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Session : ISUW 2025

Robotics Process automation for Master data integration

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Improvement in Smart Meter Installation process of Advance Metering Infrastructure (AMI) project which enables Discom to maximize accurate billing and minimizing billing closure cycle.

We started installation of smart meters in June 2022 and maintained consumer details in CIS as a master database. Consumer details were manually mapped in CIS, subsequently in MDMS and HES on daily basis to link consumer number with smart meter serial number for data collection of smart meters.

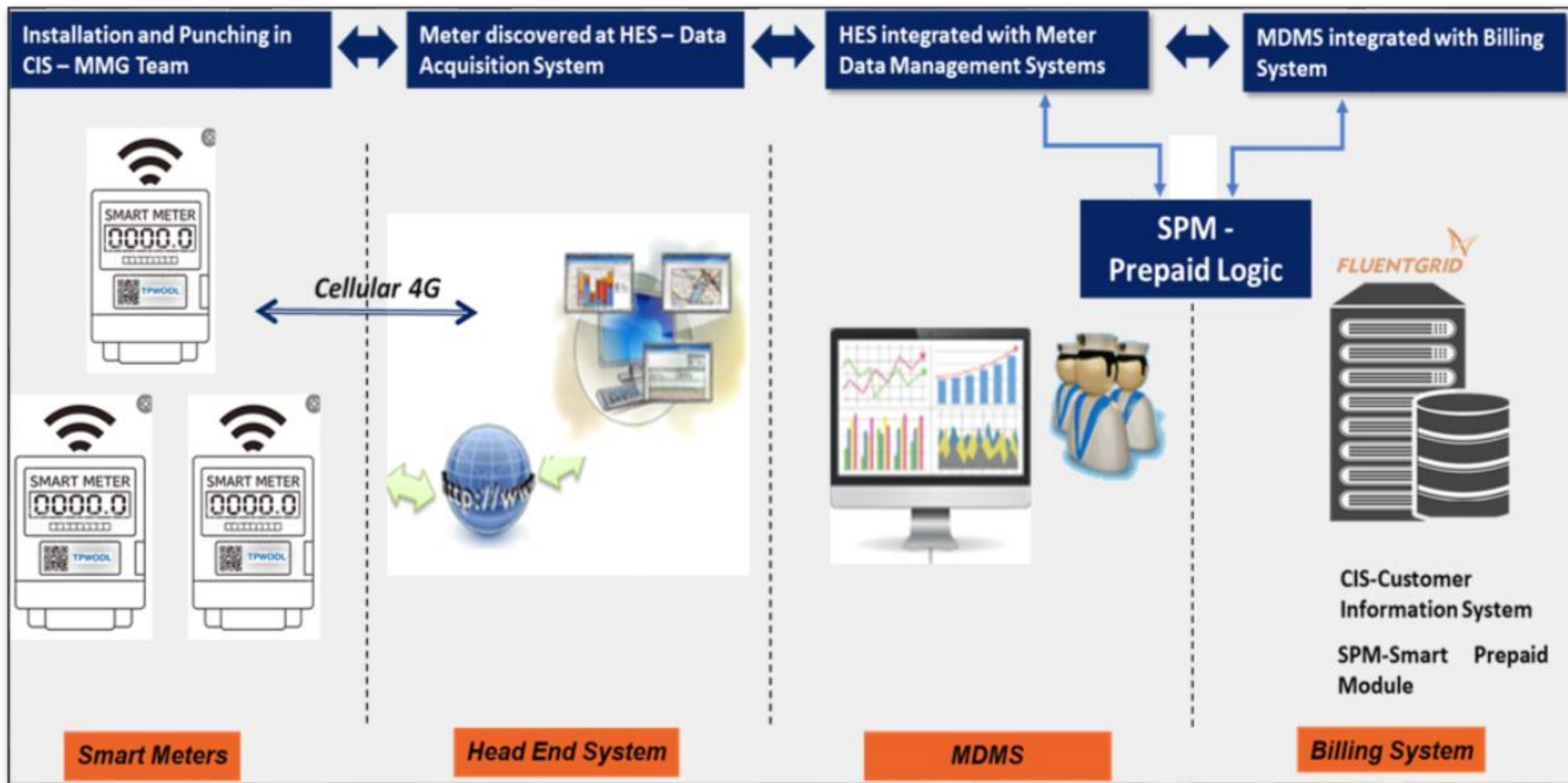
Being a manual process wherein mapping was done by our team every day, could lead to error in mapping. To streamline this approach, we transitioned to robotic-based automation. Initially, we started with bulk uploads in Excel, then moved to API based integration for fully automated data transfer from CIS to MDMS/HES.

RELEVANCE



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Manual Consumer Mapping

Manual entry of
consumer &
Meter details

Manual linkage of
consumer &
Meter

Manual mapping
of consumer

Finalization of
Parameters to be
integrated.

