

Zero-Touch Energy Audit

Building a “Site-Visit Free” Energy Audit System using GIS

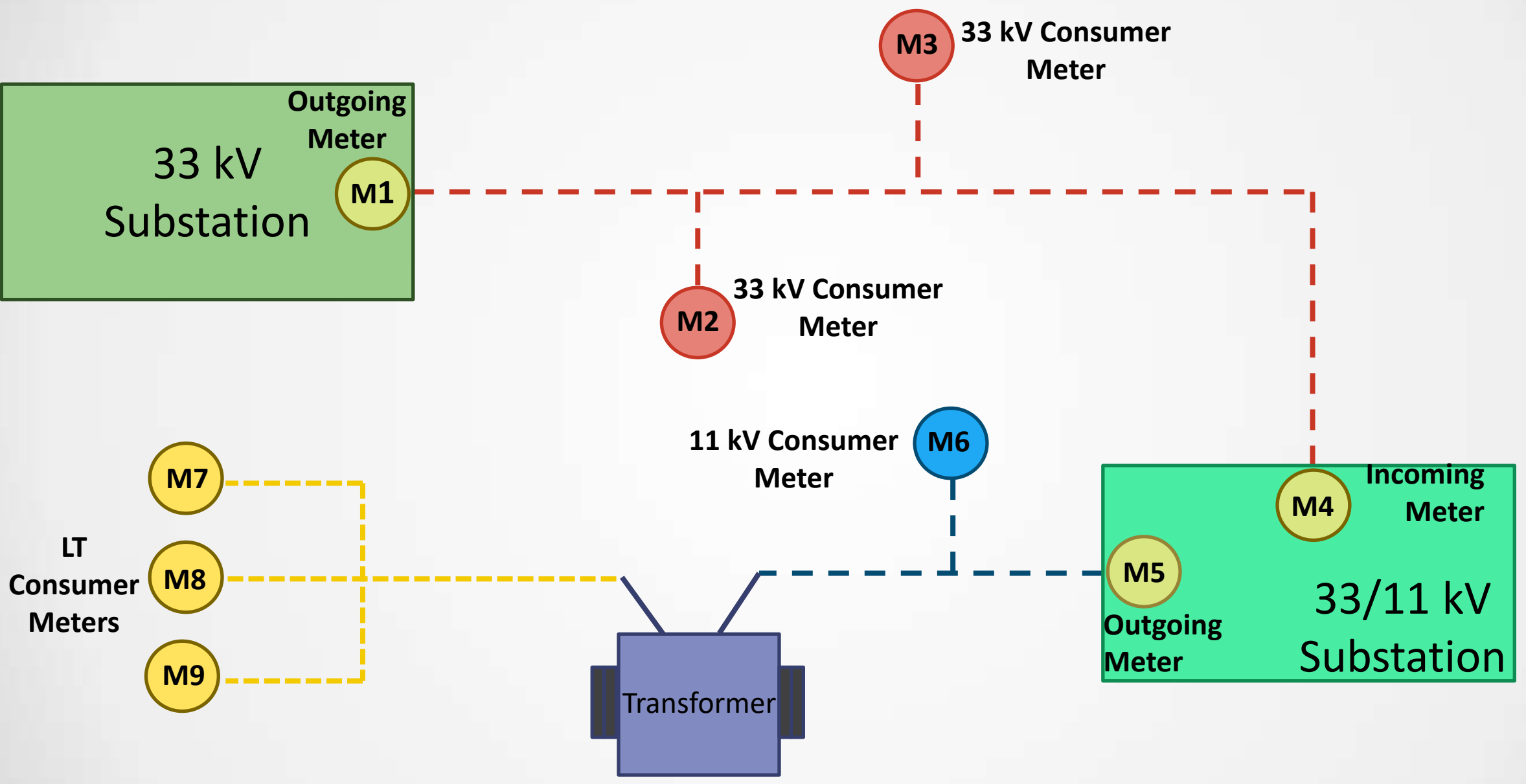
Swami

Senior Consultant @ Red Planet Consulting

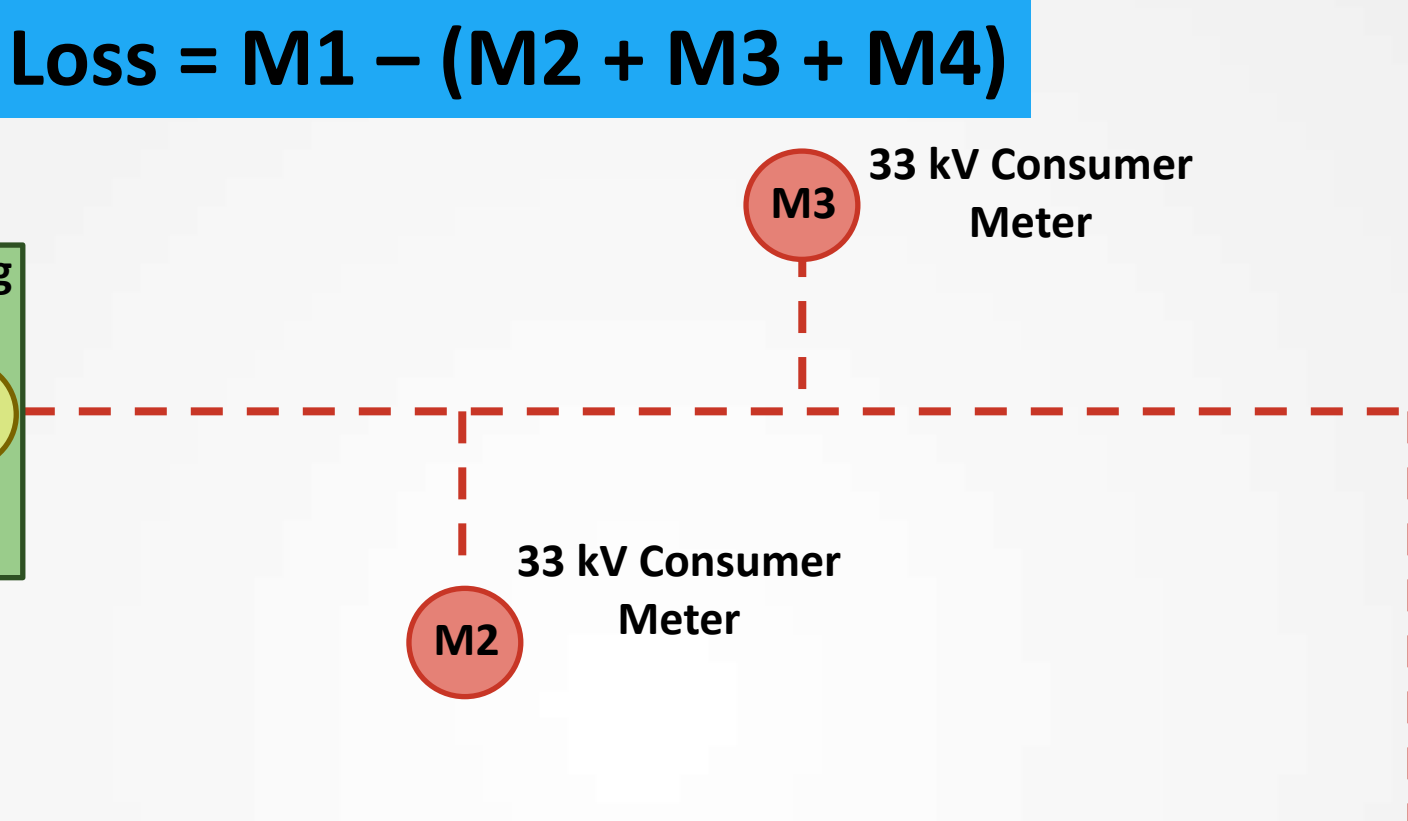
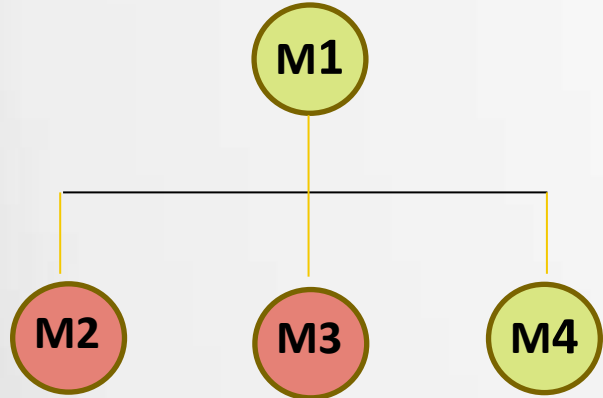
