THE PRESIDENCY
REPUBLIC OF SOUTH AFRICA

MINISTRY IN THE PRESIDENCY FOR ELECTRICITY

Ministerial EAP Update

Dr Kgosientsho Ramokgopa
Minister in the Presidency for Electricity
02 September 2023

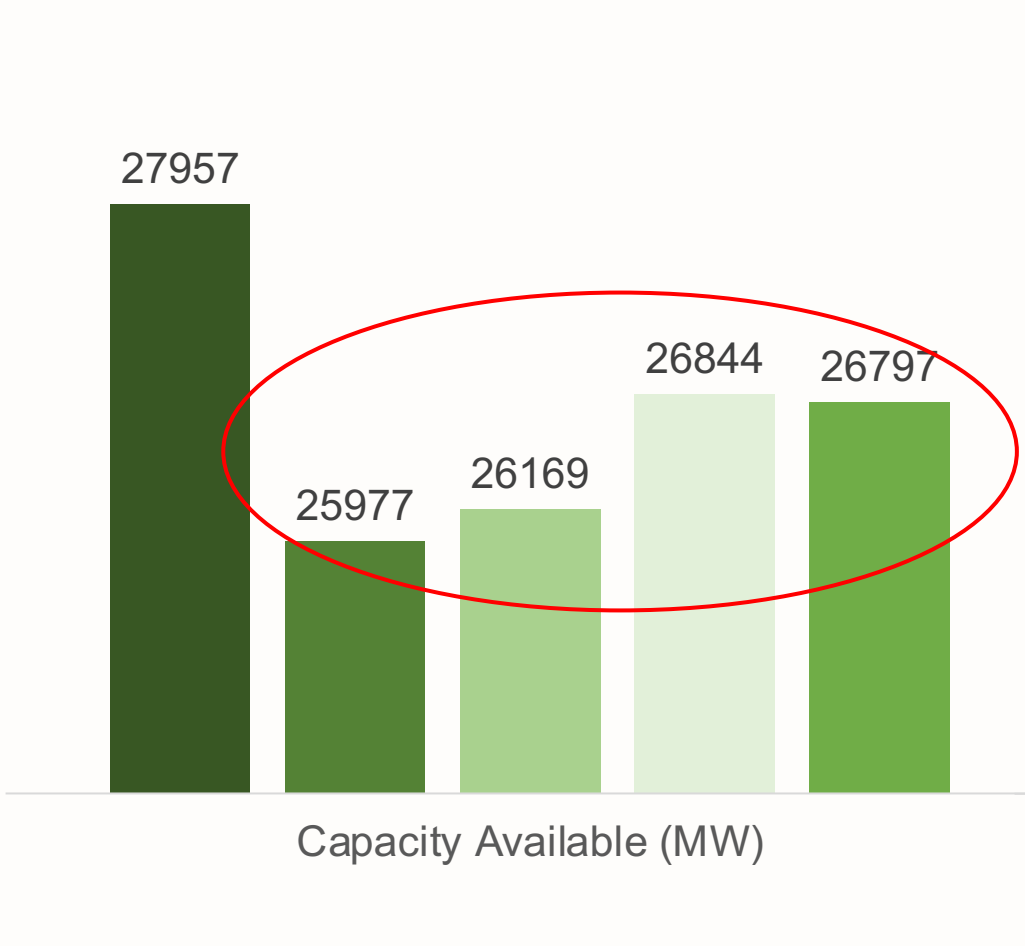
GENERATION PERFORMANCE

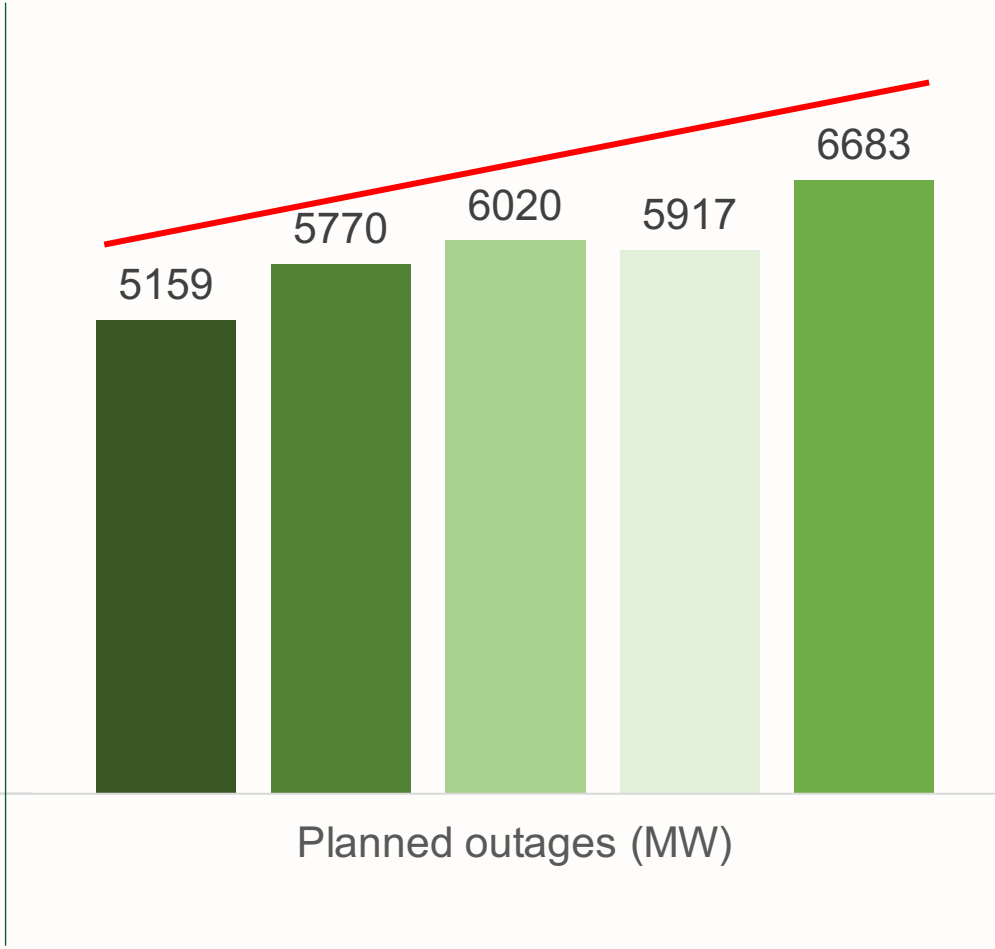
Generation performance for the week 28 Aug 2023 to 01 September

GENERATION OUTLOOK FOR PERIOD 28 SEPTEMBER 2023 TO 01 SEPTEMBER 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)**
28-Aug-23	27957	5159	14771	6287	28278	5114	784	Stage 1/3
29-Aug-23	25977	5770	16184	5389	28512	5719	766	Stage 2/3
30-Aug-23	26169	6020	15551	6020	28543	6304	766	Stage 2/4
31-Aug-23	26844	5917	14922	5278	27639	6304	766	Stage 4
01-Sep-23	26797	6683	14515	6031	27120	5711	766	Stage 4
Average	**26749**	**5910**	**15189**	**5801**	**28018**	**5830**	**770**	

GENERATION PERFORMANCE

Generation performance for the week 28 Aug 2023 to 01 September 2023





Although generation dipped this week, the week also saw **planned outages (good maintenance) increasing sharply,** peaking at 6683MW on 28-Aug 2023, closing the weak on an average of 5910 MW.

