AstrenEppTM

India's First AI-Ready Meter Data Management Platform

The Intelligence Core of Smart Energy

AstrenEppTM is our flagship Meter Data Management (MDM) platform—engineered to transform raw meter data into clean, validated, and actionable intelligence. It's the digital brain behind modern utilities, enabling billing-grade accuracy, predictive analytics, and regulatory compliance across millions of endpoints.

Built for India's Smart Grid Mandate

Standard	Compliance
IS 15959 Part 3	Structured data formats, VEE engine, multi-vendor compatibility
CEA AMI Guidelines (2023–2025)	Raw data retention, secure key handling, auditability
IEC 61968 / 62056	API-level integration and DLMS/COSEM protocol support
Smart Grid Vision 2030	DER, EV, rooftop solar, and BharatNet compatibility

Q Core Capabilities

Data Ingestion & Normalization

- Multi-source ingestion from smart meters, DCUs, and HES (e.g., MidasEppTM)
- Schema harmonization across vendors and protocols
- Real-time and batch processing of interval data (15-min, hourly, daily)

VEE Engine

- Automated Validation of missing, duplicate, or corrupt data
- Intelligent Estimation using historical and peer-based models
- Manual and rule-based **Editing** with full audit trails

Data Publishing & Integration

- RESTful APIs and IEC 61968 adapters for billing, outage, CRM, and analytics systems
- Role-based access for DISCOMs, AMISPs, and third-party platforms
- Event-driven push and pull mechanisms for enterprise workflows

Security & Governance

• AES encryption for data at rest; TLS for data in transit

- Full auditability of every transformation and access event
- Role-based access control with multi-tenant isolation
- Secure key lifecycle management aligned with CEA standards

✓ Intelligence & Analytics

- Load profiling, peak demand analysis, and consumption forecasting
- AI/ML-ready data lake for theft detection, outage prediction, and DER optimization
- Geo-tagged insights for field operations and asset health
- Integration with BI tools, data warehouses, and AI engines

(#) Deployment Models

Model	Description
Cloud-native	Hosted on AWS, Azure, or Bharat Cloud with elastic scaling
On-premise	For utilities requiring local control and data sovereignty
Hybrid	Combines edge caching with centralized intelligence for latency-sensitive
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Tuture-Ready Enhancements

- EV charger and rooftop solar data integration
- IPv6, NB-IoT, and 5G protocol support
- BharatNet and Smart City compatibility
- AI-powered diagnostics and field automation
- Plug-and-play onboarding for new meter types and OEMs

ॐ AstrenEpp Synergy

- Seamless integration with **MidasEppTM** for unified AMI stack
- Compatible with our predictive engines and field automation modules
- Designed for scalable commercialization

Launch with Confidence

Whether you're modernizing legacy infrastructure or deploying a greenfield AMI rollout, **AstrenEpp**TM delivers unmatched reliability, scalability, and intelligence—powered by our Smart Grid Platform.

"AstrenEpp isn't just a data warehouse—it's the intelligence engine of India's energy future."