



ESTABLISHMENT OF REVENUE PROTECTION UNIT IN BPC

Sustainability
Through **Efficiency**



Team Player



Ethical Conduct



Passion for Excellence



People First



Zero harm

PRESENTATION CONTENT



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OBJECTIVE OF THE PRESENTATION



- BPC - Overview of the establishment of a new Revenue Protection (RP) Unit including the sourcing of the correct manpower and resources as well as training of the personnel and the establishment of policies, processes & procedures.



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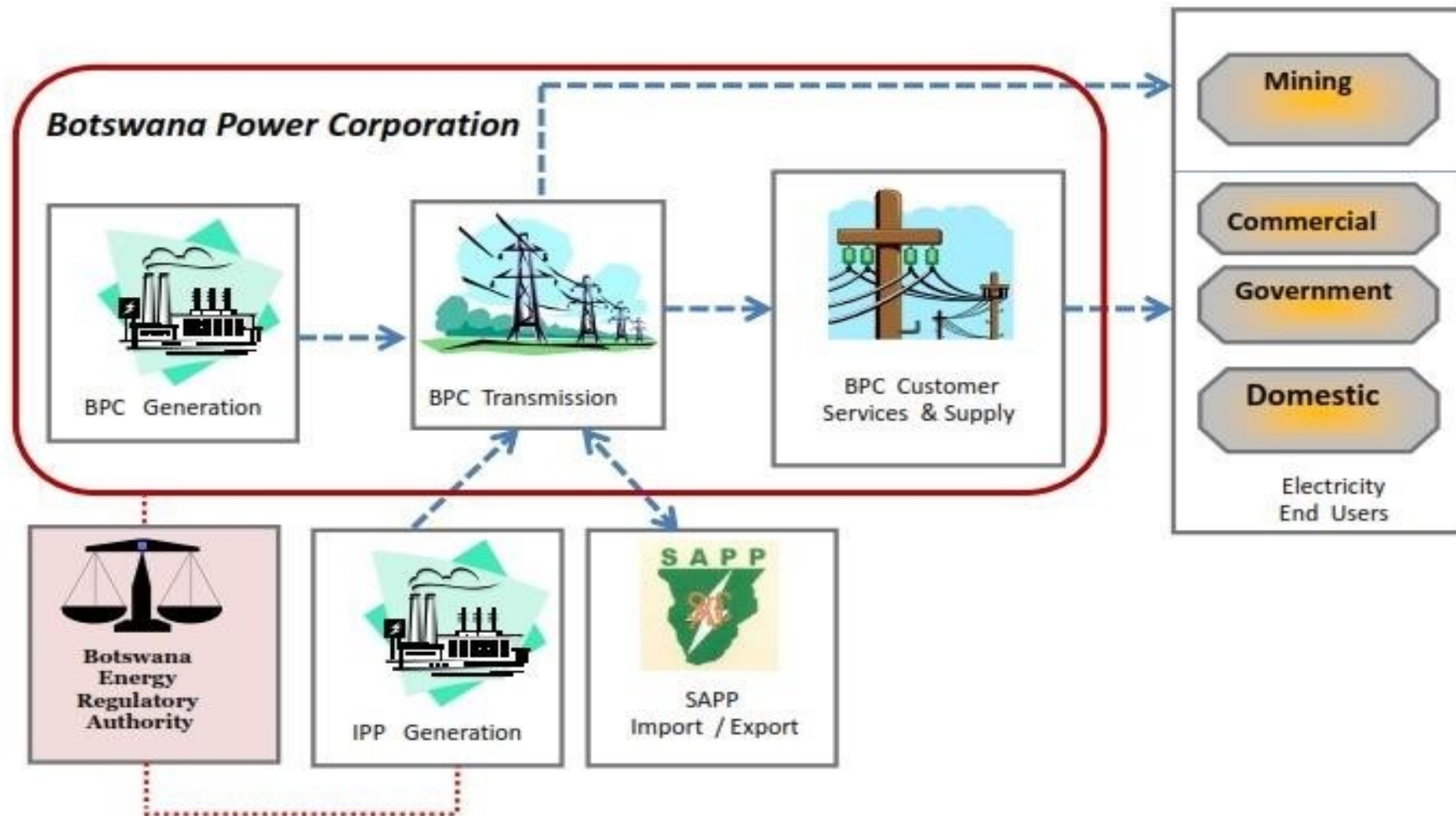
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THE BOTSWANA ELECTRICITY SUPPLY INDUSTRY OVERVIEW



