

# 1542 – MICROSERVICE-ORIENTED INTEGRATION LAYER FOR LV MANAGEMENT TOOLS

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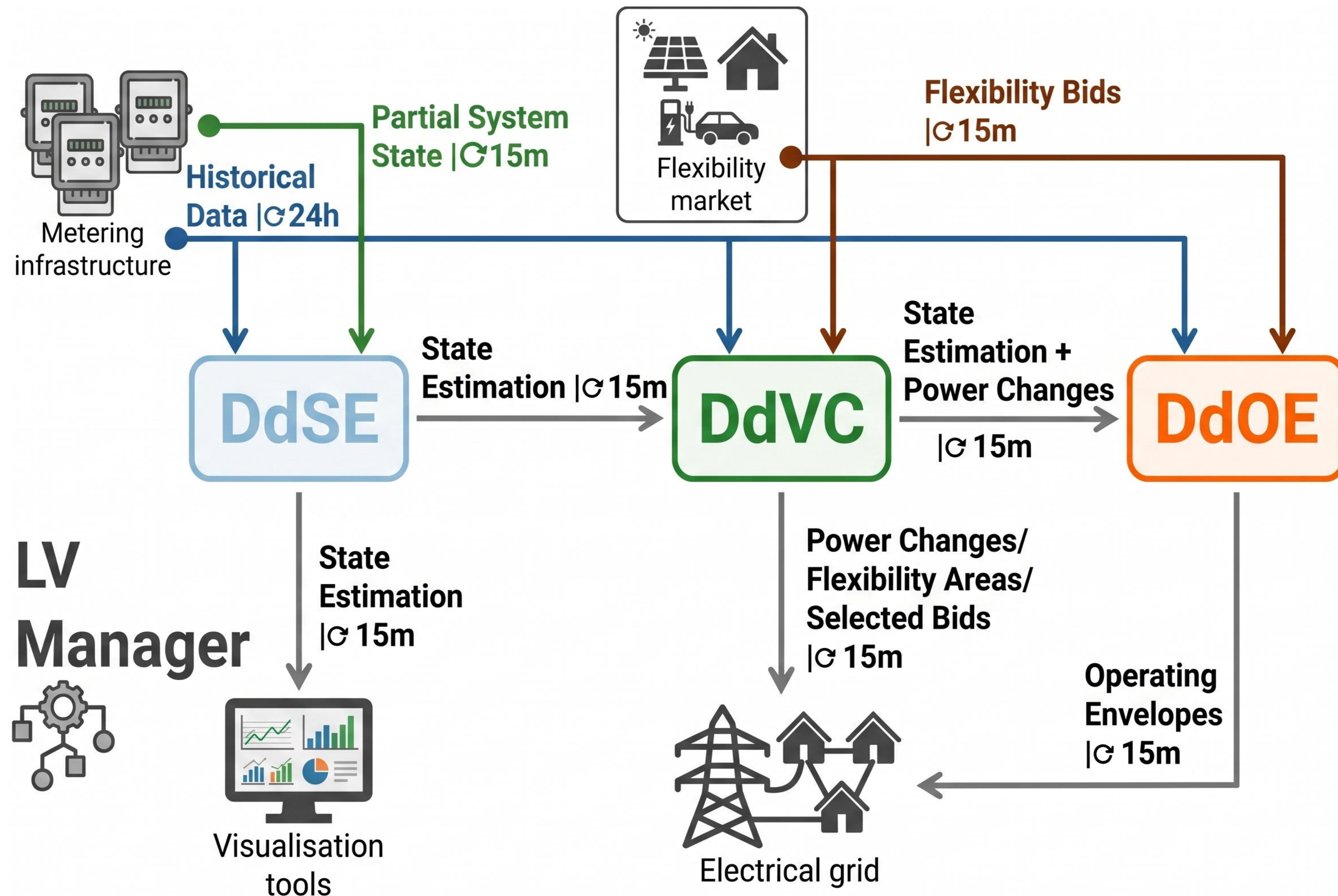
## Introduction

LV grids need active management. DSOs need tools that integrate easily. This work connects LV analytics and control tools through a common microservice layer.

