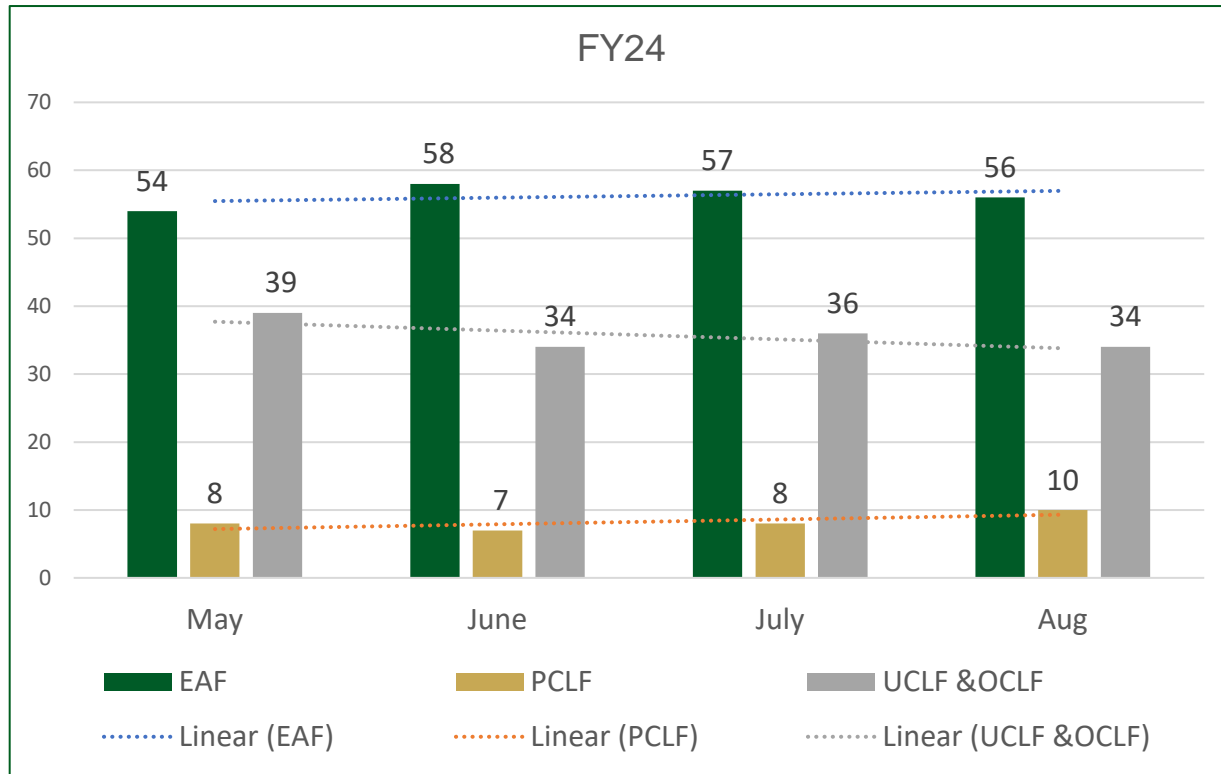
Generation performance for the week 18 Dec – 21 Dec 2023

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)	Load Shedding Stages (range)
18-Dec-23	29380	8149	10486	5805	25187	2608	585	No LS
19-Dec-23	27552	7524	12651	6855	24943	3373	585	No LS
20-Dec-23	27660	7864	12420	6190	24387	3948	1225	No LS
21-Dec-23	26346	7912	13424	6418	24263	1225	2336	No LS
Average	27735	7862	12245	6317	24695	2789	1183	
May-2023 Baseline	27410	3120	17369	6793	31135	6579	3478	



WINTER PERFORMANCE

FY 2023 VS FY 2024



- EAF during the FY24 winter was lower than in FY23 however the trend was positive despite the 3330MW removed from the system at Kusile and Koeberg in FY24 winter as well as higher PCLF.
- UCLF & OCLF showed a positive trend although higher in FY24 due to the non operative three units at Kusile