01-Sep 2023 | 31-Aug 2023 | 30-Aug 2023 | 29-Aug 2023 | 28-Aug 2023

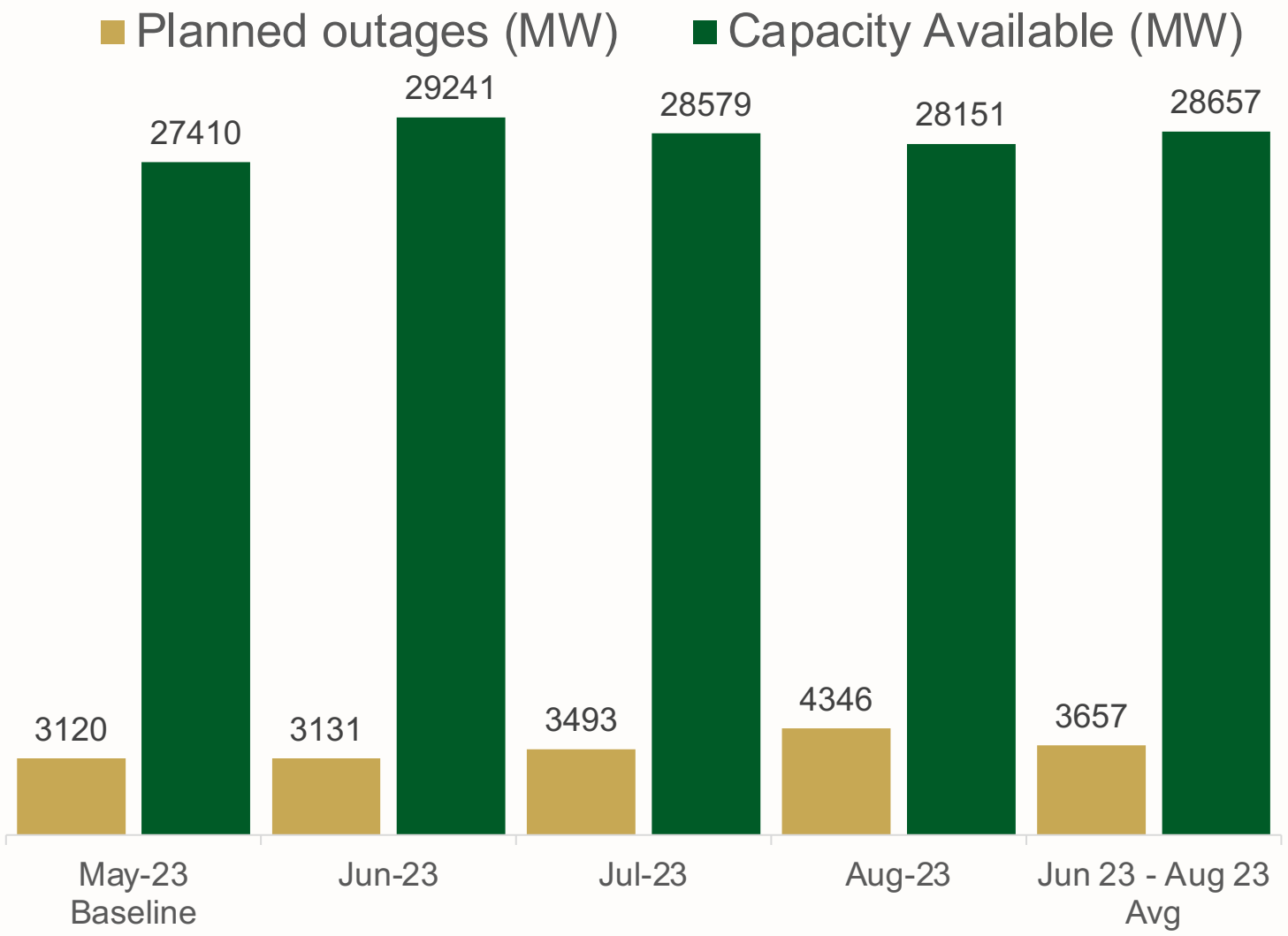
GENERATION PERFORMANCE

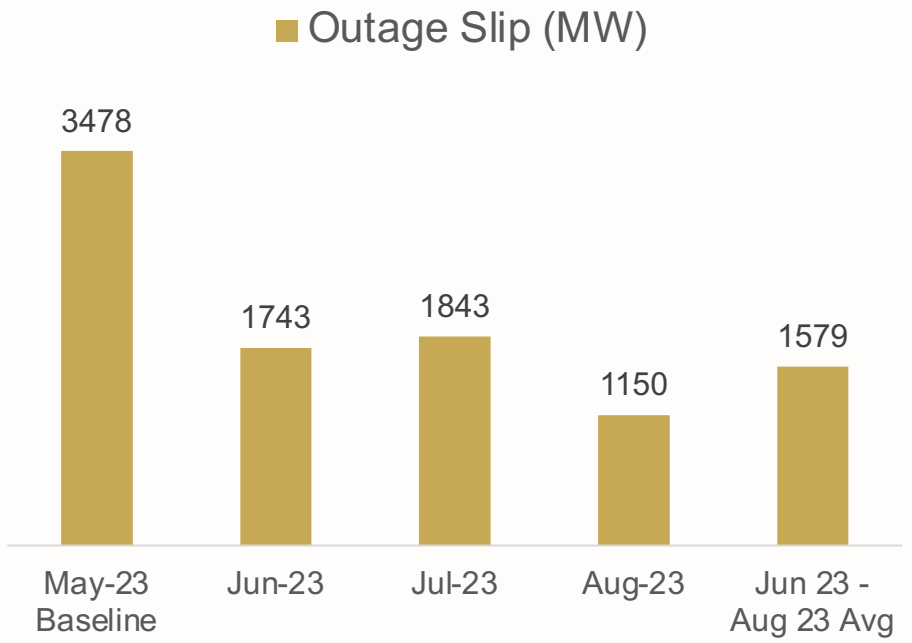
Generation performance Month-on-Month (Jun – Aug 2023) vs May 2023 Baseline

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)
May-23 Baseline	27410	3120	17369	6793	31135	6579	3478
Jun-23	29241	3131	15540	7171	30197	6383	1743
Jul-23	28579	3493	15787	6636	30510	7745	1843
Aug-23	28151	4346	15459	6327	29034	6917	1150
Jun 23 - Aug 23 Avg	**28657**	**3657**	**15595**	**6711**	**29914**	**7015**	**1579**

