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India SMART UTILITY Week 2024

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समन्वय जघने
MINISTRY OF POWER
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समन्वय जघने
MINISTRY OF POWER
GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY

Session : Brazil: Smart Energy Workshop

T&D Loss and Change Management in TPDDL

Presented By

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@indiasmartgridforum

Parameter	Unit	July 2002	March 2023
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OPERATIONAL PERFORMANCE

AT&C Losses	%	53.1	6.34
System Reliability – ASAI -Availability Index	%	70	99.9
Transformer Failure Rate	%	11	0.68
Peak Load served	MW	930	2229 (as on 28 June 2022)
Length of Network	Ckt. km	6750	13790
Street Light Functionality	%	40	99.17
Smart Meters Installed	Lakh	0	3.5

CONSUMER RELATED PERFORMANCE

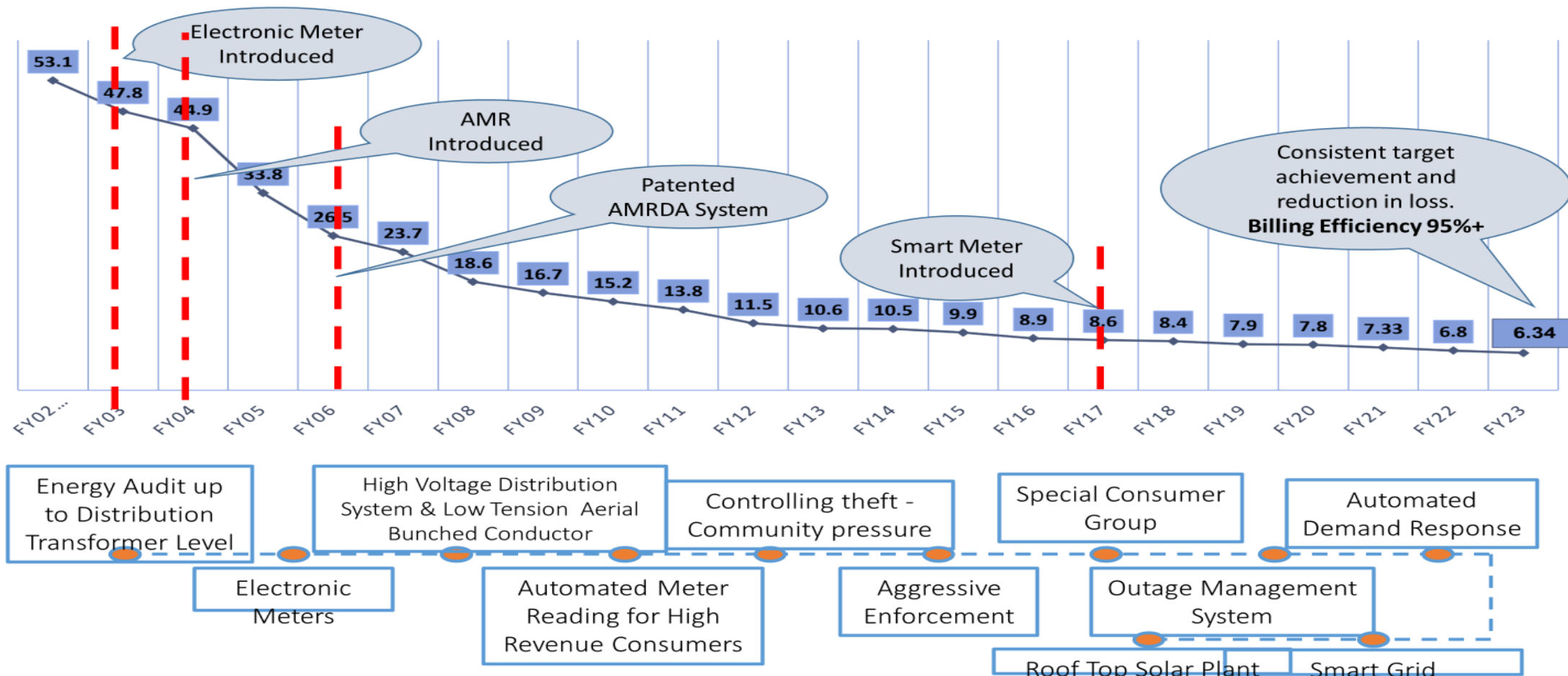
New Connection Energisation Time	Days	51.8	3
Meter Replacement Time	Days	25	3
Mean Time to Repair Faults	Hours	11	0.67
Consumer Satisfaction Index	%	-	97



