

EUL 2023 TARIFF APPLICATION

Public Hearing

8th December 2022



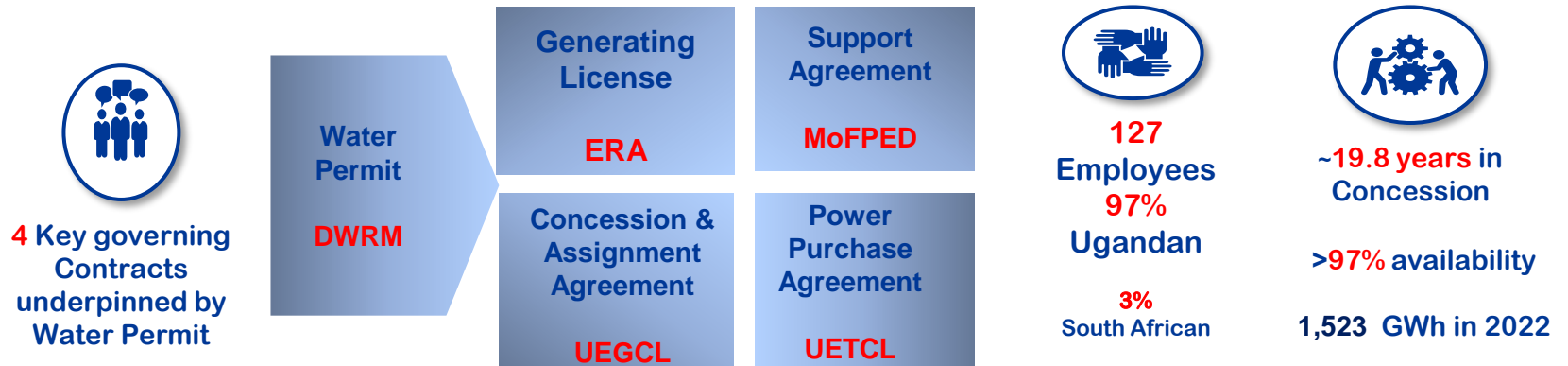
Complex Overview



- **About Eskom**
- **2023 Tariff application Assumptions**
- **Tariff Analysis**
- **EUL Contribution to the Grid**
- **Performance highlights**
- **Investments undertaken**
- **Benefits & contributions**
- **Benefits of Investments**



Overview of Eskom Uganda Limited –Wholly owned by Eskom Enterprises SOC Limited.



2022 Tariff application Assumptions

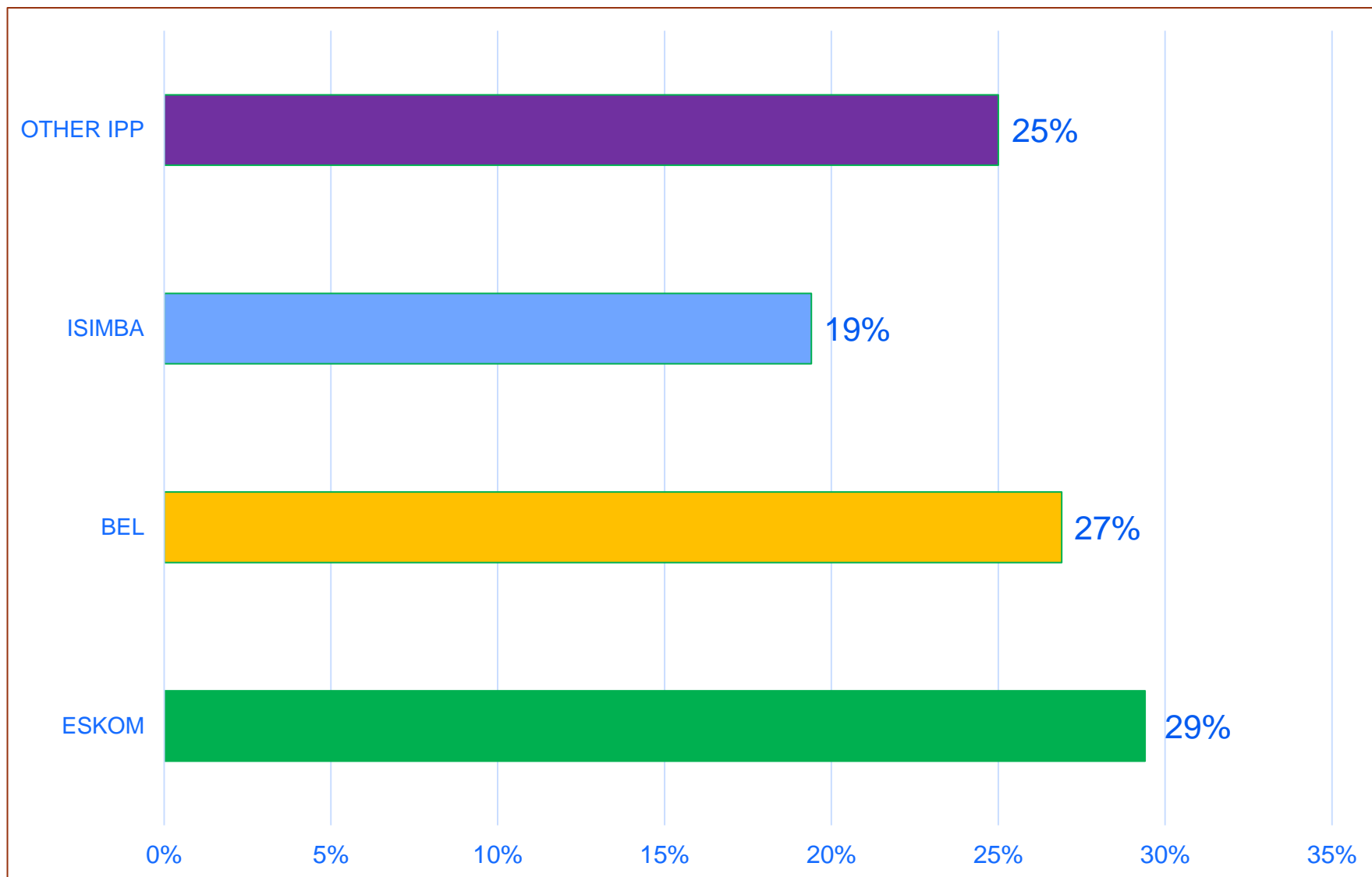
Parameters	2022 Projection	2023 Forecast	Comments
Hydrology (m ³ /s)	1,000	1,000	Maintained the current water permit allocation.
Energy generation (MW/hr)	176.9	176.9	Generation output of water flow of 1000m ³ /s.
Available capacity (MW/hr)	173.9	173.9	Average at water flow of 1000m ³ /s.
Tested capacity (MW)	319.00	378.00	Sustained for 3 hours using 5 and 7 units at KPS and NPS. For the forecast, assumption of 5 and 10 Units at KPS and NPS respectively
Water energy conversion factor (m ³ /kWh)	20.2	20.35	Lake level assumes to average 12.00m and above.
GOMC (USD million)	9.2	2.4	The decrease is due to the operations being for only three Months
Concession, Royalties & License fees	2.8	0.3	Pass throughs in line with ERA's approval