GENERATION PERFORMANCE

Generation performance Month-on-Month vs May 2023 Baseline

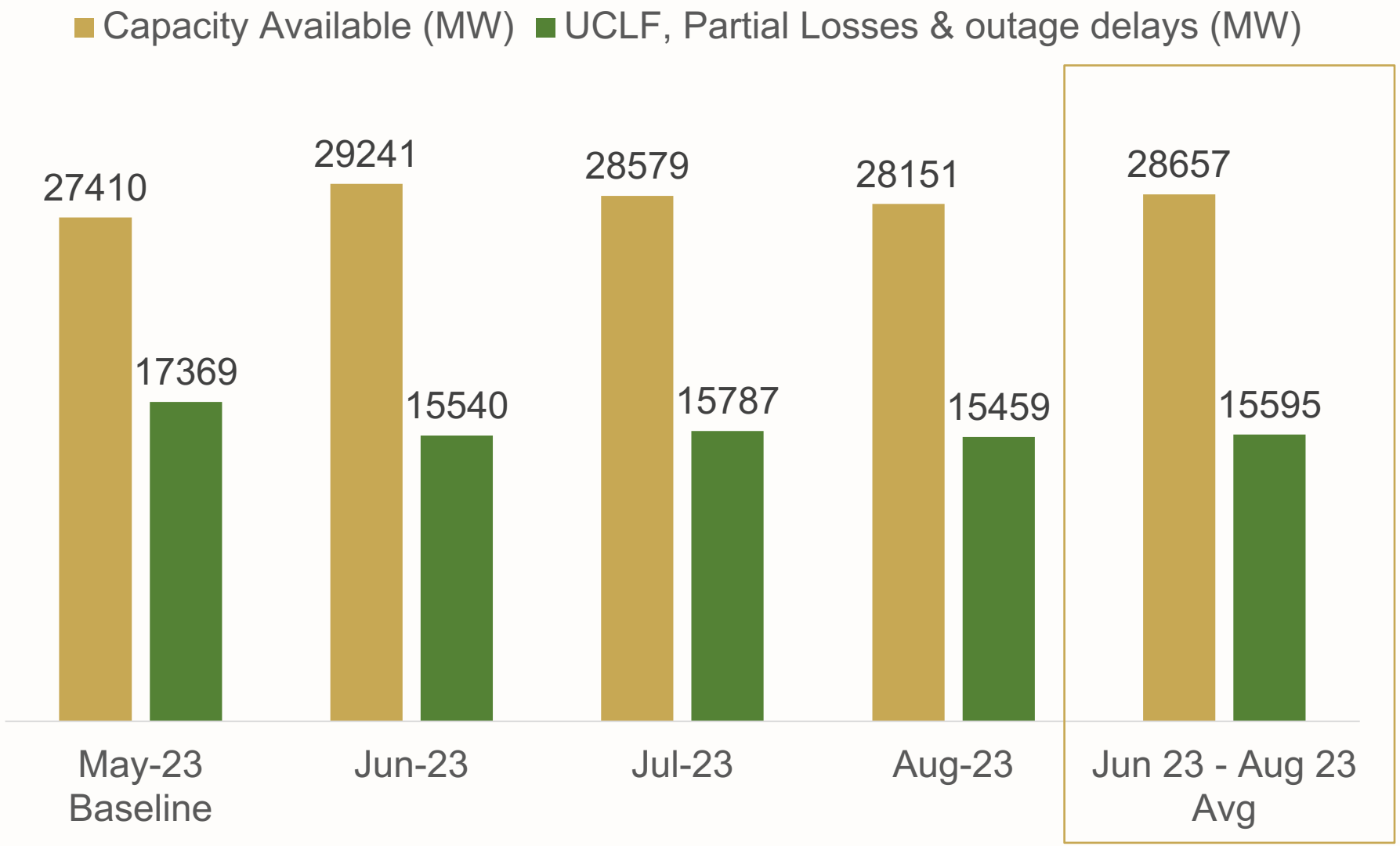




As planned maintenance increases (good maintenance), outage slips is showing a positive declining