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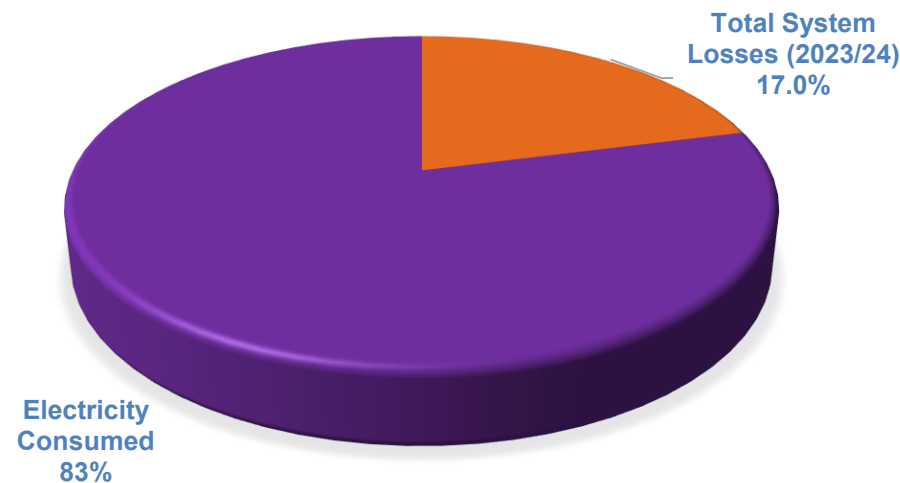
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SYSTEM LOSS LEVEL

Balancing & Accounting

System Loss level below may be perceived insignificant with comparison to the regional Utilities BUT considering the small infrastructure with an installation base of about 600,000 consumers and a Peak Demand not exceeding 815MW it is very significant, and the impact is felt.

BPC System Loss Level (2023/4 FY)



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NATURE AND EXTENT OF REVENUE LEAKAGES in BPC ESI

❑ ESI – BPC

Revenue leakages are incurred along the entire value chain right from Generation, through energy dispatch methodologies into Transmission & Distribution networks and up to even the Commercial processes.

❑ Revenue leakages - various forms;

- Technical and non-technical losses (*Core Business*)
- Financial leakages in both the core & support business functions