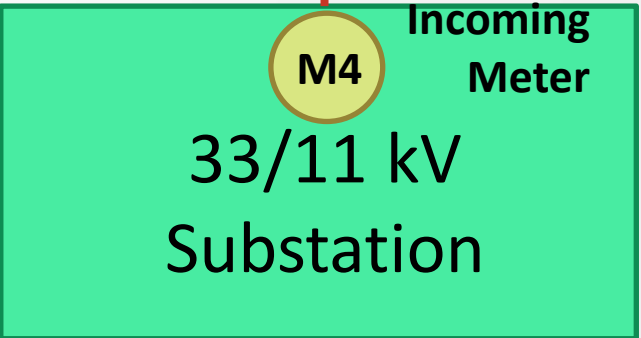
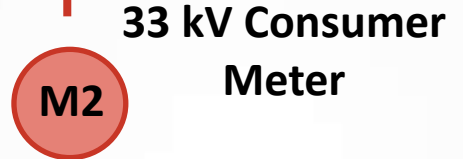
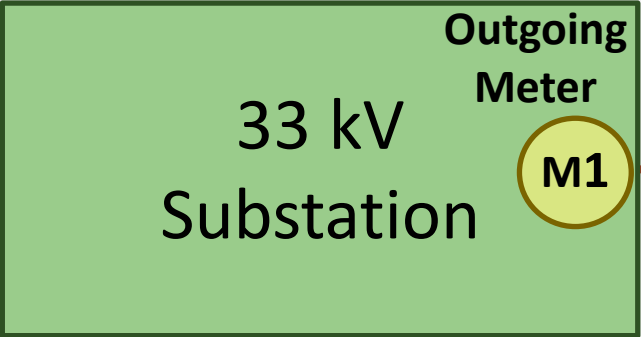
swami@redplanetconsulting.com

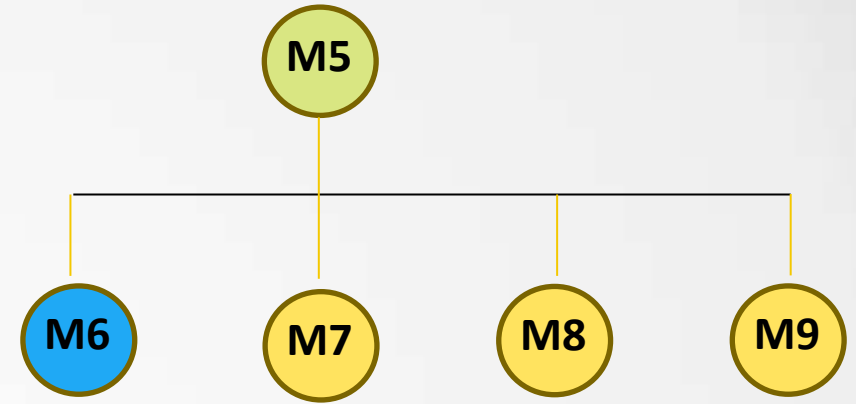
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What is Energy Audit?