trend over the period June – August 2023 dropping to 1150MW in August from a May 2023 baseline of 3478MW

GENERATION PERFORMANCE

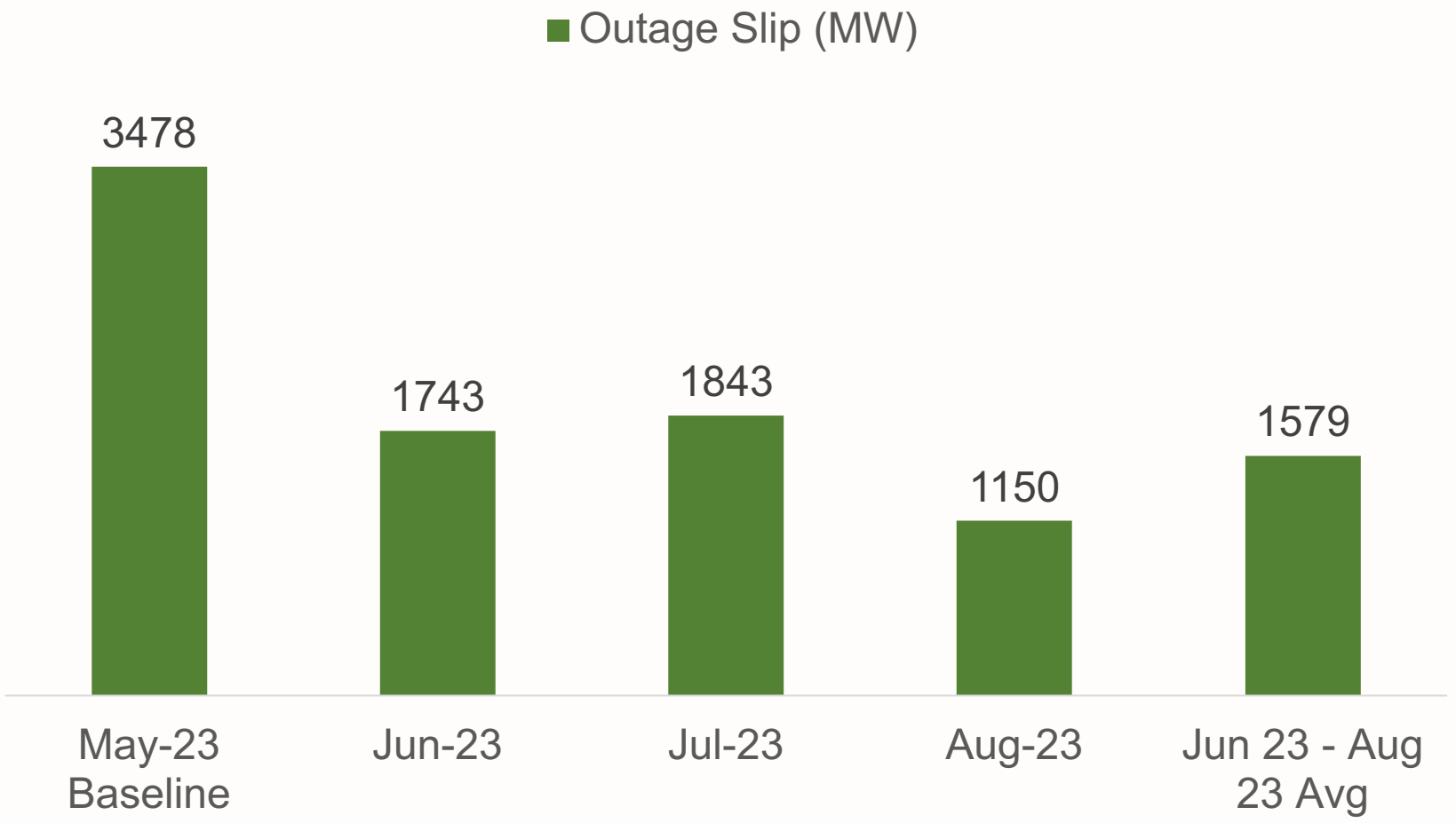
Generation performance Month-on-Month vs May 2023 Baseline