'Roshni' – our Brand Mascot

TATA POWER – DDL IS CERTIFIED WITH					
ISO 9001:2015	ISO 14001:2015	OHSAS 18001:2015	ISO 27001:2005	SA 8000 : 2008	EMS 50001:2018

AT&C Loss reduction: Turnaround Story

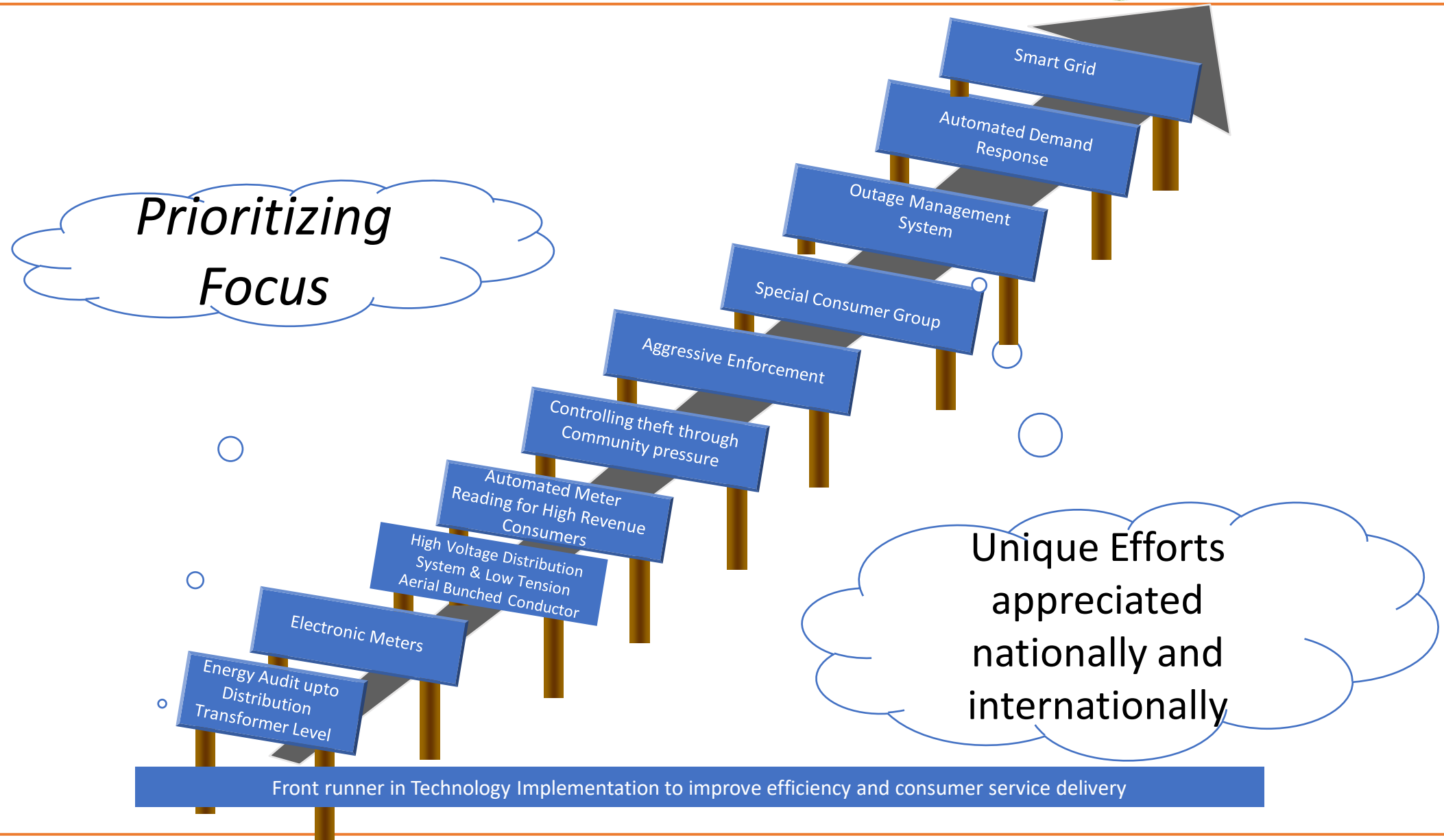


Initiatives: AT&C Loss Reduction



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Consumer Engagement at the lowest level