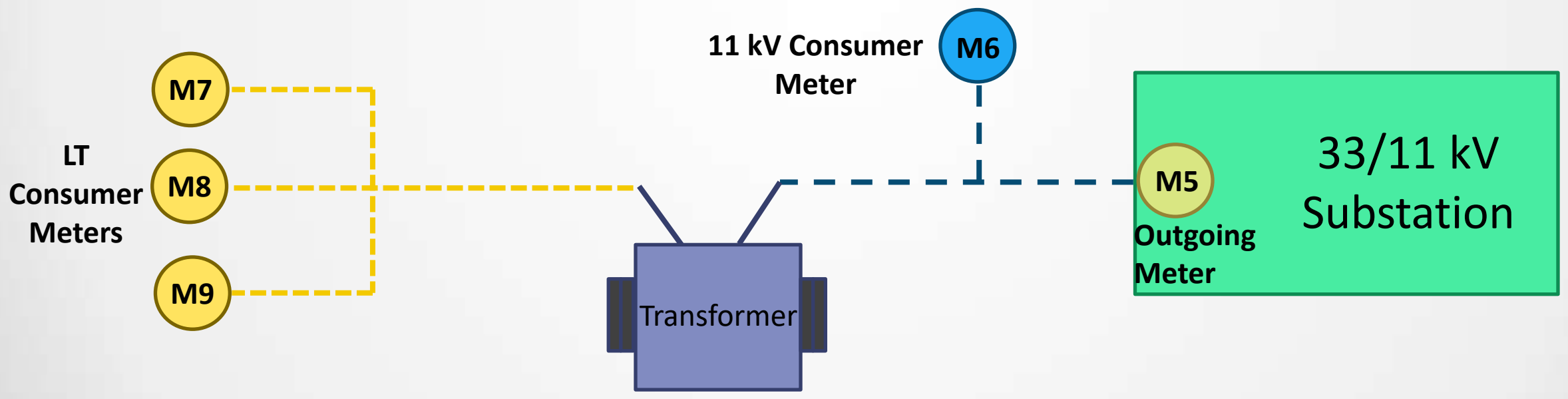


$$\text{Loss} = M1 - (M2 + M3 + M4)$$

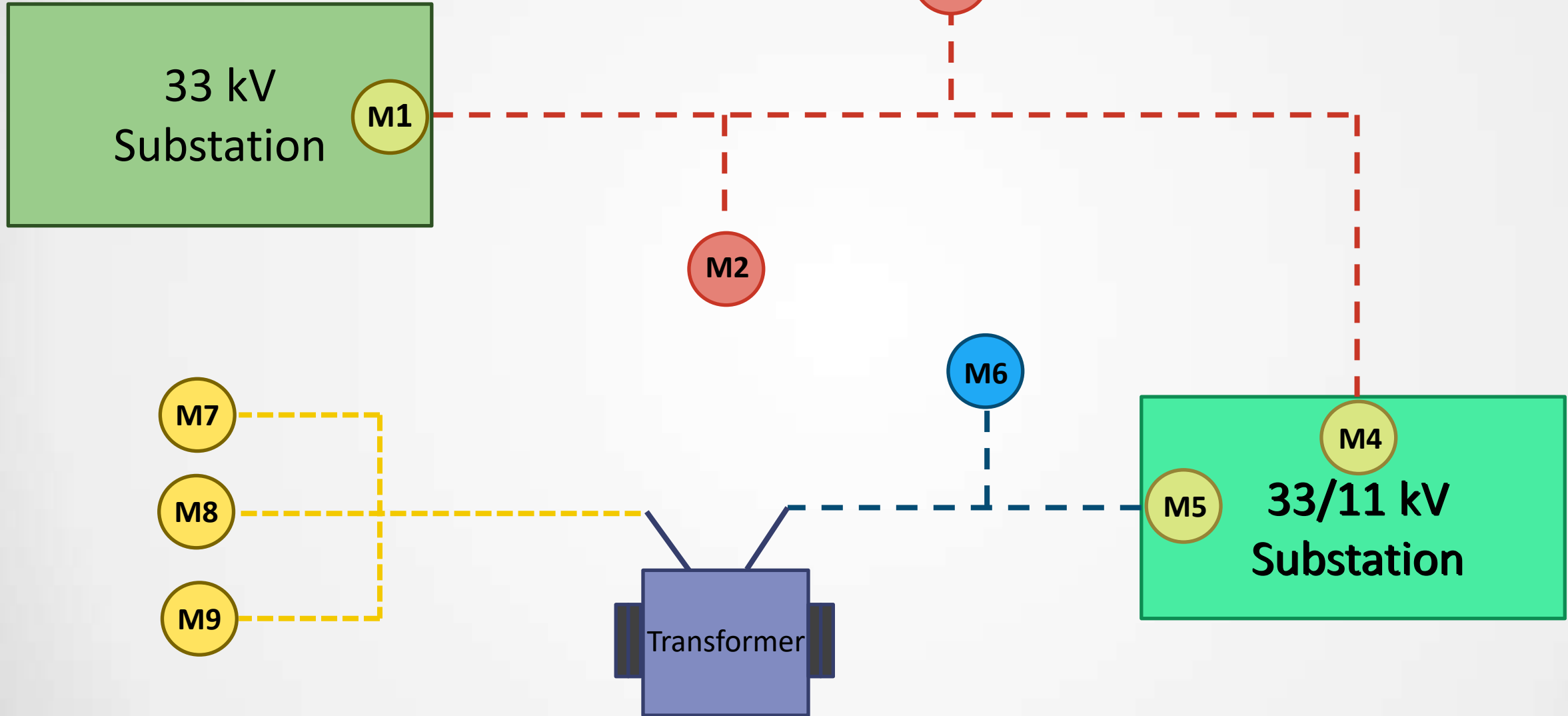




$$\text{Loss} = M5 - (M6 + M7 + M8 + M9)$$



$$\text{Loss} = M1 - (M2 + M3 + M4)$$



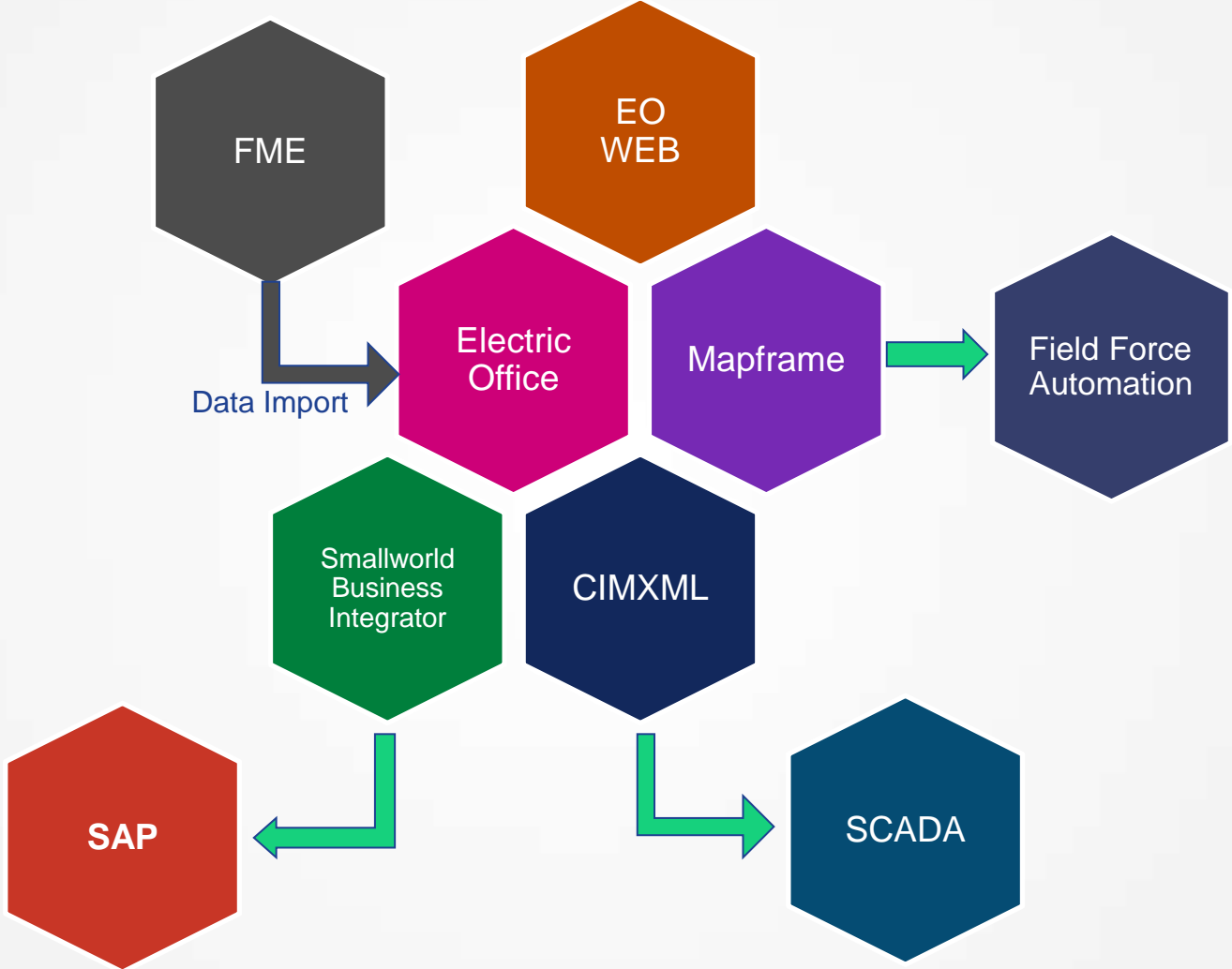
$$\text{Loss} = M5 - (M6 + M7 + M8 + M9)$$

GIS @ NPCL

Project Objectives

- Resurrection of Existing GIS System.
- Make GIS integrall part of Business Process by integrating it with SAP.
- Integration of Planned Scada OMS/DMS with GIS
- Provide GIS Access across the organization (Web Application)
- Field Force Automation for Field Crews.

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Evolution of Energy Audit

“

Make Data your Highest Goal & Build your Applications around it.

