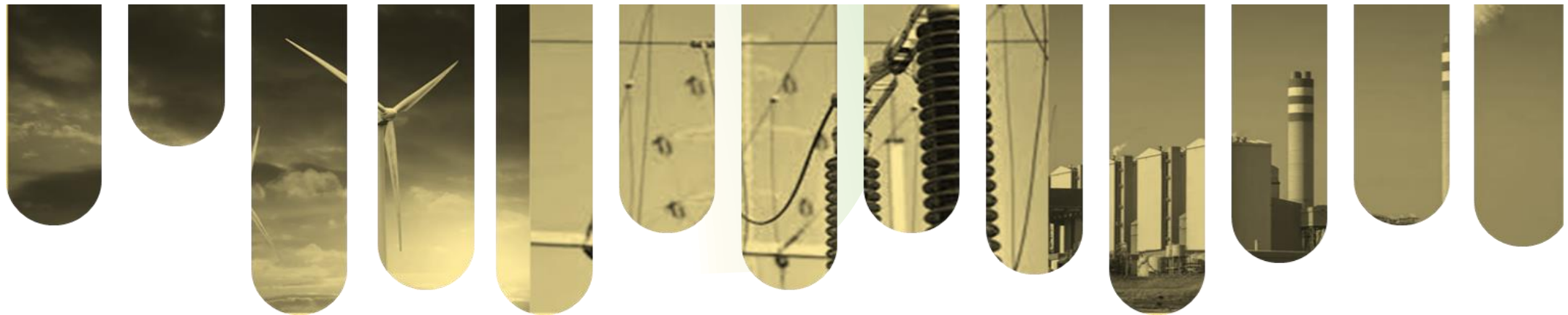




MINISTRY IN THE PRESIDENCY FOR ELECTRICITY



MINISTERIAL ENERGY ACTION PLAN BRIEFING

DR KGOSIENTSHO RAMOKGOPA

Minister in the Presidency for Electricity

22 January 2024



GENERATION PERFORMANCE

Generation performance for the week 08 January 2024 – 12 January 2024

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)
08-Jan-24	25894	8244	13877	6608	24604	2 591	2291	No LS
09-Jan-24	26029	7638	14315	6500	24977	3206	2897	No LS
10-Jan-24	26294	7785	13925	7489	24983	4217	2106	Stage 1/2
11-Jan-24	25570	7638	14794	6707	25410	3812	2106	Stage 1/2
12-Jan-24	26588	7828	13618	7042	25169	4197	1491	Stage 1/2
Average	26075	7827	14106	6869	25029	3605	2178	



GENERATION PERFORMANCE

Generation performance for the week 15 January 2024 – 22 January 2024

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)
15-Jan-24	25690	8383	13933	6931	25507	2414	1871	Stage 3
16-Jan-24	24491	8383	15169	6992	25313	4177	1871	Stage 2/3
17-Jan-24	26100	8336	13427	6946	25503	3584	2321	Stage 2/3
18-Jan-24	25696	8336	13427	6619	25665	4159	2321	Stage 2/3
19-Jan-24	25282	8484	13427	6690	24966	3584	2321	Stage 2/3
22-Jan-24	26254	8327	13427	6497	25930	2403	2936	Stag 2
Average	25586	8375	13802	6779	25481	3584	2274	