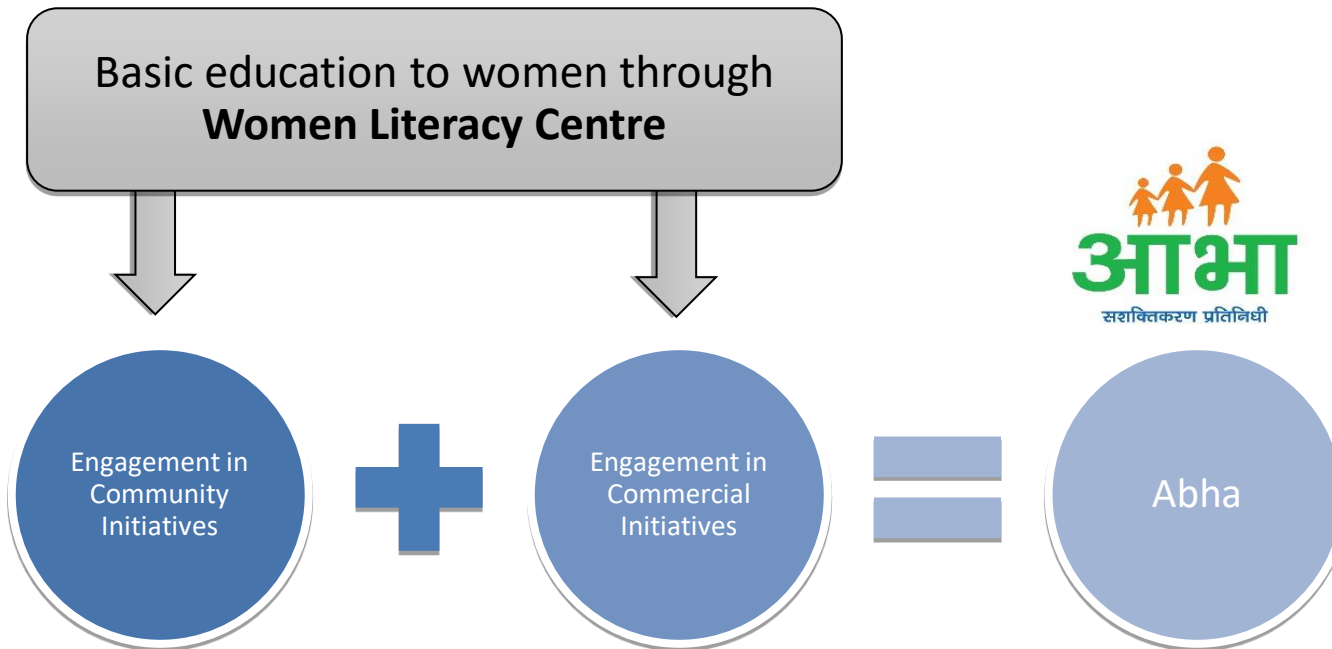


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Evolution of Abha Model – A sustainable social innovation

- **Unique Women Empowerment Consumer Centric Initiative** - *To engage & train women from slums*
- Each **Abha** assigned with a dedicated set of **250 - 300 customers**
- **25-30 Abha's** aligned with **Abha Leaders**.
- Operated under **3 NGOs**.
- Engagement in commercial activities such as – Bill distribution, Recovery, Complaints, Safety , Theft