Shared the
parameters to CIS
and MDMS/HES
OEMs.

Development of API.

Ensure testing
few consume
mapping b/w
and MDMS/HE
test environme

CIS

MDMS

HES

Challenges in implementation
of Robotics Process
automation for Master data
integration

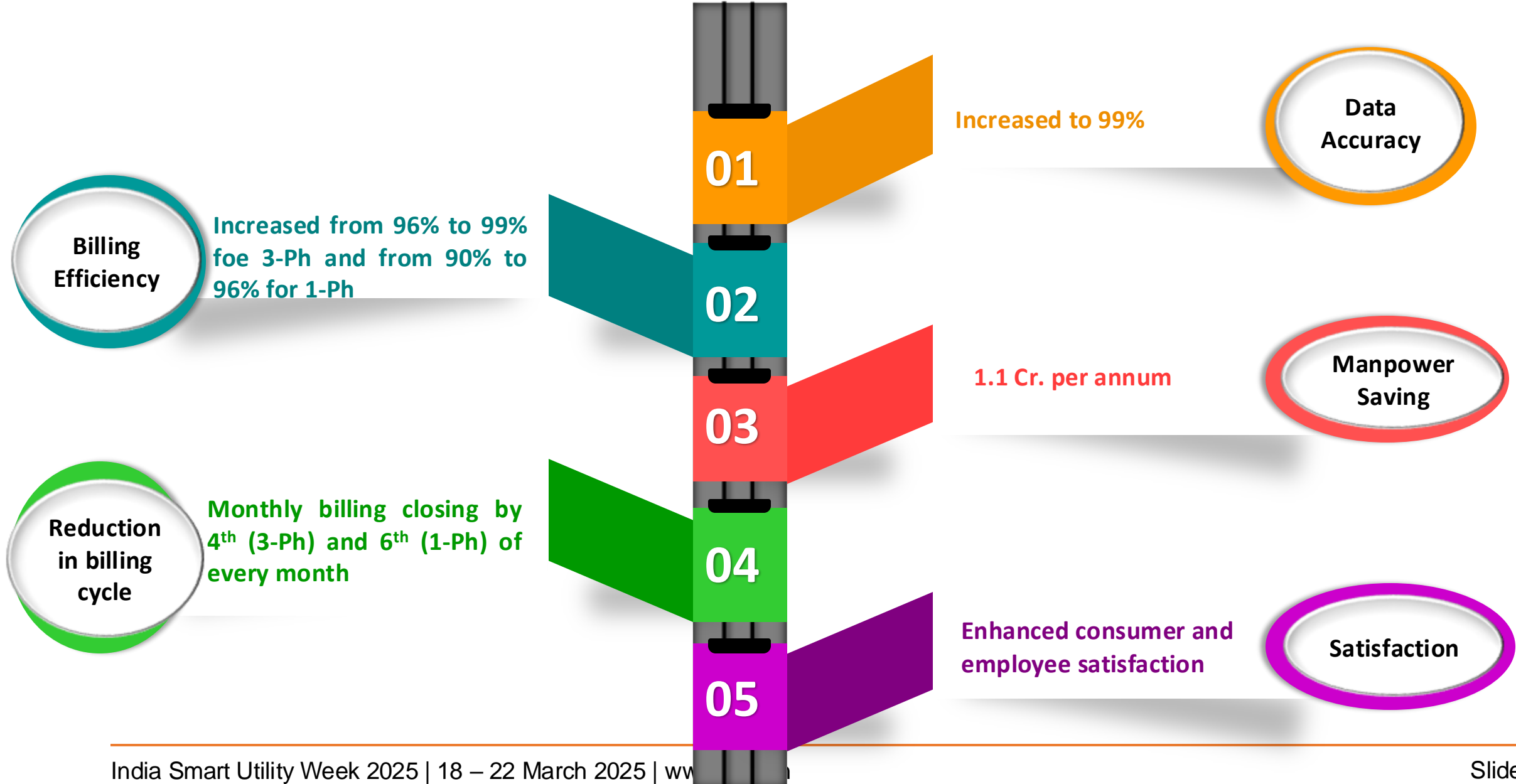
- Being different data format in CIS and MDMS/HES, bringing all OEMs on common platform.
- Standardization of parameters to be integrated.
- Development of API (Application Programming Interface).