”

Stage I : Field Survey QC

Team MMI

Stage II : Back-office QC

Stage III : Pre-Import QC

Team RPC

Stage IV : Post-Import QC

Stage V : Connectivity QC

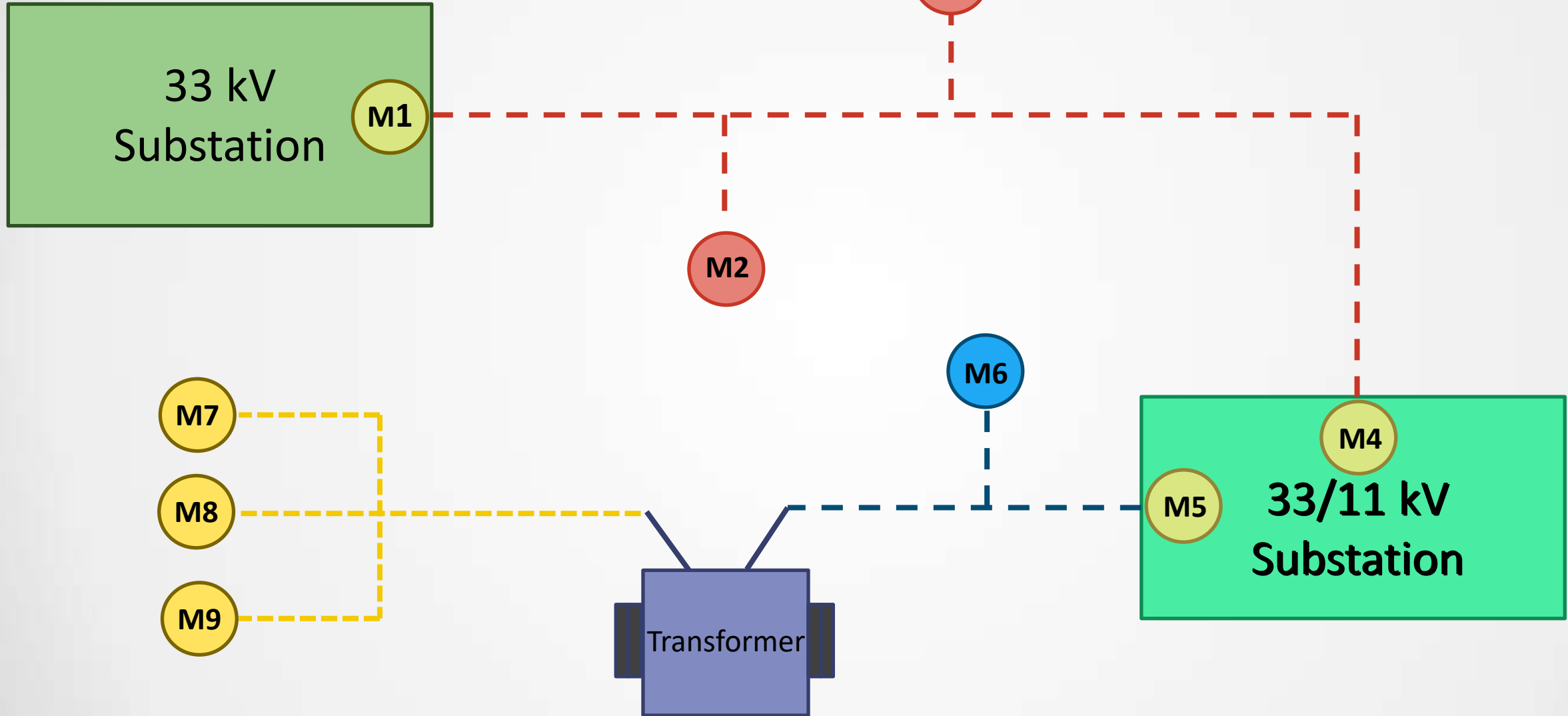
Team NPCL