Slum Women

Consistent and Regular Training
and Feedback



Emerging Leader

Capacity Building, Training and Orientation

Capability Building



Workshop on Smart Metering & AMI



Session by OEM on Metering Technology



SOP for online DT Meter Replacement

BA Training

Location wise Behavioural training sessions



Safety



HOTT - Practical exposure of working on live DT meter



Safety Behavioural Training for BA



JSA cum safety bag

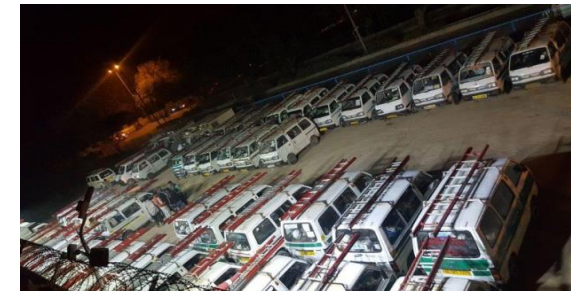
Infrastructure Development



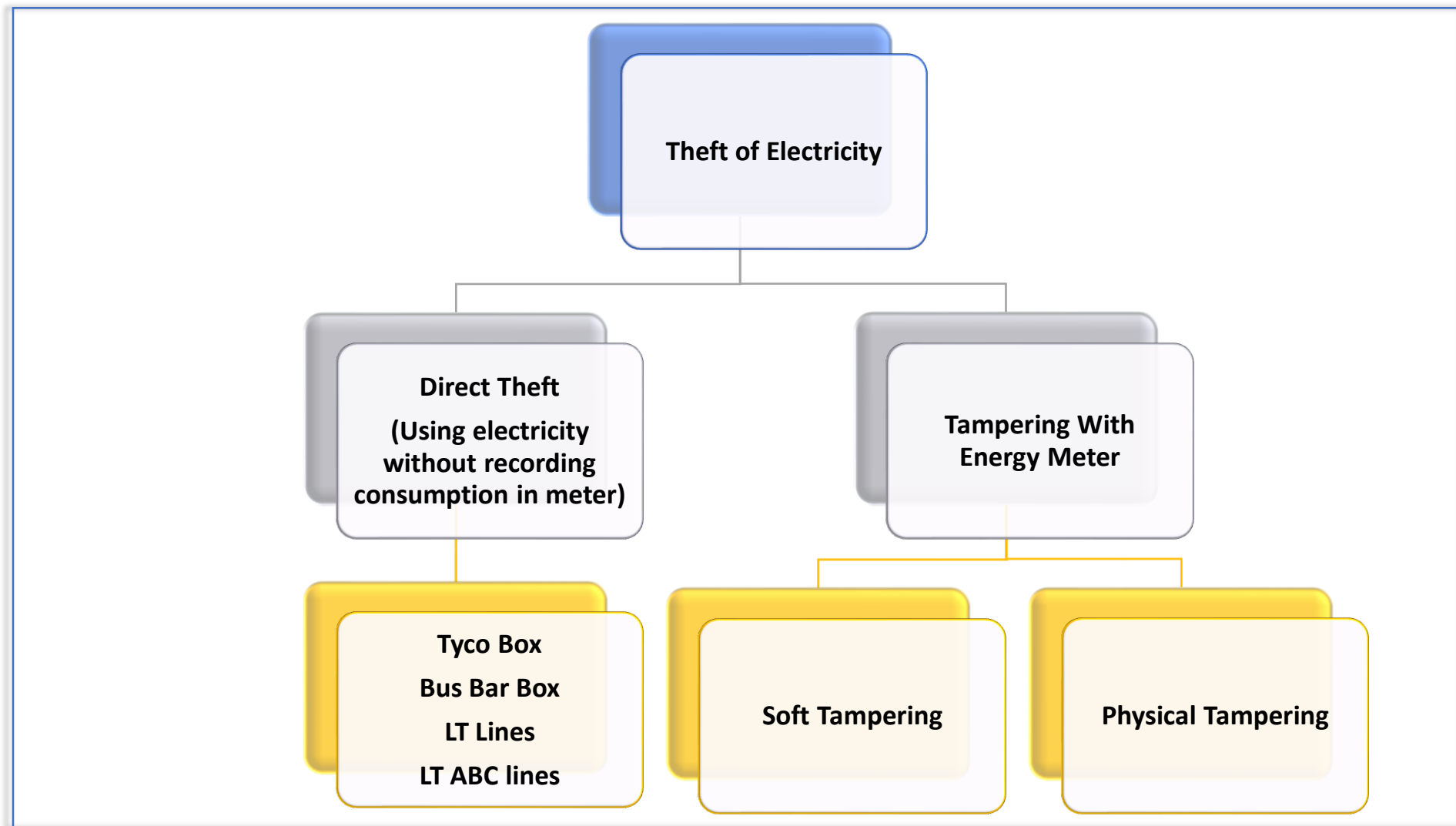
Practice Yard at all MMG Location



In-house Test Bench - 02 Nos-15 position Single Phase & One 15 position Poly phase