In May 2023, the delta between available capacity and unplanned Capacity loss was 63.36%. Averaged for the three months of June – August 2023, the delta has been reduced to 54.44%, or an 11 per cent (absolute) point reduction, implying that more capacity is available on the trend line.

GENERATION PERFORMANCE

Generation performance Month-on-Month vs May 2023 Baseline



Outage slips **have decreased (positive trend) from a May 2023 baseline of 3478MW to an average of 1579MW** for the three months of June – August 2023. This represents an **improvement of 54.60% in the efficiency** of outage management.

GENERATION PERFORMANCE

Generation performance Month-on-Month vs May 2023 Baseline: Key Take Aways

Increases in the quantum of planned maintenance, coupled with a reduction in outages, means, that going into the future, the units can be expected to operate at a higher reliability factor.

Whilst the system remains under pressure, the trend line demonstrates a sustained positive move in EAF, however, it is critical that new generation needs to be brought on line urgently to support the improved efficiency of the fleet

Demand side management and small-scale embedded generation must continue to be encouraged, to support the

INDEPENDENT POWER PRODUCER PROGRAMME

SOCIO-ECONOMIC DEVELOPMENT IMPACT

A significant feature of the IPPPP is a focus on economic and socio-economic development impacts that IPPs commit to over the lifetime of the project.

72 153
job years
Employment opportunities created for South African citizens during construction and operations