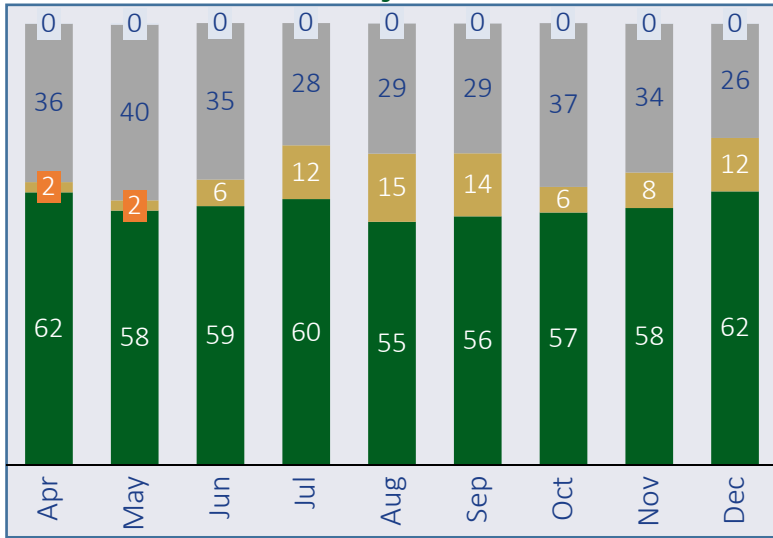


GENERATION PERFORMANCE

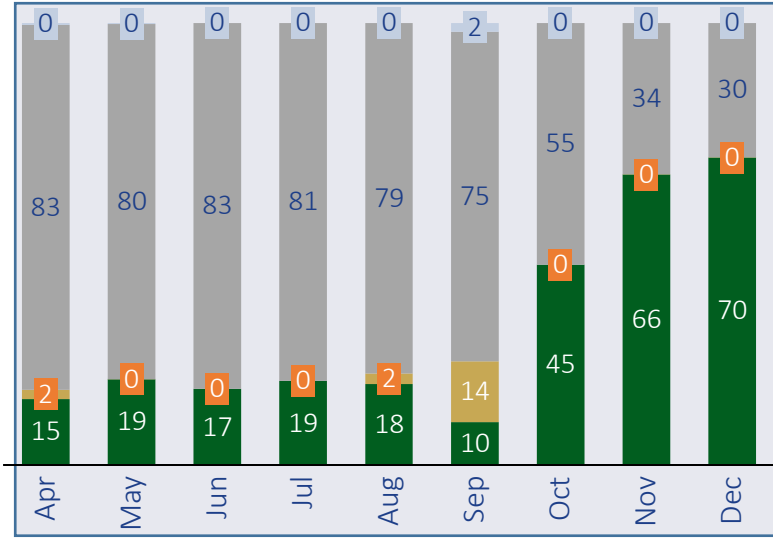
■ OCLF
 ■ UCLF
 ■ PCLF
 ■ EAF

Performance in % of the six Gen Recovery programme Station: Majuba, Kusile, Duvha, Tutuka, Kendal, Matla – All stations showing a positive trend on UCLF