Decentralised functioning - Formulation of 4 MMG hubs

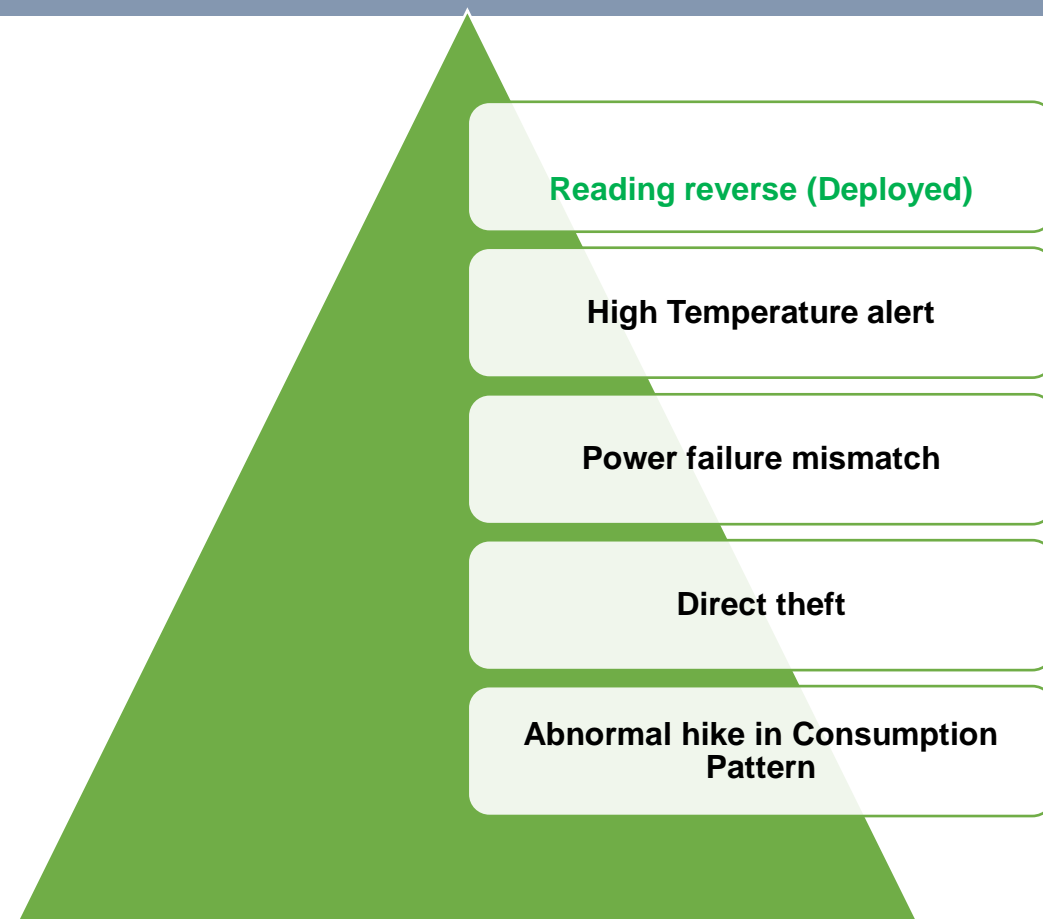


Revenue Protection System (RvPE) - Logics

Logics replicated in RvPE from AMRDA

Sr no	Logic Name
1	Assessed Consumption for Industrial and Commercial Connections
2	Assessed Consumption for Domestic Connections
3	Voltage Failure
4	Power Failure
5	CT overload
6	Data Corruption
7	Low Power factor
8	Potential missing with Load Running
9	Current Missing
10	Neutral Disturbance
11	Current Reversal (To be Modified)
12	Magnet
13	Cover Open
14	Direct theft logic through neutral current
15	High Voltage
16	Current imbalance
17	Misuse
18	Drop in consumption with constant MDI

New Logics incorporated in RvPE: Delta over AMRDA



THANK YOU

*For discussions/suggestions/queries email: **isuw@isuw.in***

visit: www.isuw.in

Links/References (If any)