2023 Tariff application and prior year comparatives

Eskom has strived to maintain a generation tariff below 2 US c/kWh, helping to neutralize the generation mix.

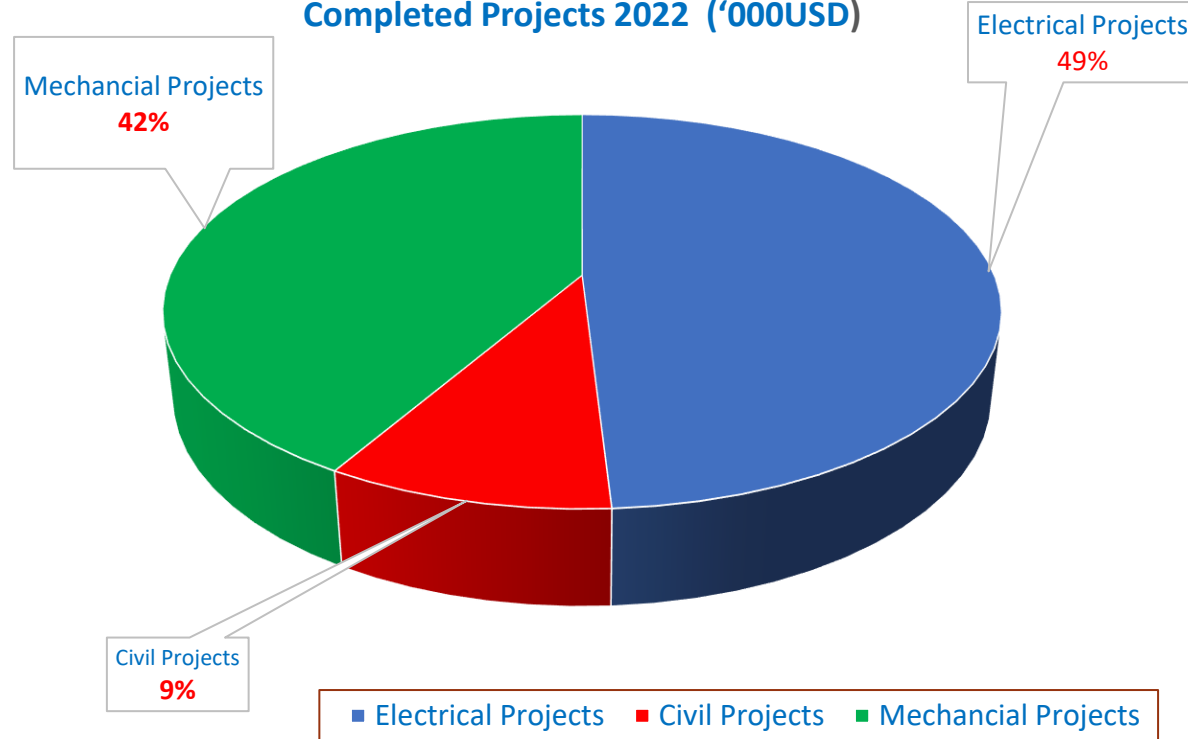
		Tariff	Power Produced MWH	Amount Invested
Performance 2021 and 2022 year	Eskom performance 2021	1.75 US c/kWh 63.06 Ugx /kWh (8% of DSP)	1,523 GWh 27% Total Uganda	USD 10.7 Million (UGX 40.73 Billion)
	Eskom performance 2022	1.31 US c/kWh 47.95 Ugx /kWh (5.8% of DSP)	1,523 GWh 29.8% Total Uganda	USD 6.89 Million (UGX 26.21 Billion)
	Projected performance 2023	2.098 c/kWh 74.24 Ugx /kWh (7% of DSP)	375.62 GWh 29.4% Total Uganda	USD 0.0 Million (UGX 0.0 Billion)