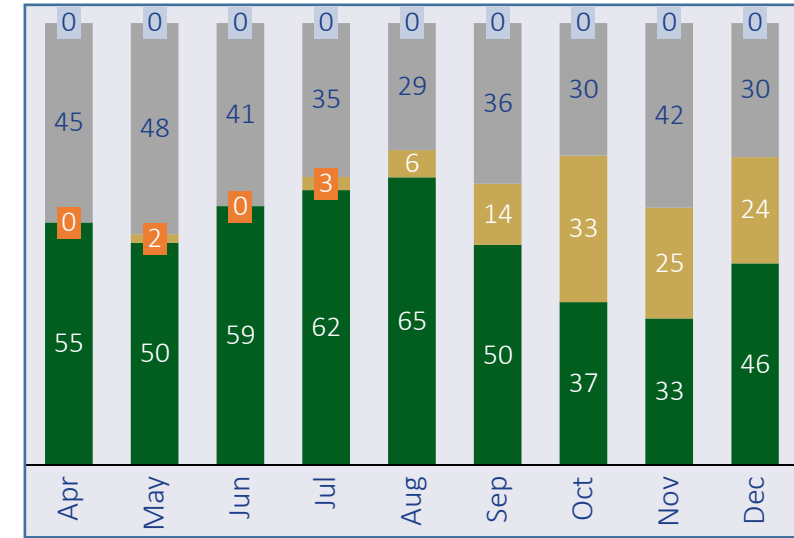
Majuba



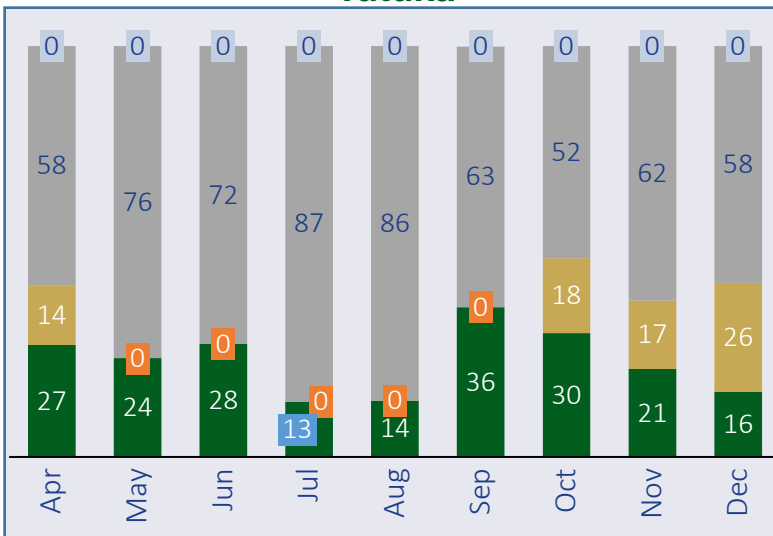
Kusile



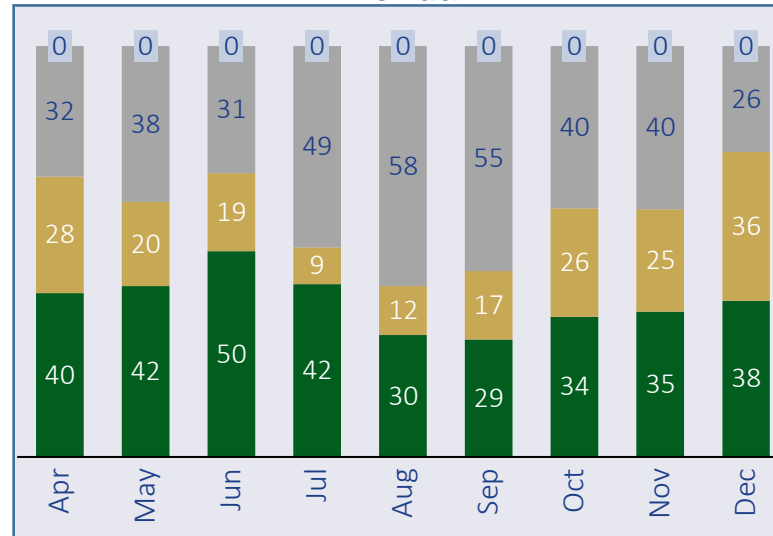
Duvha



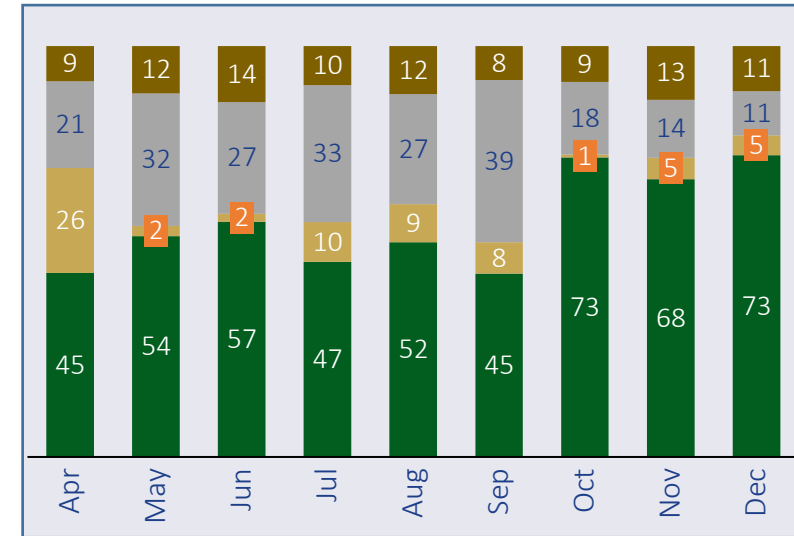
Tutuka



Kendal



Matla



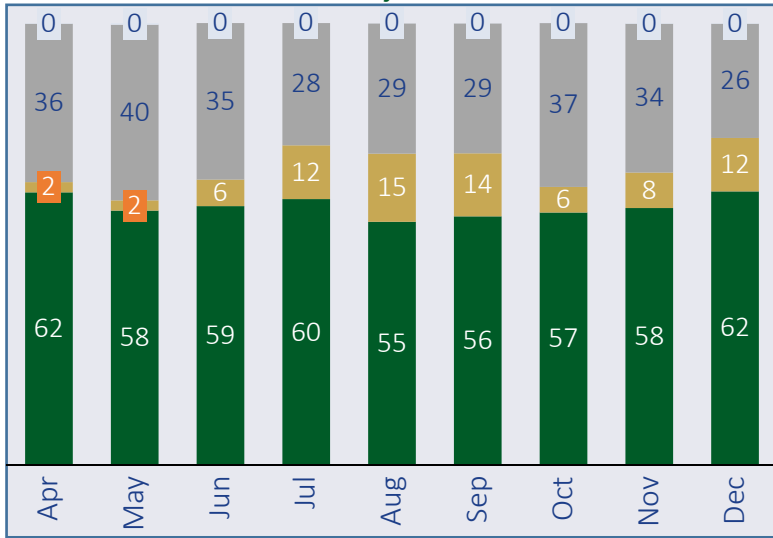


GENERATION PERFORMANCE