3.2
Rand billion
(actual) contribution realised for **Socio-Economic development end Enterprise Development**

97.0
Mton CO_2 offset
By electricity generated by these projects (REIPPPP only)

114.7
Million kiloliters
Water savings since programme inception (REIPPPP only)

38.7%
Shareholding
by **black South Africans achieved**

9.6%
Shareholding
by **Local communities achieved**

69.2
Rand billion
Actual Local Content spend, which amounts to around 50% of total project value

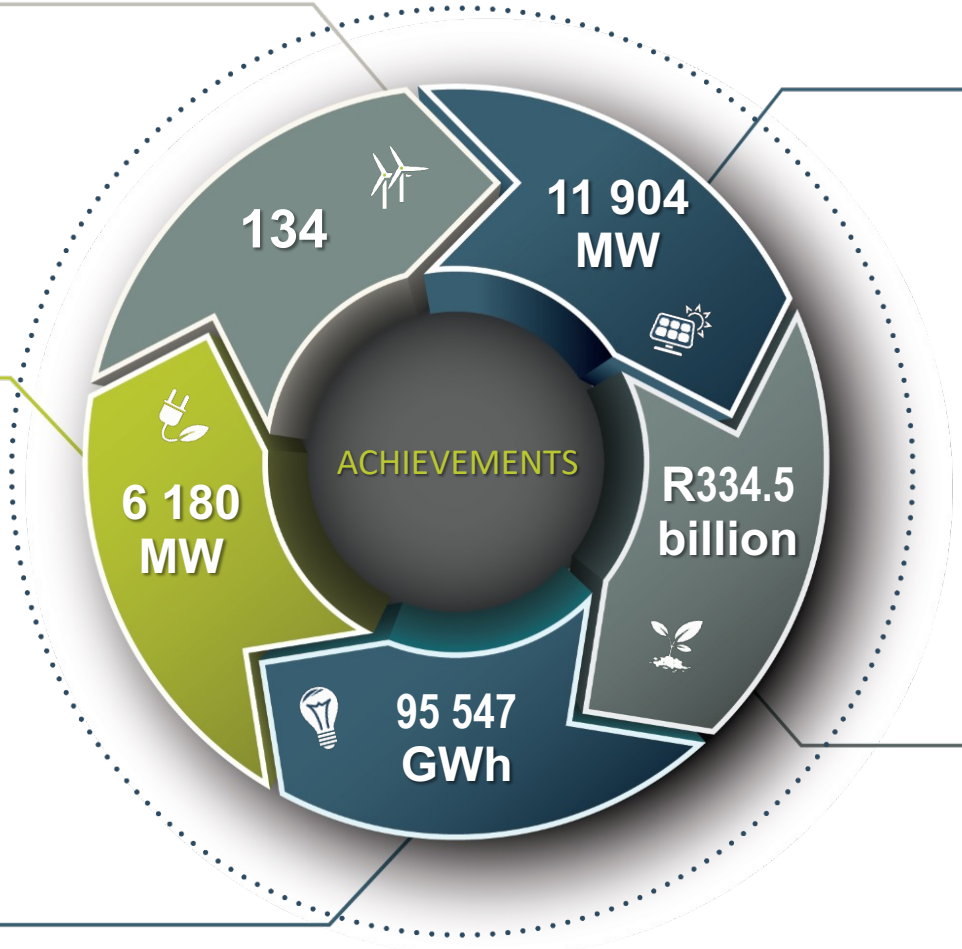
85.0
Rand billion
(actual) **BBBEE spend to date**

All data as at June 2023 (REIPPPP Bid Windows 1 to 6 and Risk Mitigation IPPPP)

INDEPENDENT POWER PRODUCER PROGRAMME

The IPP Procurement Programme has been a major catalyst to introduce private sector players in the energy space in South Africa

IPPs **selected** as preferred bidders



electricity capacity **procured**

already **operational** from **90 IPPs**

energy **generated** by Renewable Energy sources

investment attracted for energy infrastructure (all bid windows)

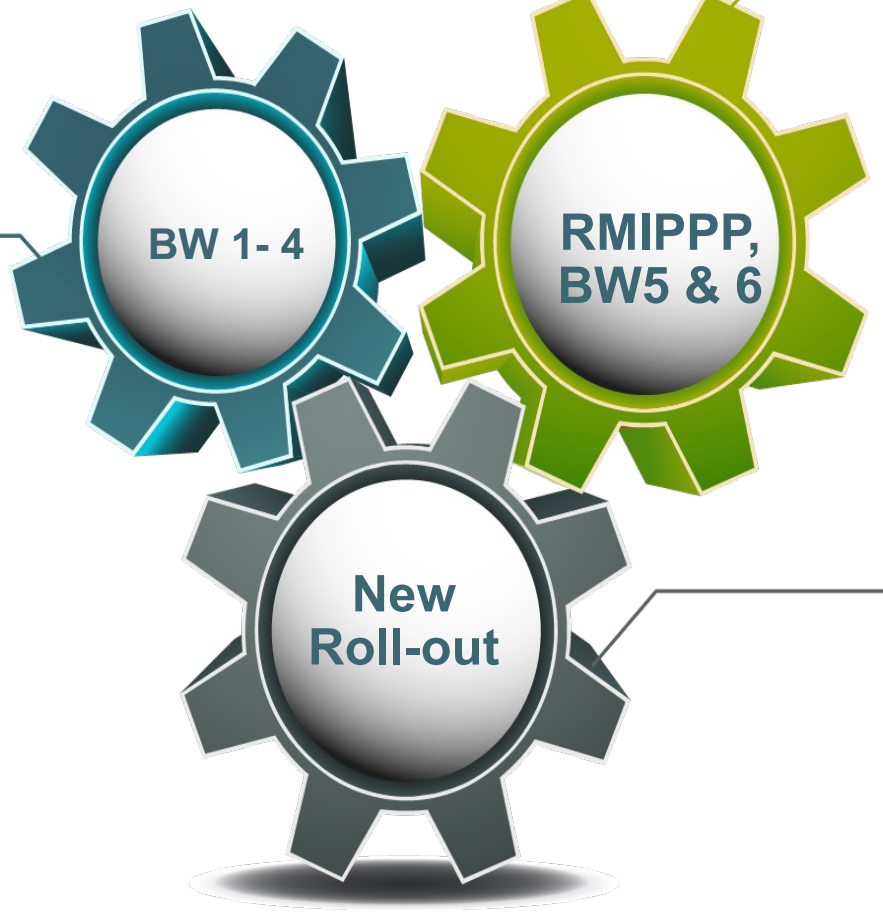
All data as at June 2023 (REIPPPP Bid Windows 1 to 6 and Risk Mitigation IPPPP)