EUL Contribution to the Grid



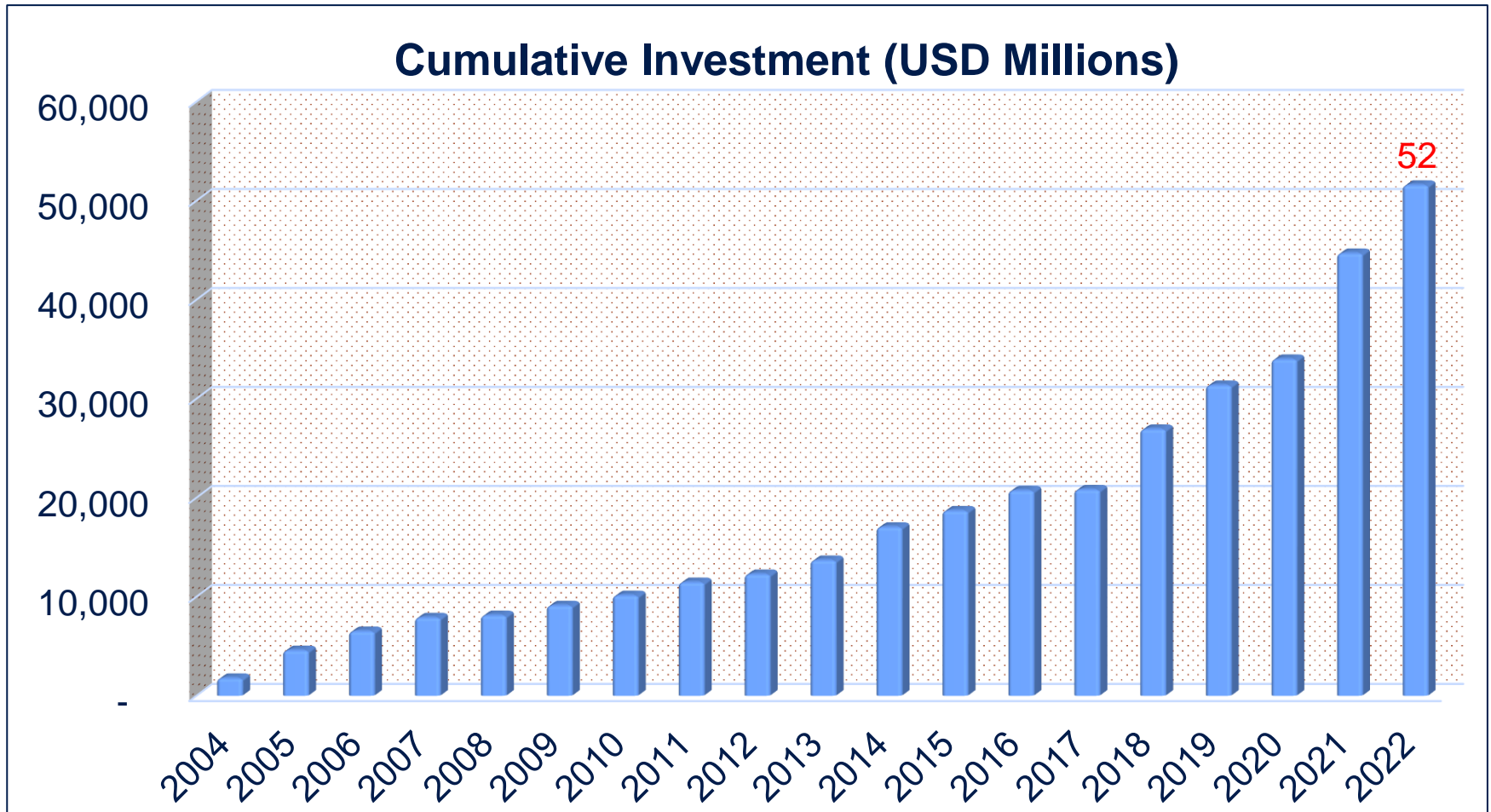
KEY INVESTMENT PROJECTS DONE IN 2022

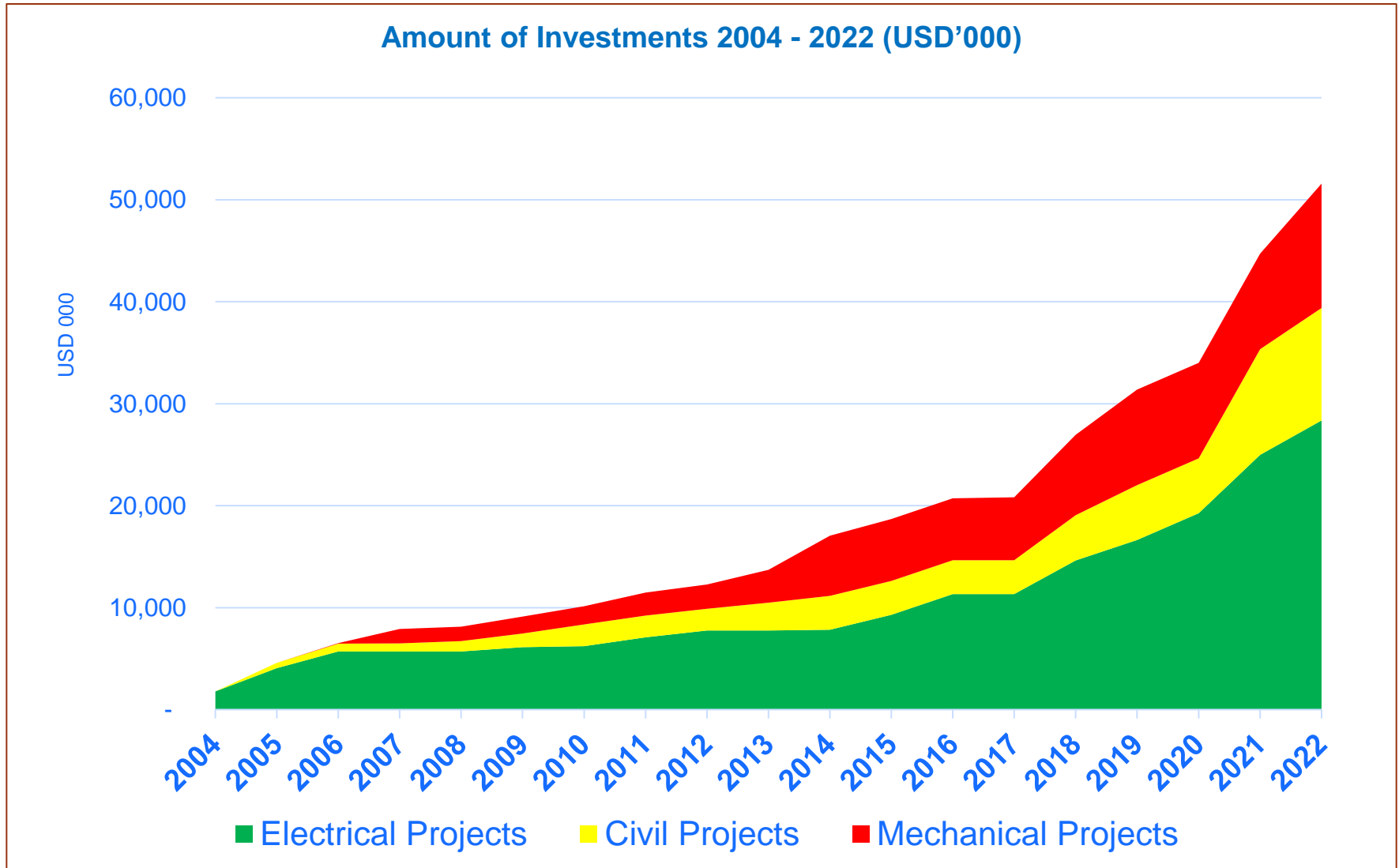
Completed Projects 2022 ('000USD)