BENEFITS

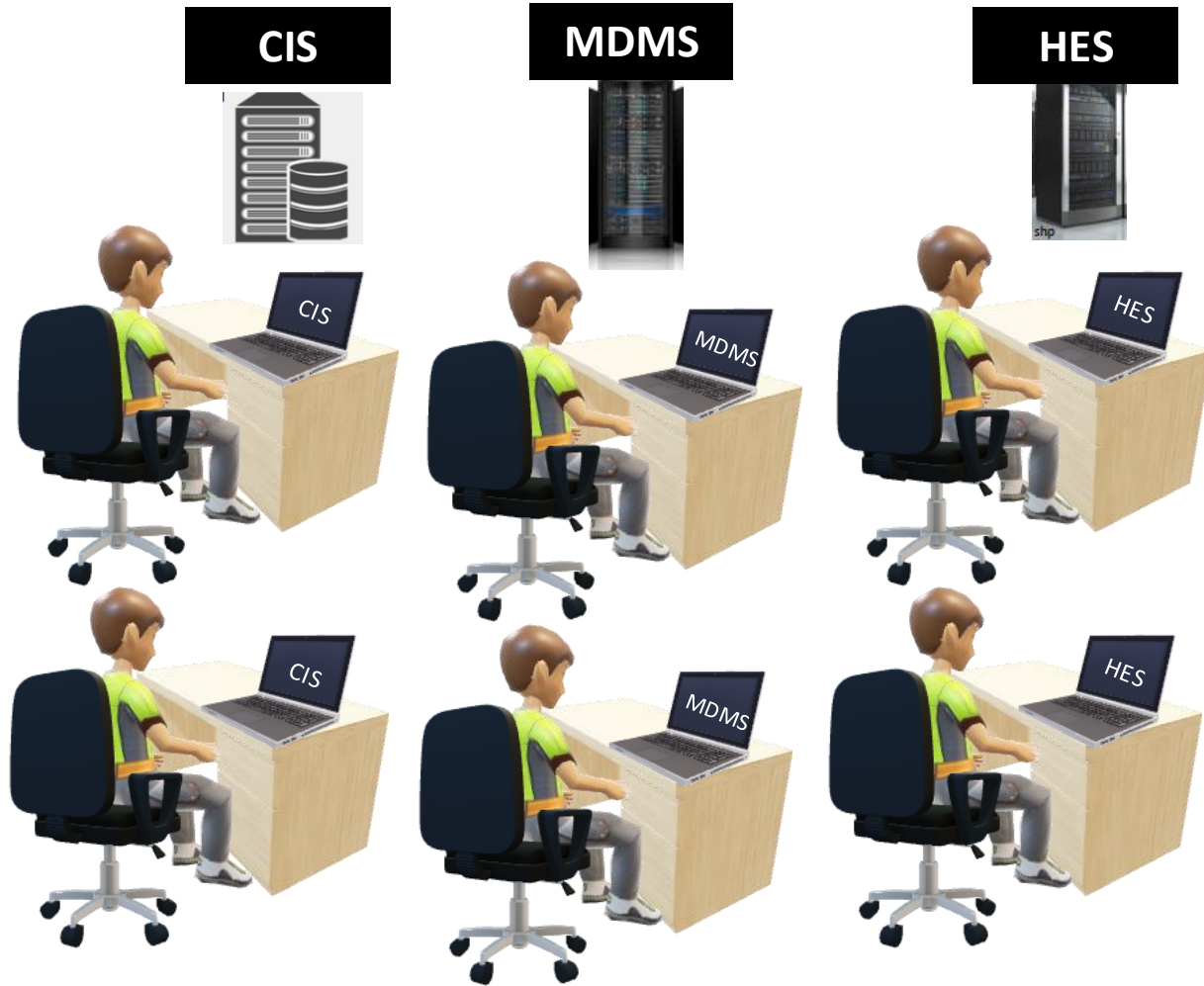


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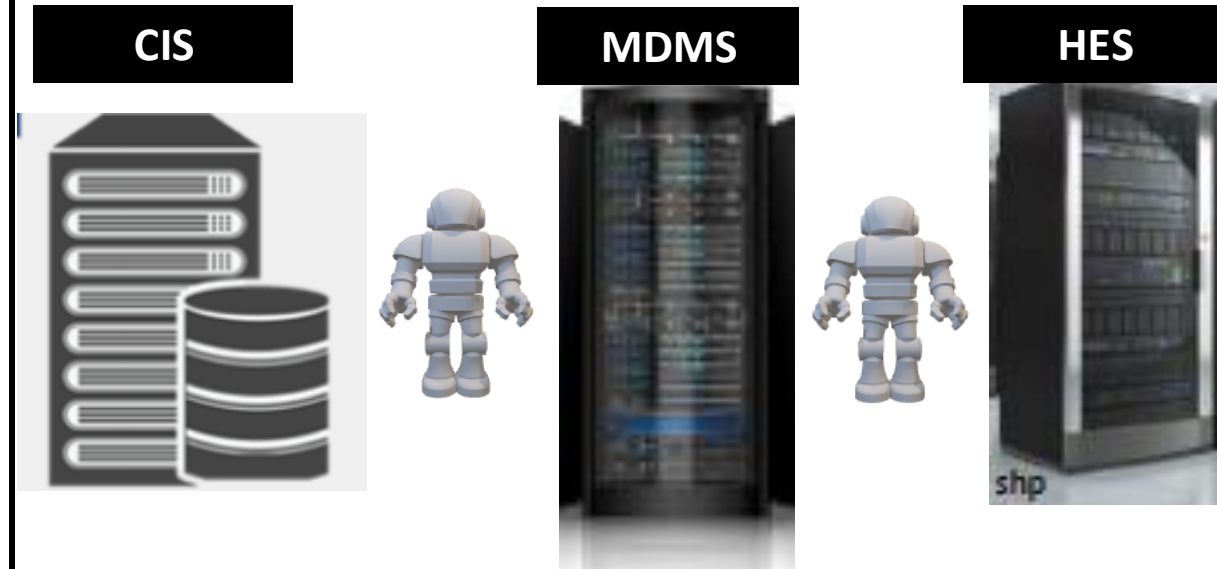
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Manual Mapping