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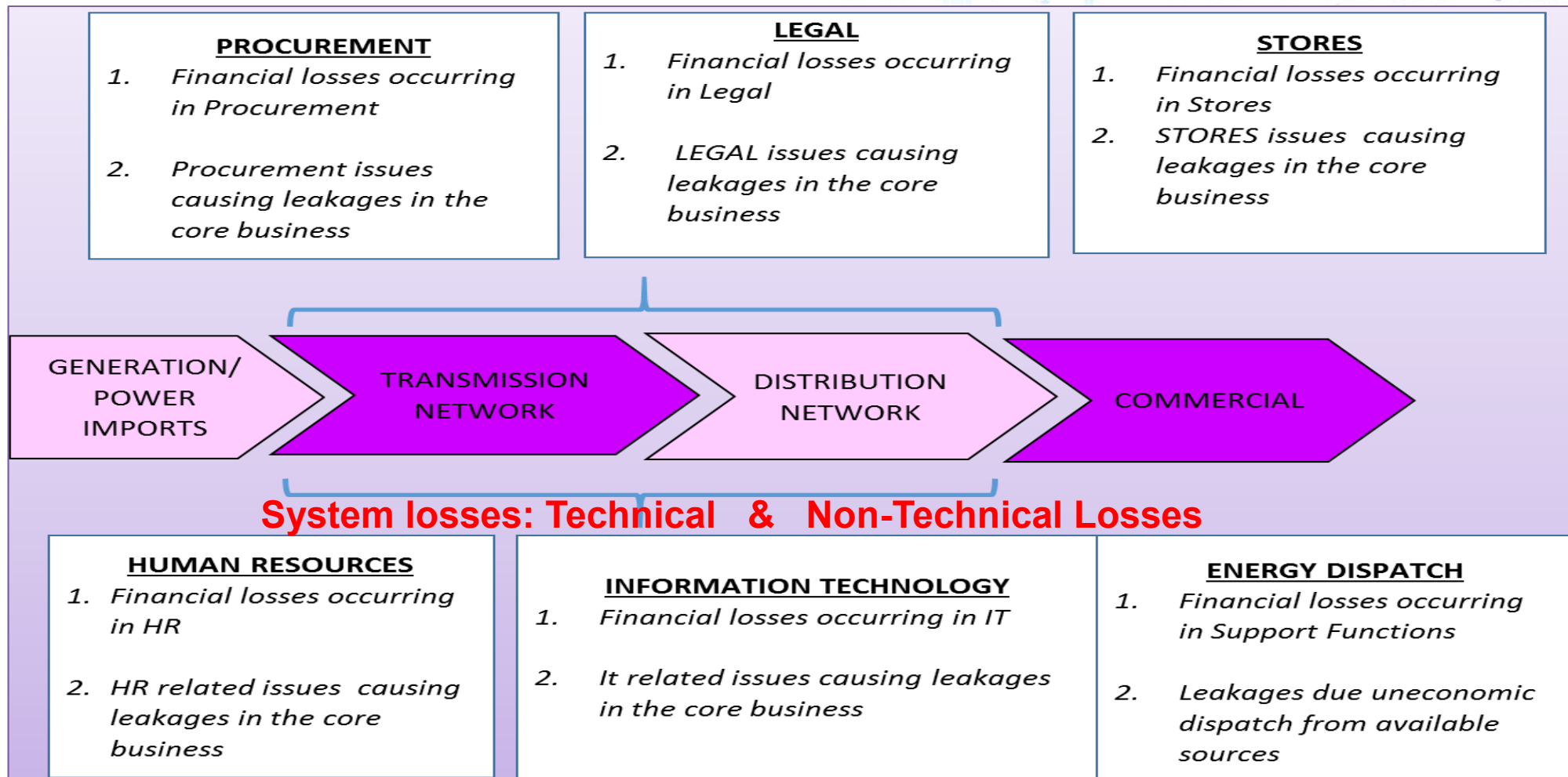


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NATURE AND EXTENT OF REVENUE LEAKAGES IN BPC ESI Cont...



Revenue Assurance is a cross-cutting function, across all function areas and it's vital that we are aware of potential revenue leakage points in our function areas.