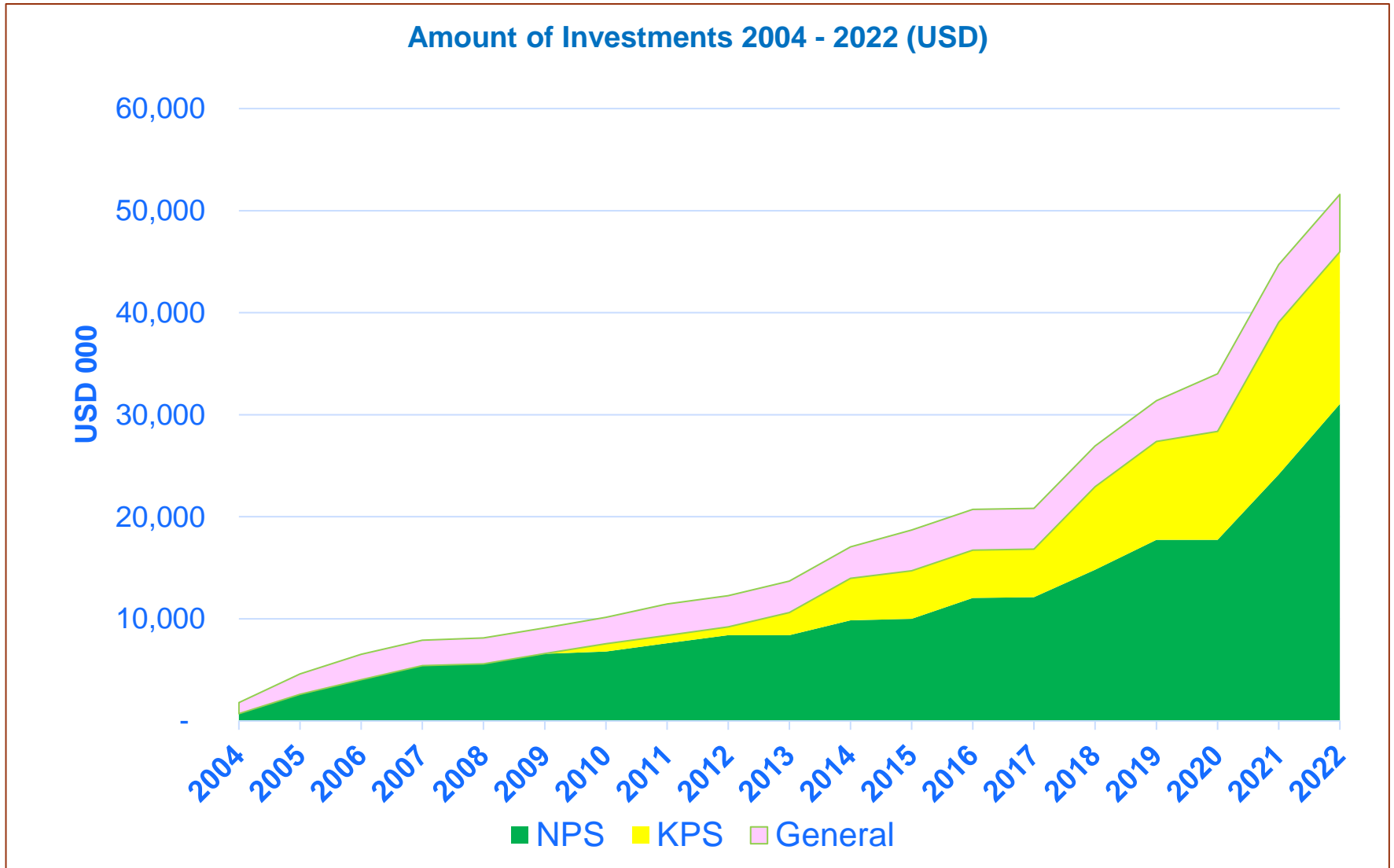
2022 Project Description	Amount ('000USD)
Electrical Projects	3,379.04
Civil Projects	643.19
Mechanical Projects	2,864.53
Total	6,886.77

Investments into the complex (Projected amounts-USD 52 Million)