Stage VI : Field Verification
QC

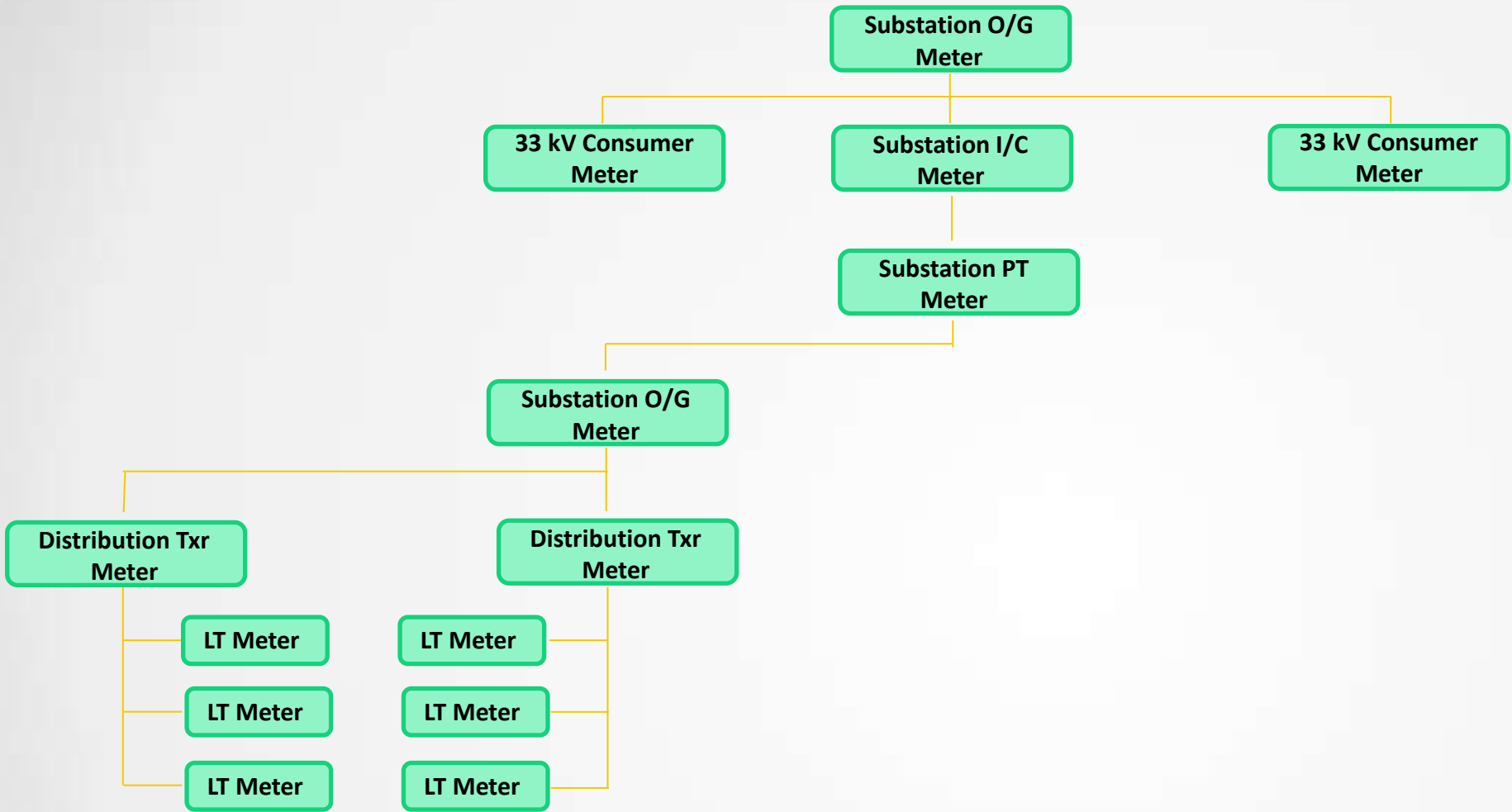
Stage VII : Quality Routines

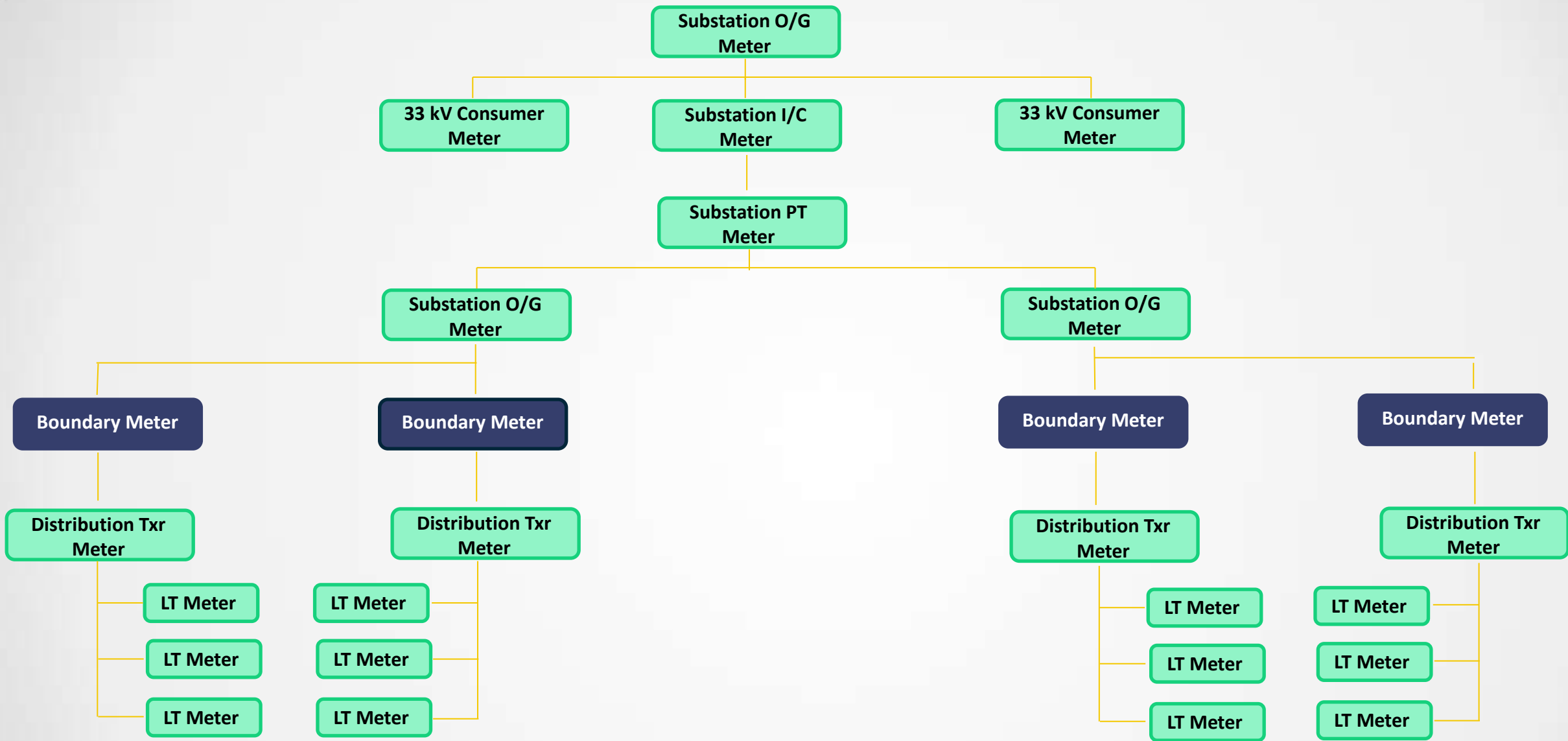
System Driven

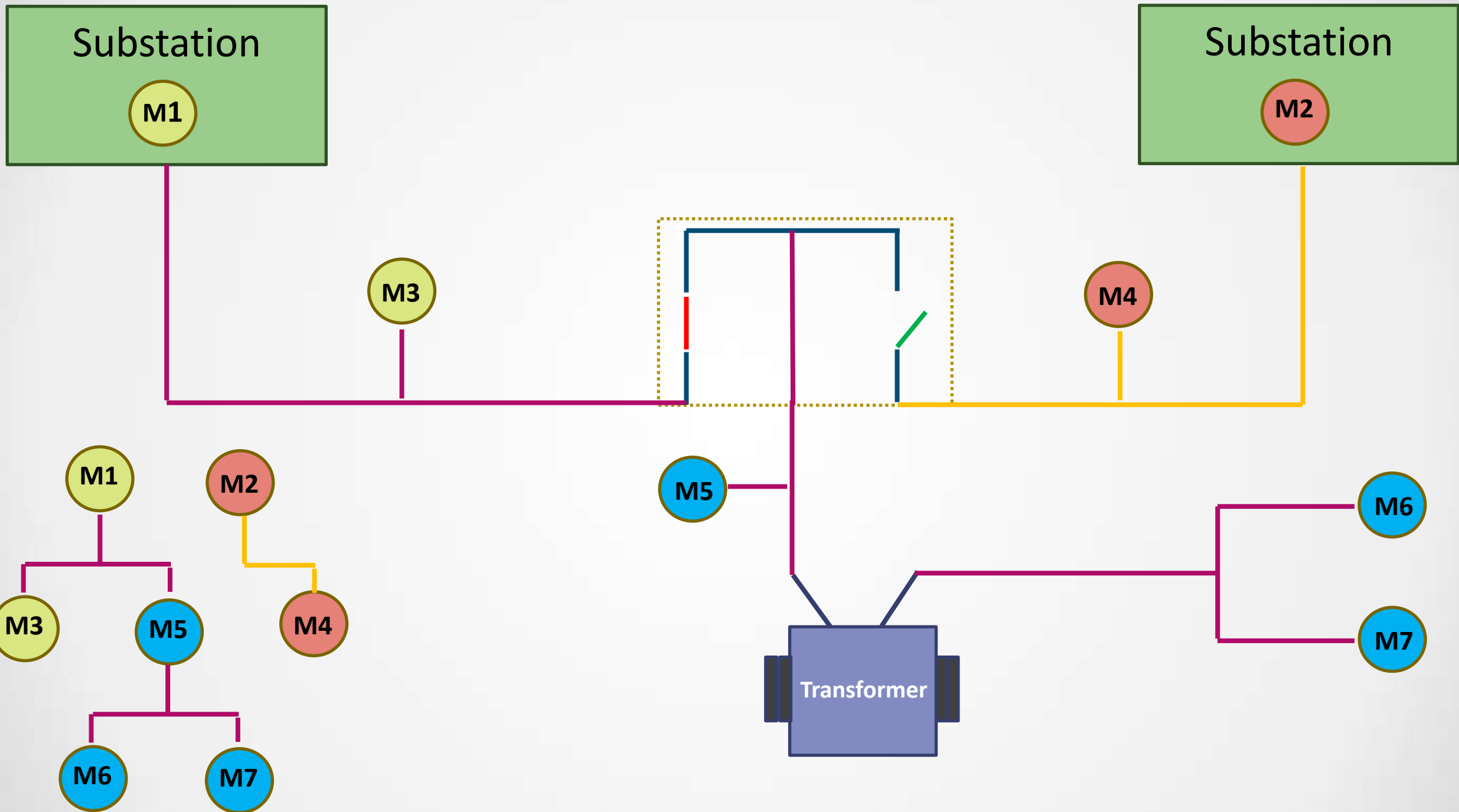