GENERATION PERFORMANCE

KOEBERG UNIT 1 UPDATE

Unit 1 Status

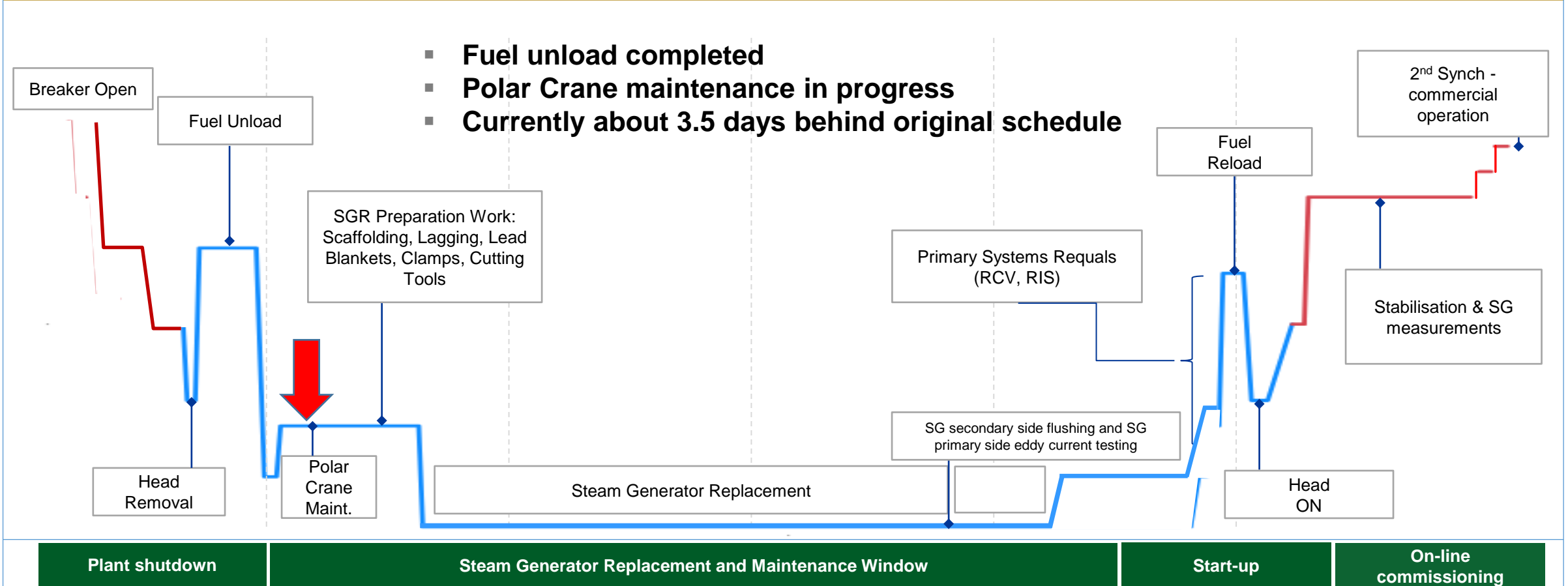
- Unit is at 100% power and has been synchronized to the grid since 18 November 2023
- All commissioning tests have been successfully completed (step load changes, large fast power rams up and down, and full house load test from full power)
- Unit has successfully demonstrated the ability to house load (23 December 2023) – although expected, as part of grid code – the Koeberg units do not routinely verify capability trough testing.
- Although the performance confirmation assessments have not yet been performed, the unit output is about 27 MW higher than before (reversal of the reduced primary operating temperature and larger heat transfer surface area)
- The long-standing risk associated with the old steam generator tube degradation and the small primary to secondary leakage has now been retired. (Unit 1 replaced, and Unit in progress)