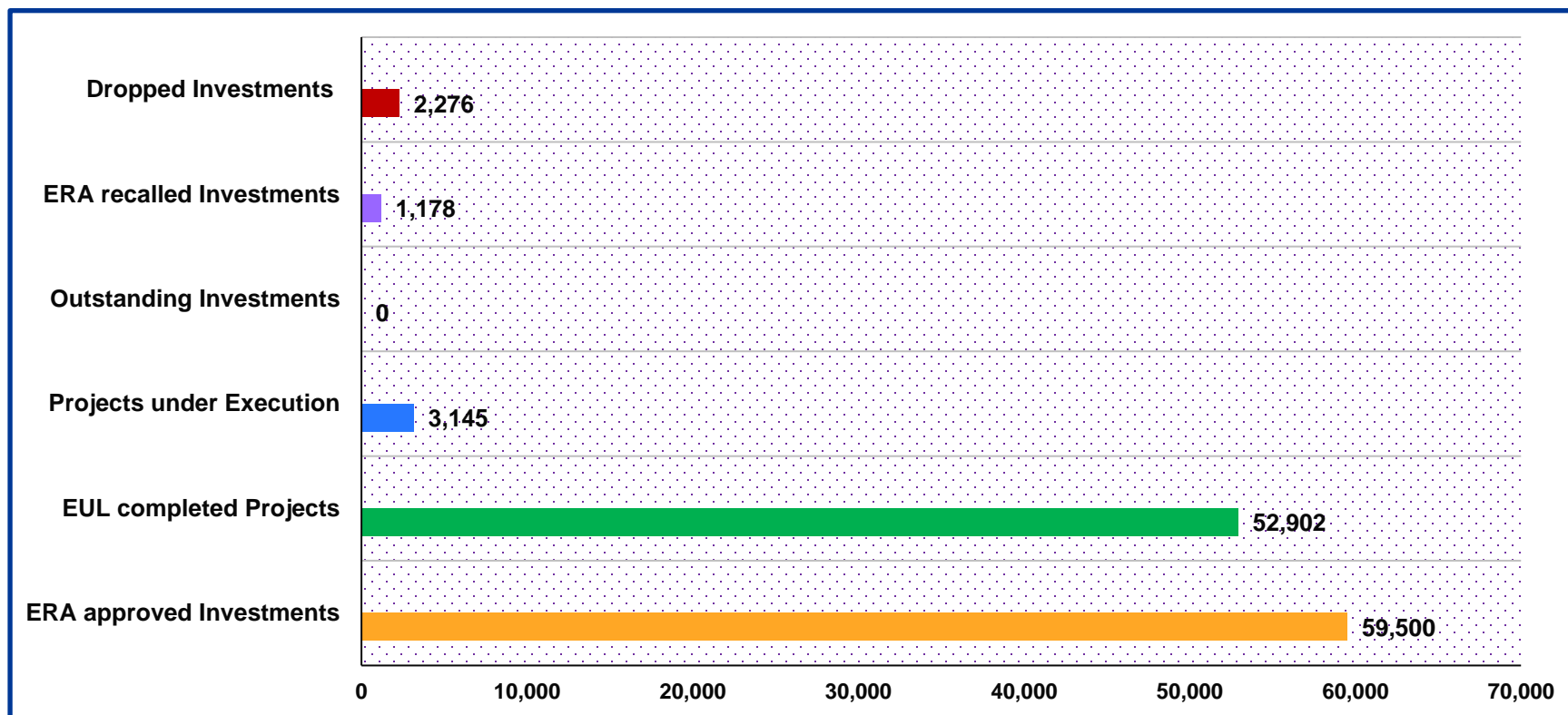




Distribution of the Investments (NPS & KPS)