$$\text{Loss} = M1 - (M2 + M3 + M4)$$

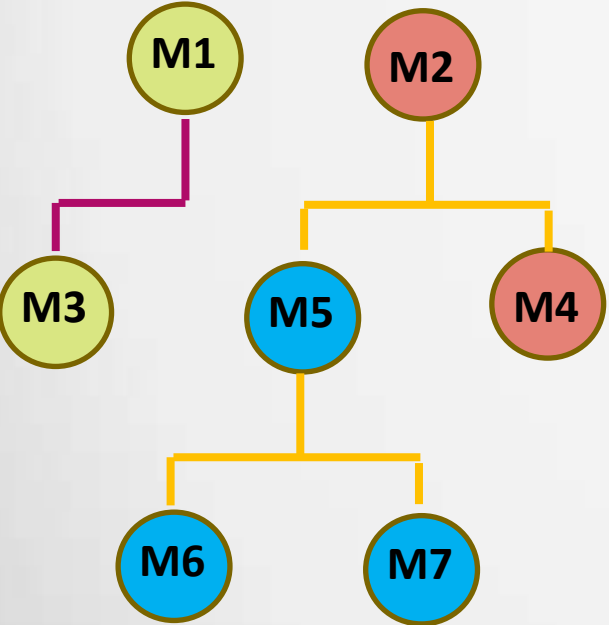
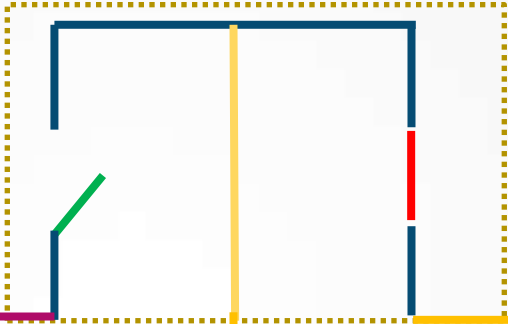
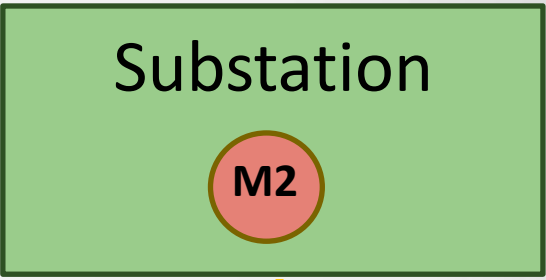
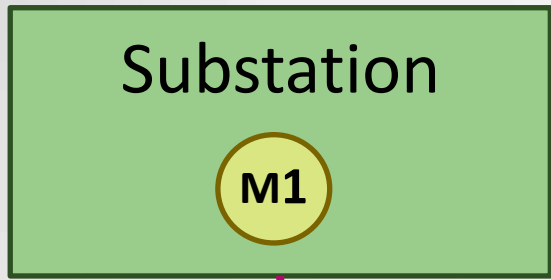