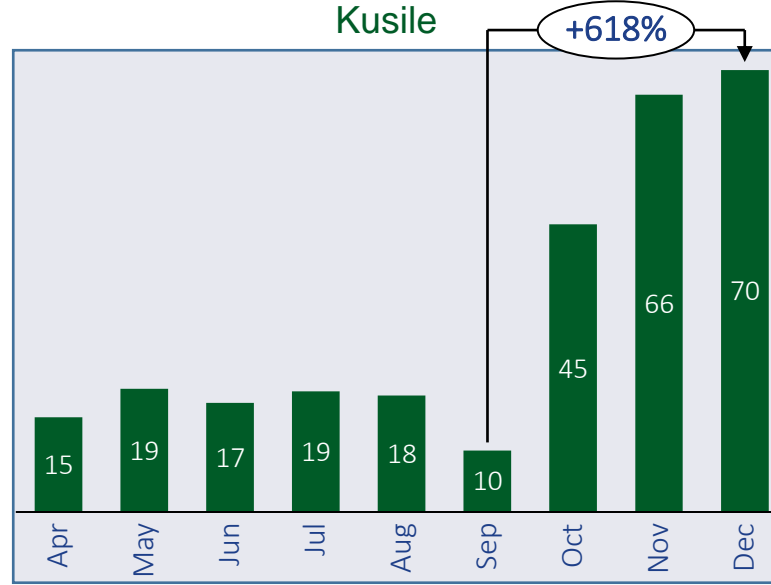
■ OCLF
 ■ UCLF
 ■ PCLF
 ■ EAF

Performance in % of the six Gen Recovery programme Station: Majuba, Kusile, Duvha, Tutuka, Kendal, Matla- Matla & Kusile showing major EAF improvement and all stations trending positive on UCLF