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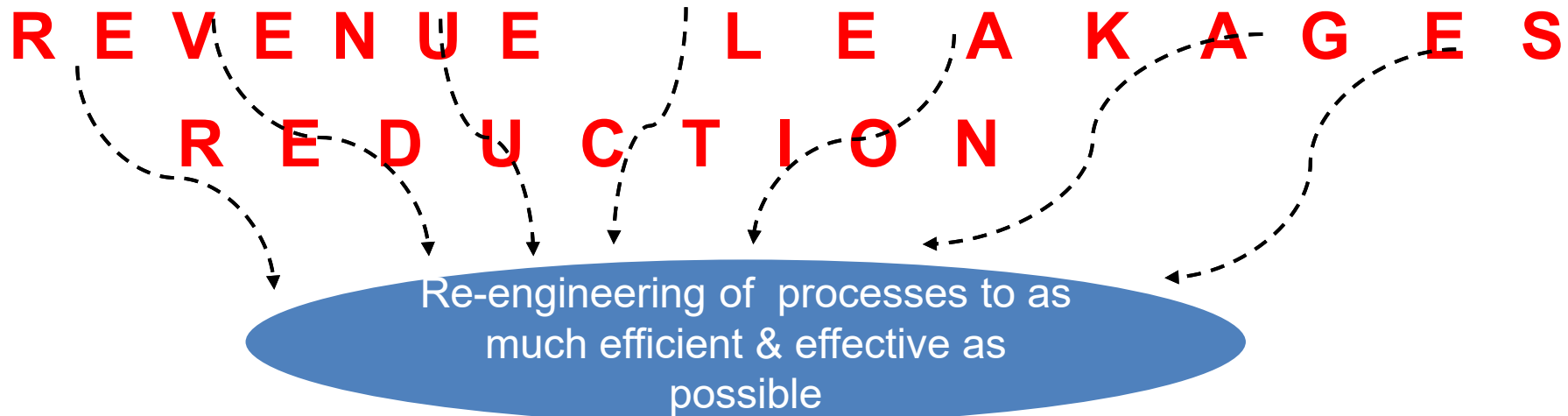
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MANAGING FINANCIAL REVENUE LEAKAGES IN VARIOUS FUNCTIONS

These financial revenue leakages are low hanging, mainly administrative (processes and procedures) and don't require much investment to plug.



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CAUSES OF REVENUE LOSS WITHIN BPC

- ☐ Lack of robust policies, processes & procedures to curb revenue leakages.
- ☐ Use of electromechanical meters on some of the LPU's exposing BPC to the risk of NTL due to several technical deficiencies of this type of meter.
- ☐ Metering designs which increase error margins i.e summation CTs & other external summators such as FAF.
- ☐ Human error/skills gaps during installations
- ☐ Defective/obsolete metering equipment



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CAUSES OF REVENUE LOSS WITHIN BPC

- ❑ Wrong categorisation of customers (Tariff)
- ❑ KW Tariff
- ❑ Outright theft - bypassed meters, bridged prepayment meters, illegal connections to the distribution system.



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RP INITIATIVES EMBARKED ON



- ☐ Establishment of the Revenue Protection Unit
- ☐ Review of policies and procedures
- ☐ Enforcing adherence to maintenance schedules and periodic audits
- ☐ Automation of metering for Large Power Users
- ☐ Replacement of obsolete meters
- ☐ Installation of split smart meters in clustered areas to minimise access
- ☐ Seal management program
- ☐ Resourcing the metering and RP unit (interim)
- ☐ Capacity building -Training



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ACHIEVEMENTS

- ☐ SARPA conducted an audit and informed the Corporation on viable decisions
- ☐ Manpower resourcing (RP Unit) – RP engineer, metering audit teams, service electricians countrywide supporting the audit function
- ☐ Maintenance schedules in place & adhered to
- ☐ Energy Balancing & Accounting framework complete, the analyses are being done
- ☐ All staff handling metering & RP functions have been trained (although more enhancement still needed)
- ☐ SARPA has conducted training on revenue protection basics for service electricians & further conducted advanced training for Supervisors.
- ☐ Accreditation of the metering course aimed at certifying all the teams
- ☐ Seal management framework finalised and sealing of meters has commenced.
- ☐ Revenue recovered over the past 2 years (P158M)
- ☐ The AMR project for large power users
- ☐ Replacement of obsolete meters with smart meters



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CHALLENGES

- ❑ The RP unit is more of an interim solution, still not as effective & efficient as required. (fully fleshed department required)
- ❑ The audit teams not yet trained to the required competency levels hence limited
- ❑ Metering system still operated manually hence susceptible to errors



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FUTURE PLANS



❑ Advanced Metering Infrastructure Solution

❑ Continuous training on Revenue Protection



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BOTSWANA POWER CORPORATION

Thank You

CONTACT US:

24-hour Toll-Free Numbers: **0800 600 147** or **16266**

WhatsApp: **76606414** | USSD: ***192#**

Tip-OFF Line: **15125**

www.bpc.bw



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