$$\text{Loss} = M5 - (M6 + M7 + M8 + M9)$$

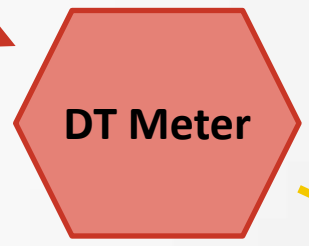
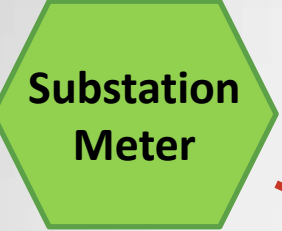


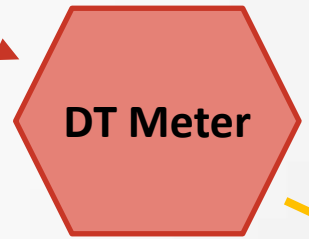
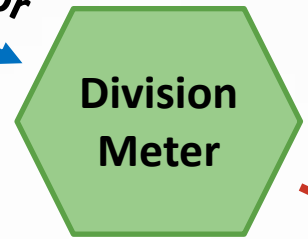
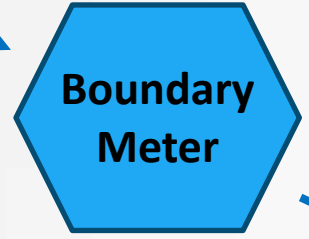
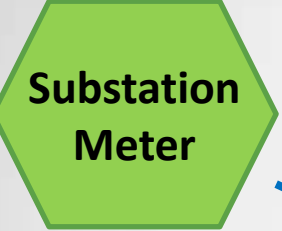






**Ease of Diagnosis by introducing
additional Layers.**



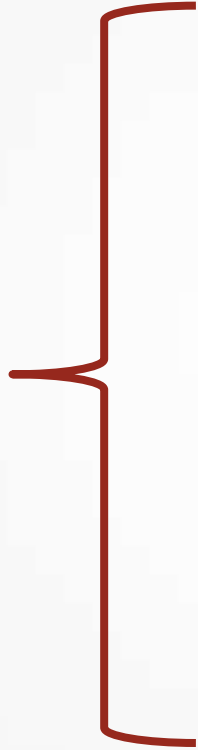


Pre-GIS

Substation Level

Feeder Level

DT Level



Post-GIS

Substation Level

Feeder Level

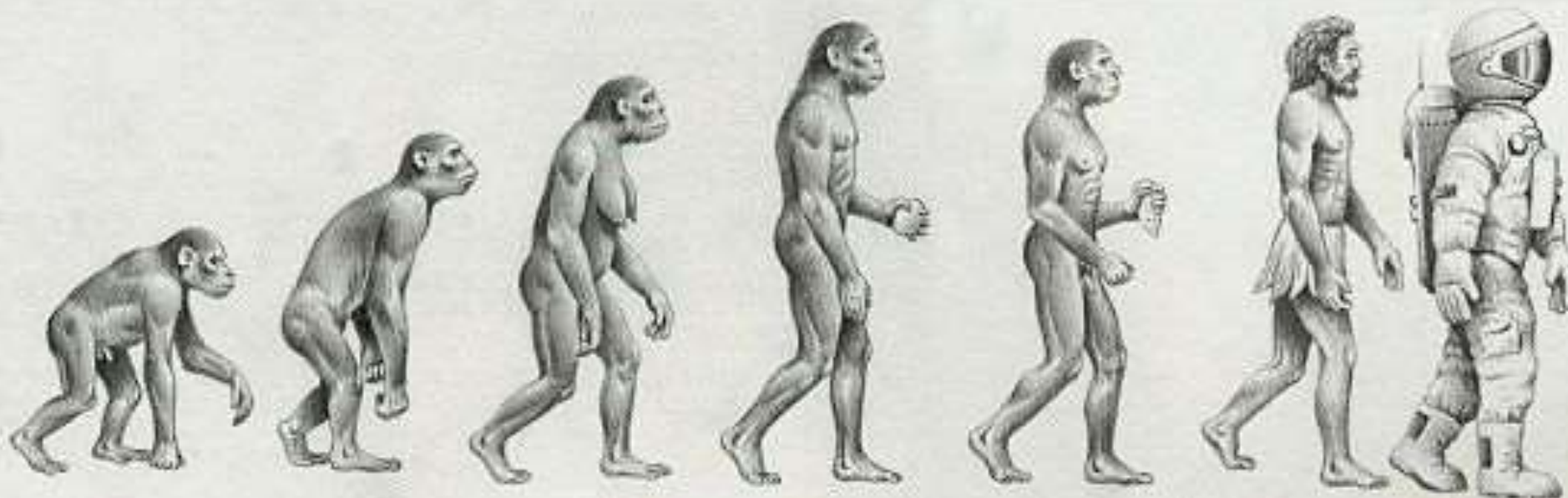
DT Level

Division Level

Boundary Level

Nodal Level

Switching Level



GOING FORWARD @ NPCL



- Integration with OMS system
- Accountability of Temporary Network Switching



Premier GIS Solution Provider

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