

SMART METER DRIVEN LOSS REDUCTION

AT&C LOSS REDUCTION FOR UTILITIES BY AI-ML APPROACH

LR+ PLATFORM

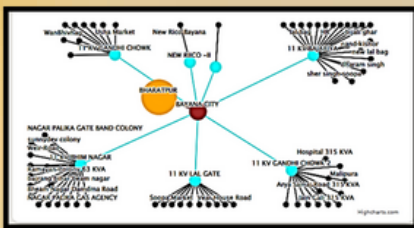
AT & C LOSS REDUCTION

SMART METER DATA ANALYTICS

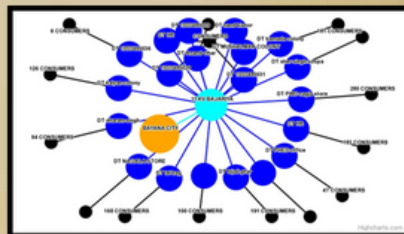


Power DISCOM is increasingly relying on AI-ML based multi-level approach to identify and understand AT&C losses. This platform maximizes the value of systems & consumer smart meters data for a specific solution to technical loss (Network losses) & commercial loss (Inefficiency in collection/billing/Metering+Theft). It also helps DISCOM to enhance operational efficiency, and gain insights to make strategic decisions.

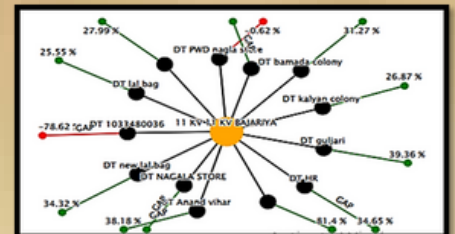
Feeder to DT Mapping



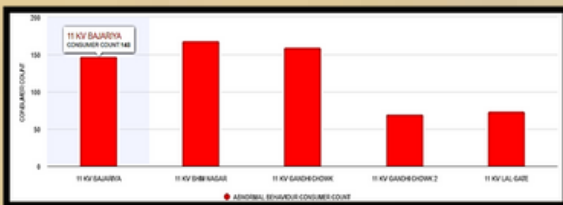
DT to Consumer Mapping



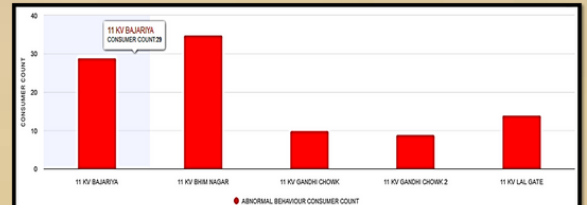
DT Energy Gap



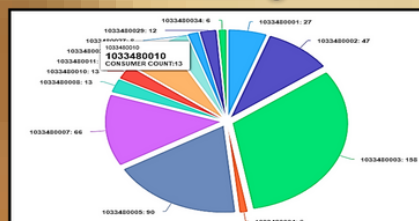
Service parallel activities



By pass activities



Consumer Indexing Verification

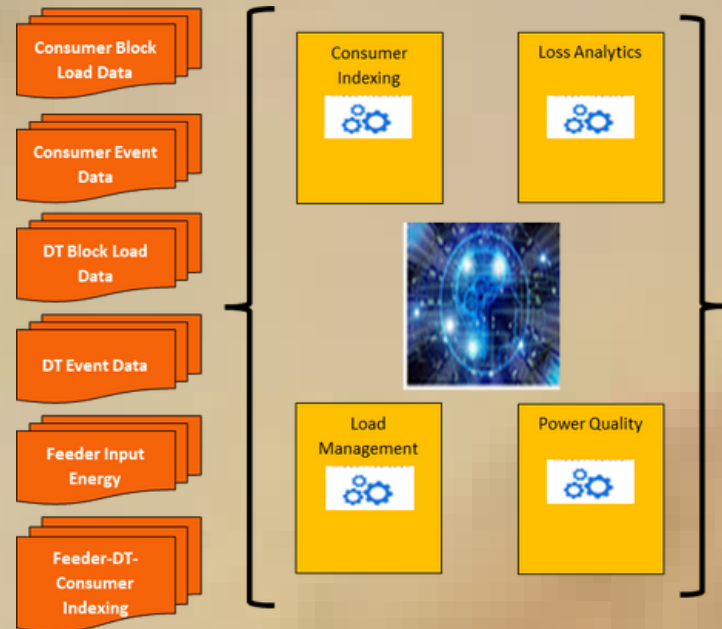


Our Journey so far



Utility Challenges

- High aggregate technical and commercial (AT&C) losses
- Overload distribution infrastructure
- Identification of energy deviation points for service parallel and bypass activities
- Inaccurate metering and billing
- Power quality and voltage fluctuations
- Lack of consumer awareness and engagement



Innovative Approach

- AI & ML based solution to strengthen decision making process for Feeder and DTs performance.
- Integration through open API's for utilities, ERP, CRM & 3rd party applications
- Deployment in cloud / on premise setup
- Configurable business rules for quick adaption and usability
- In-built ESG KPI's

Solution Benefits

- Loss analytics through smart meters event modeling- Suspected and bypass consumer activities
- Reliability and quality analytics enhance life expectancy of distribution feeder /DTs
- Neighborhood analytics for consumer behavior and energy usage pattern
- Feeder Economic Analysis through KPI
- Feeder stressed network analysis and identify the top/worst performing feeders / DTs.
- Implementing consumer indexing field verification alongwith Geo location of feeder/DTs/consumers.