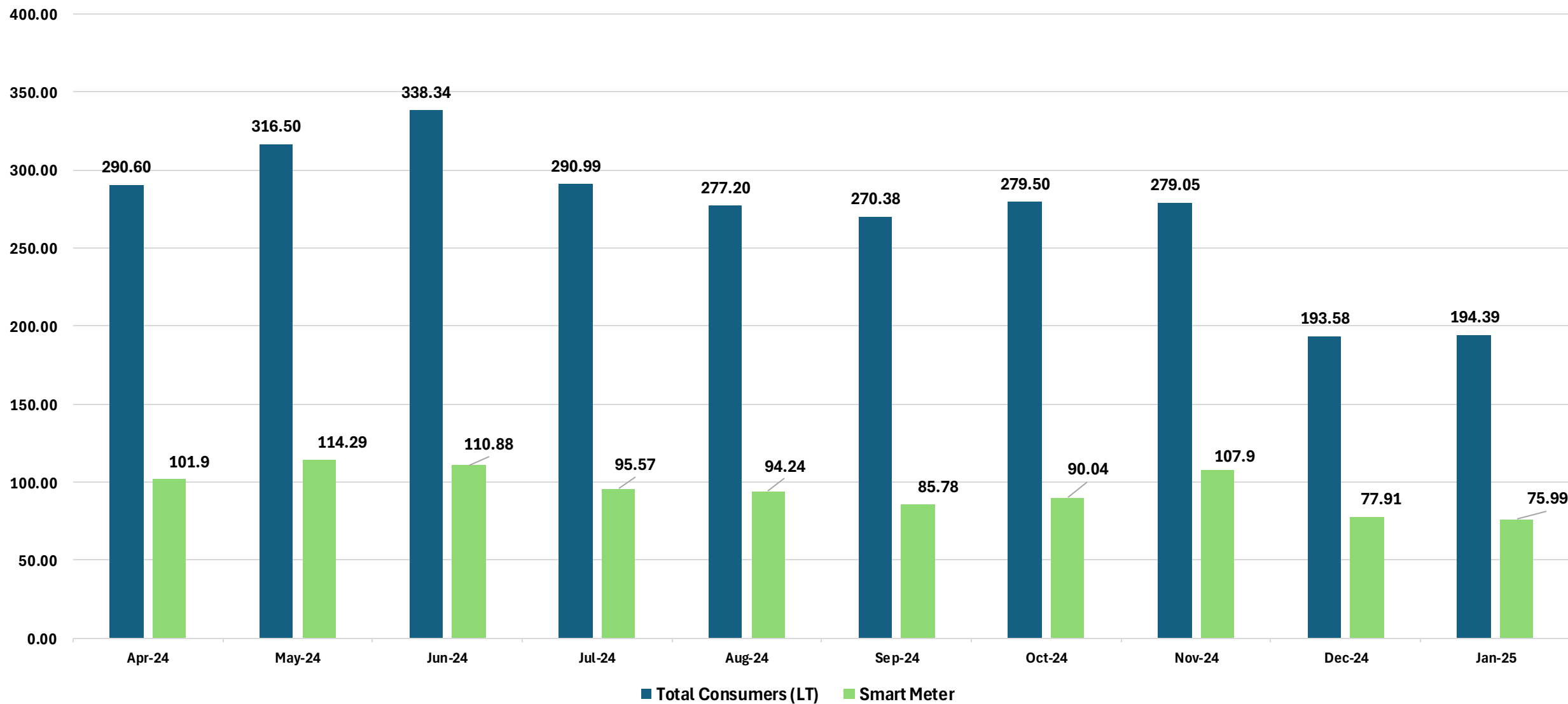


Robotic process-based Mapping





Total MUs Billed



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THANK YOU

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

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[Links/References \(If any\)](#)