INDEPENDENT POWER PRODUCER PROGRAMME

CURRENT STATUS

Total MW in Operation

6 180 MW from
90 RE Projects



Achievements to date

- **Capacity procured** since August 2020: **5.58 GW**
- **Legal Close: 2 112 MW (**5 RMIPPPP and 19 BW5 Projects)
- **In Construction: 1 159 MW (5** RMIPPPP and 9 BW5 Projects)
- **New Preferred Bidders: 1 000 MW (**REIPPPP BW 6)

Plans for remainder of 2023-24

- Battery Energy Storage BW 1. Bid Submission on 2 August – 17 bids received. Evaluation in progress
- BW 7 RFP to be released to market (target Q2)= **5 000 MW**
- Gas RFP to be released to market (target Q2) = **2 000 MW**
- Battery Energy Storage BW 2 = **1 231MW** (target Q4)
- Gas BW2 = **1 000MW** (target Q4)
- Remaining RMIPPPP Projects to Legal Close and Commercial Close by no later than December 2023
- Remaining BW 5 Projects to Commercial Close by Dec 2023

INDEPENDENT POWER PRODUCER PROGRAMME

IPPP procurement under the 2019 IRP Determinations (13 813 MW)
(Risk Mitigation IPP Programme, Renewable Energy IPP Bid Windows 5&6, Storage and Gas)

RMIPPP 1 998 MW procured	BID WINDOW 5 2 583 MW procured	BID WINDOW 6 1 000 MW procured	STORAGE (513 MW) RFP	GAS (3 000 MW) Conceptualisation & Design
3 Projects (150 MW) in construction, to connect to grid from November 2023 8 Projects preparing for Commercial Close	9 Projects (1 009 MW) in construction, to connect to grid from August 2024 10 Projects preparing for Commercial Close	6 Projects (1 000 MW) announced as Preferred Bidders Preparing for Close	RFP released to market on 7th March 2023 Bid Submission on 2 August completed – 17 bids received	Conceptualisation completed Drafting of RFP underway
		3 200 MW wind capacity could mot be allocated due to grid unavailability	Evaluation commenced on 8 August 2023	RFP Design dependent on Gas import facilities

INDEPENDENT POWER PRODUCER PROGRAMME

IPPP procurement under the 2023 IRP Determination (14 771 MW)
(Solar PV, Wind and Energy Storage Procurement Plan for Financial Year 2023/24)

REIPPPP
BID WINDOW 7
5 000 MW

RFP Design
3nd Quarter of
FY 2023/24

REIPPPP
BID WINDOW 8
5 000 MW

Conceptualisation & Design
RFP Planned for 4th Quarter of
FY 2023/24

ESIPPPP
BID WINDOW 2
615 MW

Conceptualisation & Design
RFP Planned for 3rd Quarter of
FY 2023/24