GENERATION PERFORMANCE

Koeberg unit 2 outage 205 day plan - started on 11 December 2023

High-level Outage Execution windows – Status as of 9 January 2024





GENERATION PERFORMANCE

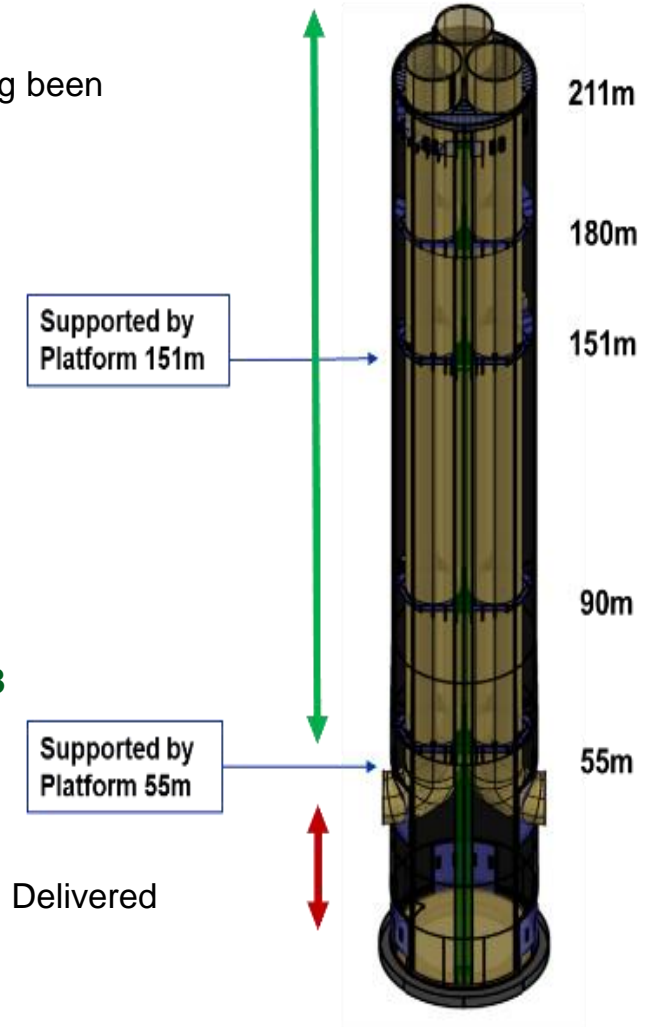
Kusile - Permanent Stack Remediation - Progress

Platform 151m load transfer:

- Jacking/Load Transfer Methodology – The Final methodology report has been submitted with all identified risks having been fully investigated and mitigation actions taken. **Completed on 12 October 2023**
- Installation of monitoring equipment support brackets completed at both 151m and 180m platforms. **Completed**
- 151m Support Brackets – analysis and strengthening post load transfer in progress. **Completed**
- Installation of jacking platform to commence once load distribution equipment **Completed**
- Jacking system activate on Unit 1 vertical flue. **Completed**
- Activation on units 2 & 3 is planned for 4 & 5 November 2023. **Completed**
- Load transfer from 151m to 180m was scheduled for the 7th of November - **Load transfer successfully executed 08 November 2023. The overall stability of Chimney West has been established.**

55m Level:

- Design and rigging methodology completed. Head frame designed, material procurement and fabrication completed. Delivered to site.
- Lobster bend stabilisation design and procurement completed. Partial delivery to site.





GENERATION PERFORMANCE

Kusile - Permanent Stack Remediation – Critical Activities

- The **Permanent Stack Remediation** involves the following activities: Establishing **stability within the stack** for safe access.
 - **Installation of an Alimak** external to the stack to allow access to “safe areas”. - **Complete**
 - **Stabilise compromised levels:** This will be executed by specialist riggers & the associated design and method statements will be produced by ICC. - **151m level stabilised/complete, 55m level stabilization in progress,**
 - **Cleaning of the Stack and Flue Internals:** Rockent Industrial Services mobilization to site completed and preliminary testing conducted. - **In Progress**
 - **Fabrication of damaged members and flues** as required -this scope will likely be executed by the temporary stack fabricators. - **In Progress**
 - **Outages:** to re-connect units to permanent stack (tentative planned).
- **Projected completion** date is envisaged to be **31 December 2024**, (however, dependent on various current unknowns)

Note: A critical activity was the stabilization and load transfer of the 151m level which was successfully completed in November 2023. Stack and Flue internal cleaning trials have commenced in December 2023. Based on the results a project plan will be detailed in January 2024.



GENERATION PERFORMANCE

Medupi 4 Recovery Overview – Achievements and Delays

Achievements

May 2023 – New Generator Stator procured

June 2023 – Turbine modules refurbishment completed

Aug 2023 – Majority of Roof repairs completed, allowing for works to continue below.

October 2023 – Civil Assessment on turbo-gen block completed. Concor identified to perform repairs – procurement in progress

October 2023 - Second- Hand Generator Stator tested and procured. Dismantling in progress. Estimated Delivery – **24 February 2024**

November 2023 – HVAC repairs in progress

Transport Plan

- Detailed transport plan required by site owner prior to any lifting.
- Require 5 days for approval.
- Dutch language requirement.

Holidays

- Site closure from 22 Dec to 3 Jan 24.
- No work during this period.

Weather

- No lifting during windy conditions.



THANK YOU