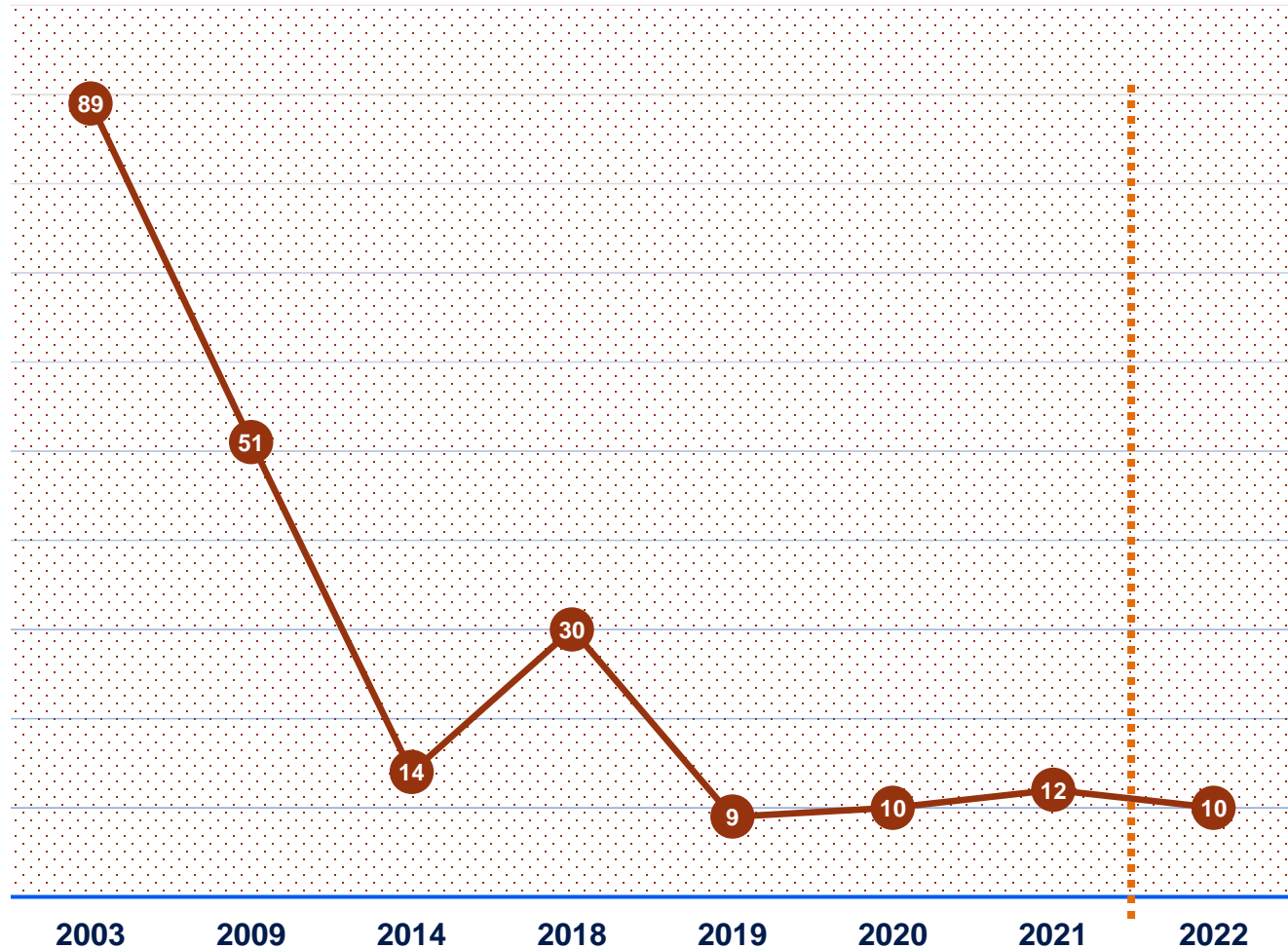


Investments Performance against Approved Target



	ERA approved Investments	EUL completed Projects	Projects under Execution	Outstanding Investments	ERA recalled Investments	Dropped Investments
%	100%	89%	5%	0%	2%	4%
Amount (USD 000)	59,500	52,902	3,145	-	1,178	2,276

Performance trends of the Number of major Plant defects



Key Drivers

- Maintenance programs underpinned by Prudent utility practices
- Investments started with R & R