## Methods

The **eneida DeepGrid® SDK** provides the common interface, connecting external apps to Kafka, InfluxDB and PostgreSQL.

The **LV Manager** wraps the **Data-driven State Estimator (DdSE)**, **Voltage Control (DdVC)** and **Operating Envelopes (DdOE)**. It runs the tools in sequence and publishes the results to **eneida DeepGrid®**.

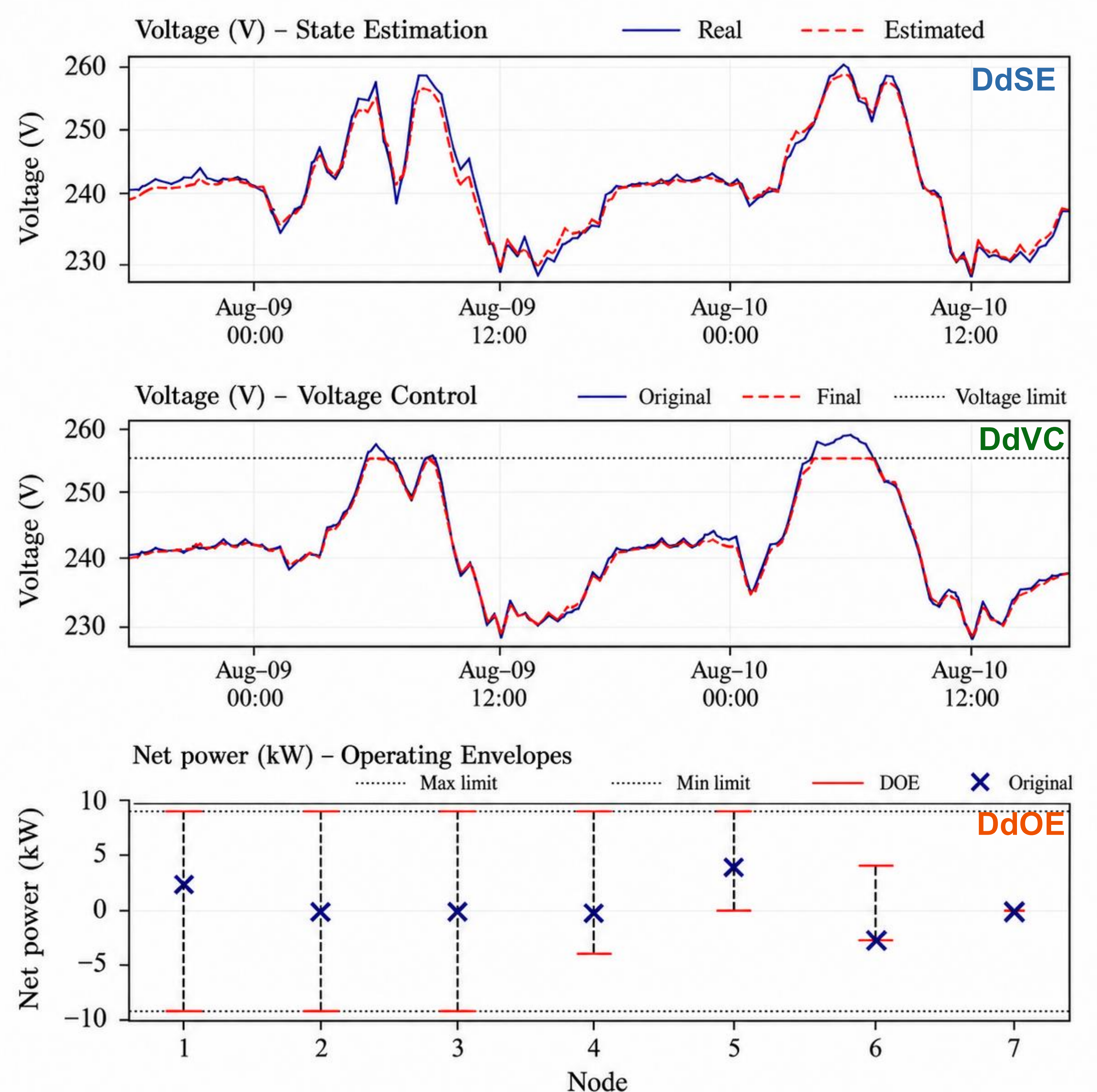
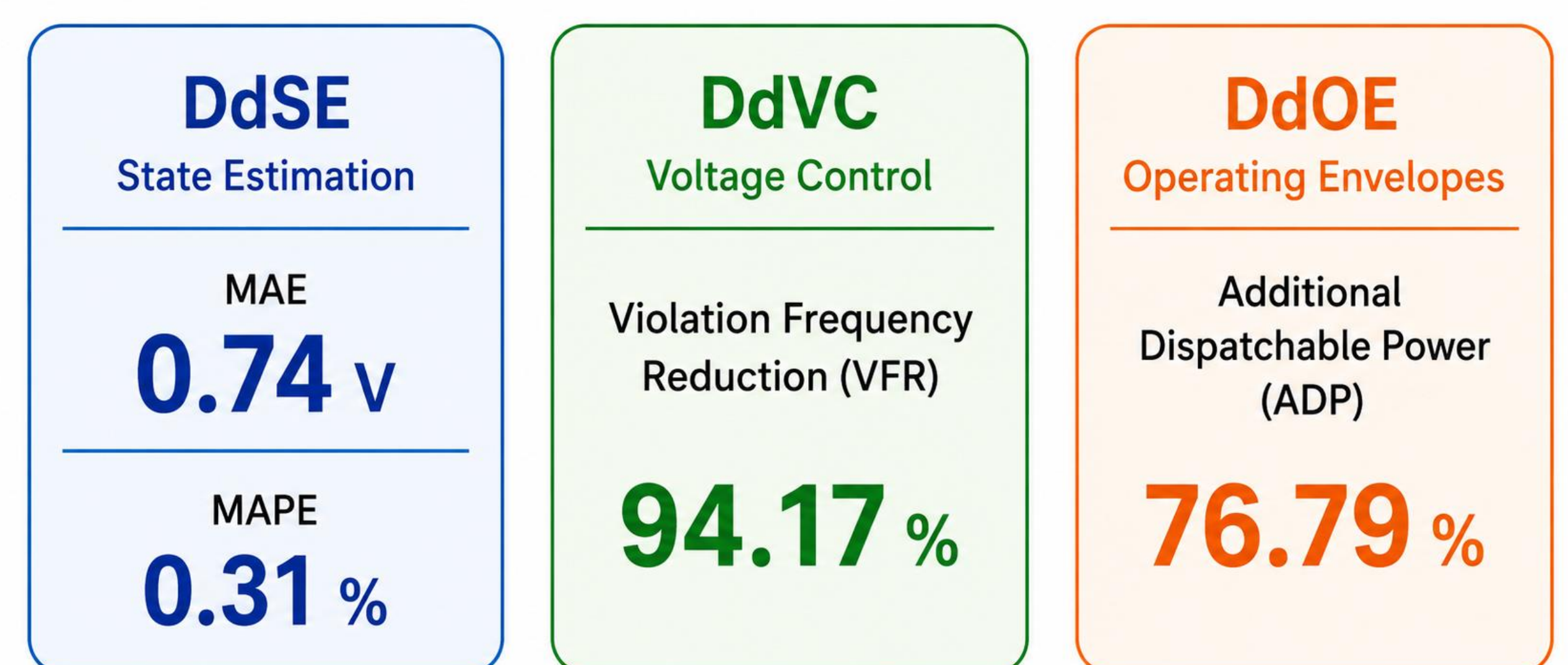


## Conclusion

The approach bridges standalone LV algorithms and operational deployment. Ongoing field testing will assess performance under real conditions.

## Results

Pre-deployment validation confirmed end-to-end workflow coherence.



## ENEIDA DEEPGRID® INTEGRATION ARCHITECTURE