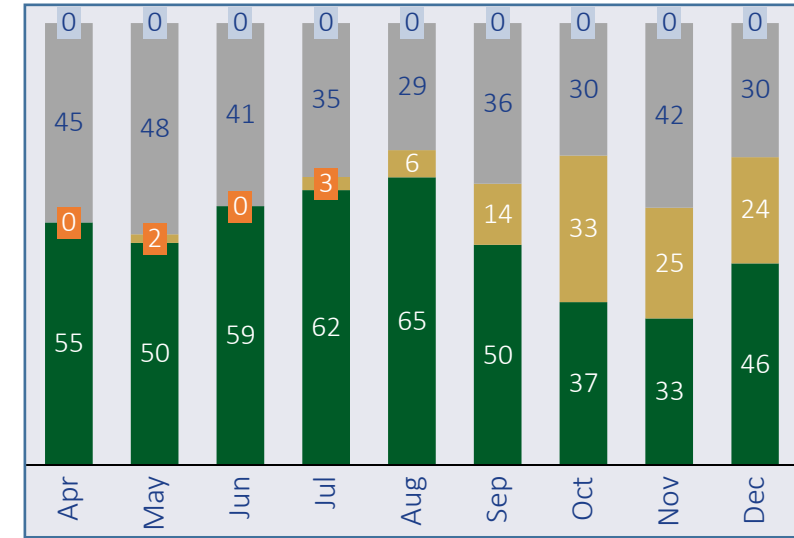
Majuba



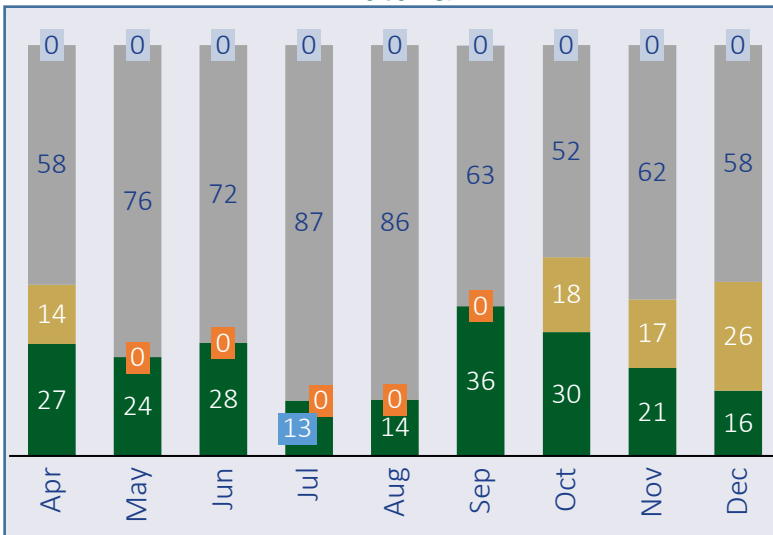
Kusile



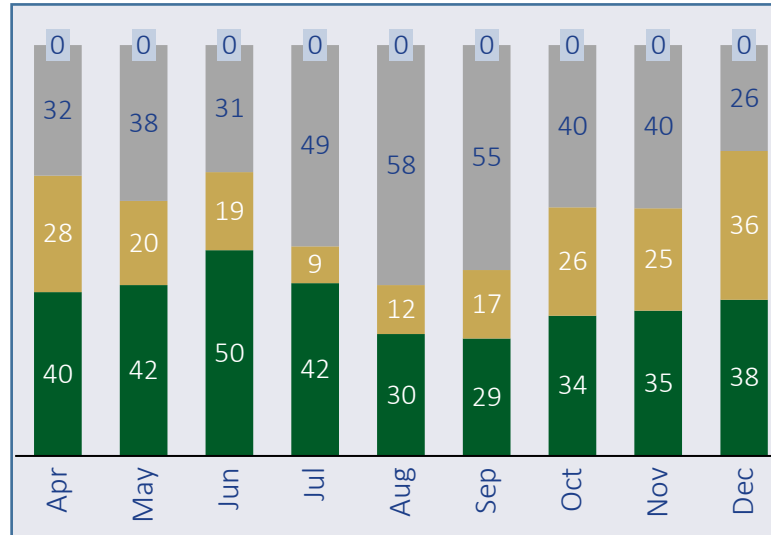
Duvha



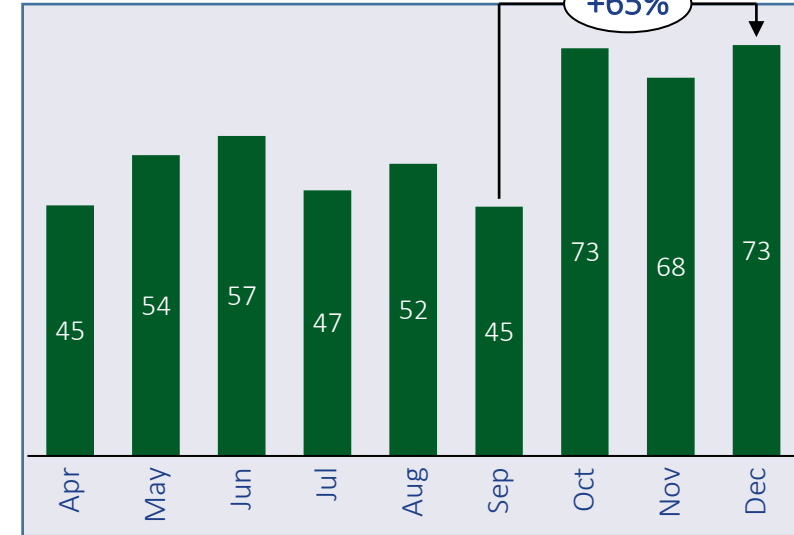
Tutuka



Kendal



Matla





GENERATION PERFORMANCE

2023 LOWLIGHTS

YTD EAF PERFORMANCE

At 55.44%, the YTD EAF performance as of 15 December 2023 remains below the year-end target of 60% regrettably contributing to the continued need for loadshedding.

Fleet unreliability

Unreliability of the coal fleet has hindered net gain on the recovery plan, thus the full net benefits of MW recovered have not yet been seen on the overall performance

Koeberg outage slip

Koeberg outage extension added additional pressure on the rest of the Generation system

OCGTs

Open Cycle Gas Turbines cost is ~R17 878Bn vs Budget YTD R19 492bn with very high usage in May and November (an additional R2 836Bn has been secured).



GENERATION PERFORMANCE

2023 HIGHLIGHTS



Despite the challenges at Koeberg, the **Unit 1 Steam Generator Replacement project** was completed on 18 November 2023.

This is essential to maintain the 1 800 MW in the Cape region and once the steam generators on **unit 2 have been replaced in July 2024** and the licence extended, more stability is expected.