Ongoing Flagship Project Updates-Unit 10 Blade Servo Refurbishment

New Exciter installed

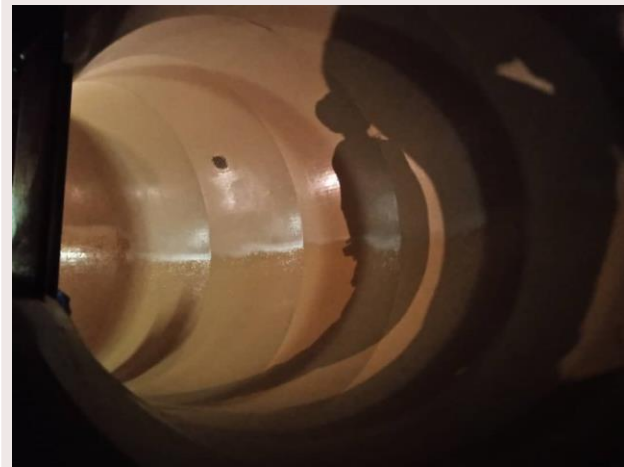


Hub with all blades assembled

Update on ongoing activities: Pictorials – Blasting of unit 10



Top cover before and after blasting and painting



spiral casing



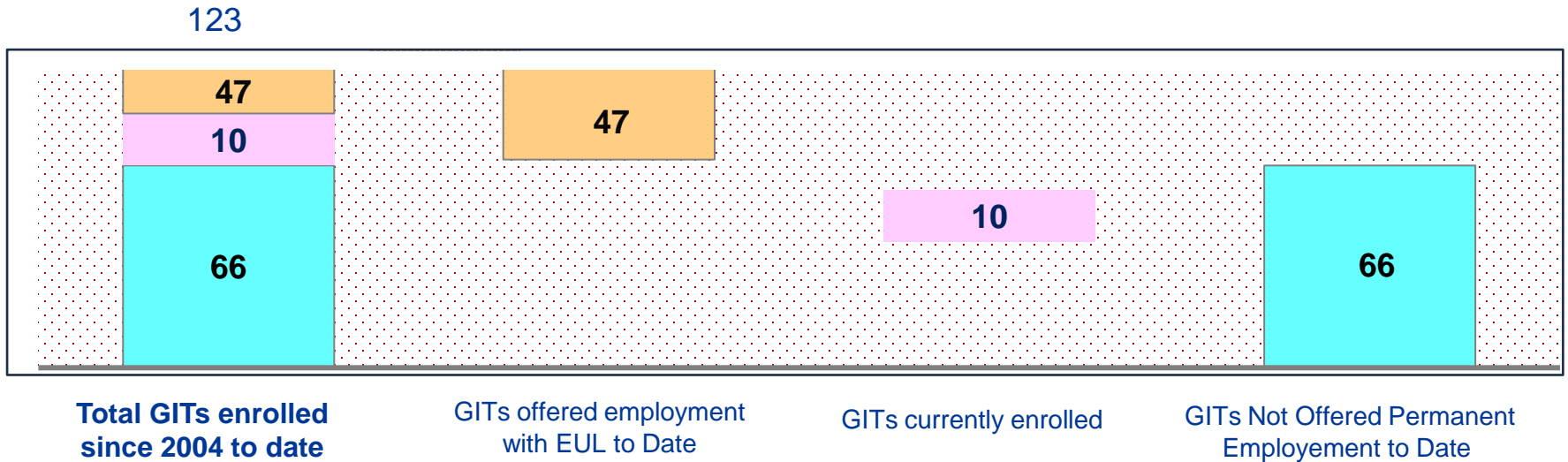
Paint thickness testing - draft tube



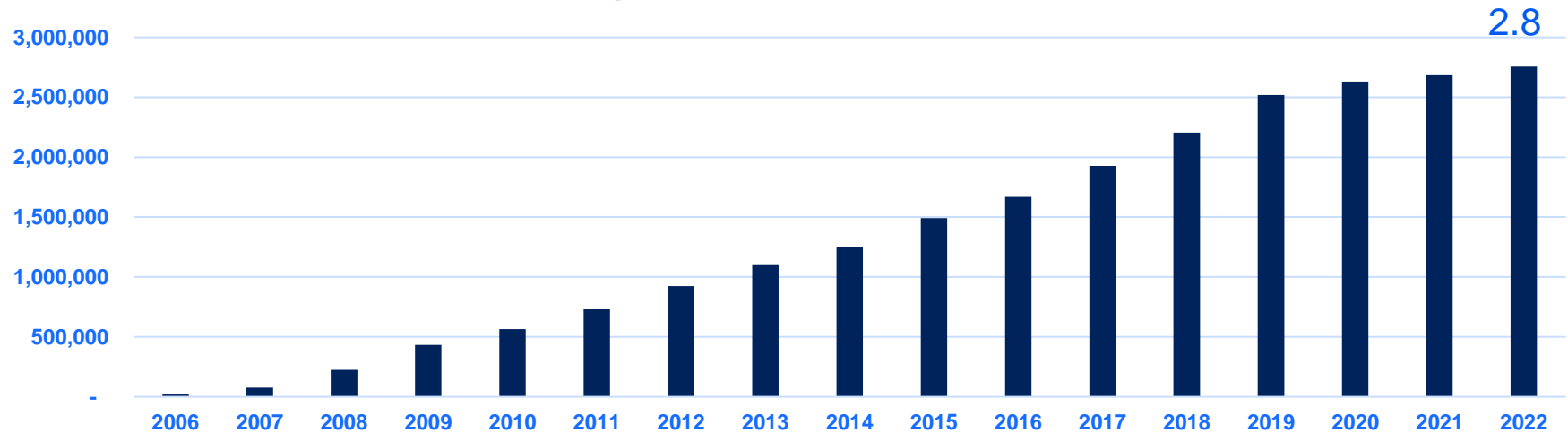
Bottom of the Thrust block

Graduates in training (#)

■ EUL GITs Appointed Permanent
 ■ EUL Current GITs
 ■ No longer with EUL



Training investments (USD, Thousand)



Key benefits of the investments to the plant

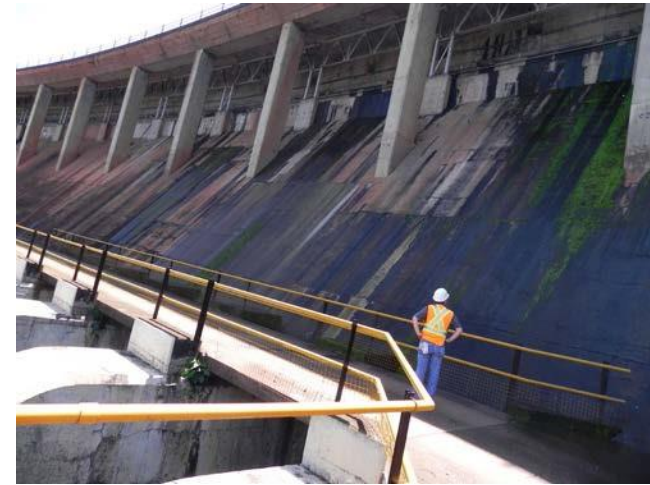
1. Minimise plant failures to secure a continued plant availability above **94%** with tariff levels below **US\$2 cents/Unit**
2. Improved reliability and long-term plant health to ensure improvement in power quality and supply
3. Continued skills development for the sector with the latest technology integrated into the old plants.
4. Enhance safety of personnell and equipment registering **11 years** as at end of 31st Oct 22 with zero LTI



Assessment of Current Condition – Nalubaale PS

- Main dam is in good condition. Cracks on downstream face are grouted/sealed
- Most seepage on downstream face are stopped due to grouting in 2021
- Flow in drainage gallery was reduced from ~600 liters/min to ~150 liters/min

2019



2022



Remaining useful life:

- NPS Dam ~ 60 years (34 years in baseline report)
- NPS Powerhouse Civil ~ 30 years (4 years in baseline report)
- NPS major equipment ~ 10 - 40 years (no remaining life in baseline report)

- KPS Dam ~ 86 years

- KPS Powerhouse civil ~ 60 years

- KPS major equipment ~ 30 - 60 years

Thank You Uganda