Expediting the innovative temporary solution, with the assistance of the DFFE to **bring back all 3 Kusile units ahead of schedule**. This added 2400MW back into the power system and contributed to reduced stages of loadshedding:

Unit 3 returned to service ahead of schedule by two months on 30 September 2023

Unit 1 returned to service one and a half month ahead of schedule on 16 October 2023

Unit 2 returned to service two days ahead of schedule on 28 November 2023. All units are running within the approved



Delayed de-commissioning

Three units planned for shutdown (Camden U1 and U2 – 380 MW, Hendrina U10 – 190 MW) have been considered to continue operating adding 570MW into the grid.



GENERATION PERFORMANCE

2023 HIGHLIGHTS

Power stations showing consistent performance:

Peaking (86.7%), Camden (61.1%), Medupi (80.7%), Lethabo (76.4%). (EAF performance as at the end of November 2023)



Two stations have achieved a YTD EAF greater than 80%

(Peaking 86.7%, and Medupi 80.7%) by November 2023, with Lethabo close at 76.4%



Stations showing positive improvement trajectory

Duvha, Tutuka, Majuba, Camden, Hendrina and Grootvlei



Environmental Emissions Limits

for the temporary /auxiliary stacks and monitoring of air quality is within specification for the various areas as agreed to with the Authorities



With the **Standard Offer Programme**, 100MW was added to the grid from May to November 2023 and 1036.6MW in the contracting phase.



Emergency Generation Programme added 60 MW from July/August to November 2023 with 421.7MW in a contracting phase





GENERATION PERFORMANCE

2023 HIGHLIGHTS

Demand-side Management

The launch of and intensified **Demand Side Management** campaigns assisting in managing demand.

Virtual wheeling solutions

Virtual wheeling solutions available to customers and generators to incentivise establishment of generation facilities (Wheeling provides an opportunity for incumbents to invest in new generation capacity and use the Eskom network to prospective off-takers)



NEW GENERATION: RENEWABLES

BID WINDOW 7 RELEASED: 14 DECEMBER 2023

TOTAL MEGA WATTS

5000 MW
WIND – 3200 MW
PV – 1800 MW

PREFERRED BIDDER

Preferred Bidder
announcement

EXPECTED FINANCIAL CLOSE

Anticipated one month
after commercial close.

30 APRIL 2024

JANUARY 2025

JANUARY 2027

DEC 2023

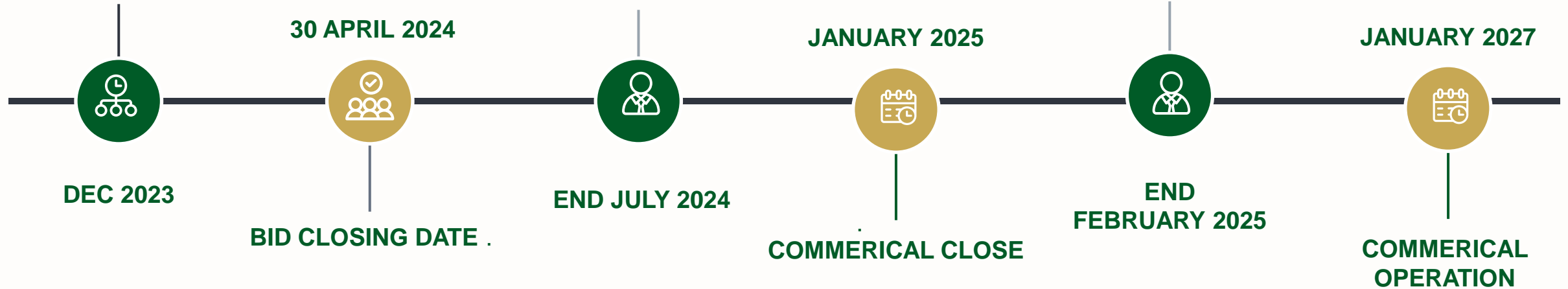
BID CLOSING DATE

END JULY 2024

COMMERCIAL CLOSE

END
FEBRUARY 2025

COMMERCIAL
OPERATION





THANK YOU

