



Kerala Domestic Solar Prosumers Community

Solar Energy For a Sustainable Tomorrow

KDSPC Comprehensive Resolution

Kochi May 24, 2026

Preamble

The **Kerala Domestic Solar Prosumers Community (KDSPC)** —representing solar prosumers, renewable energy advocates, consumer rights representatives, and citizens committed to Kerala's clean energy future—adopts this Resolution as a Strategic Directional Document for the transformation of Kerala State Electricity Board Limited (KSEBL). It is grounded in global analysis of electricity utility transformation, which identifies four defining characteristics of a successful future utility:

- (i) diversified, asset-light portfolio management;
- (ii) mastery of Big Data and digital intelligence;
- (iii) user-friendly automation and digital applications; and
- (iv) deep, trust-based customer relationships as the core asset of the business.

Lessons from DISCOM transformation across India—from Delhi's privatisation-led turnaround to Gujarat's public-sector reform model and the cautionary failure of Odisha's first privatisation attempt—are applied here.

KSEBL is no ordinary DISCOM. Its AT&C losses of 7.55% in FY2023-24, its A+ consumer service rating, and its 1.38 crore consumer base are genuine operational strengths. Yet its financial position is structurally fragile: a negative tangible net worth of ₹33,654 crore (meaning total liabilities heavily exceed physical assets), total debt of ₹17,620 crore, and ₹6,408 crore in regulatory assets unrecovered for two consecutive years. A profitability that depends on government bailouts rather than operational surplus is not sustainable. The status quo is not an option.

Recitals

- **Global Disruption:** WHEREAS the global electricity distribution sector is undergoing rapid disruption driven by decarbonisation, distributed energy resources, the rise of prosumers, and technology-native new entrants who are redefining the consumer-utility relationship and threatening to reduce traditional distribution companies to residual top-up kWh providers unless they transform proactively;
- **Kerala Context:** WHEREAS KSEBL's structural financial weaknesses—a negative net worth of ₹33,654 crore, ₹17,620 crore in debt, and ₹6,408 crore in unrecovered regulatory assets—demand urgent, systemic, and sustained reform;
- **Strategic Imperative:** WHEREAS KSEBL requires a clear, publicly stated strategic direction supported by robust PPP frameworks, an independent regulatory anchor in KSERC, and a genuine prosumer partnership that treats Kerala's 3,00,000+ rooftop solar consumers and growing EV fleet as distributed energy assets rather than passive load points;

KSEBL Transformation Resolution
(NOW, THEREFORE, BE IT RESOLVED)

NOW, THEREFORE, BE IT RESOLVED that this General Body collectively and unanimously demands that KSEBL immediately implement a comprehensive transformation roadmap structured across the following four strategic pillars to protect the utility from financial erosion and successfully revamping its infrastructure:

1. Asset-Light Portfolio Management

- KSEBL shall adopt an Asset-Light Portfolio Strategy structuring BESS (Battery Energy Storage Systems) and pumped storage as PPP concessions backed by Government of India Viability Gap Funding (VGF).
- Issue Firm and Dispatchable Renewable Energy (FDRE) tenders that procure assured output at a fixed all-in tariff rather than owning physical assets.
- Establish KSEB Green Energy Solutions (KGES) as a wholly owned subsidiary licensed to trade renewable energy, with a mandate to offer competitive Green Power Supply Agreements to commercial and industrial consumers with a connected load of 100 kW or above, retaining those consumers within the KSEBL ecosystem before they migrate to third-party open access developers.
- KGES shall sign long-term PPAs with private solar, wind, and hybrid RE developers on competitive terms, wheeling all supply through the KSEBL network to preserve regulated wheeling income.
- KSEBL shall recognise Kerala's 3,00,000+ rooftop solar prosumers and growing EV fleet as distributed energy assets to be actively aggregated and commercially engaged through Virtual Power Plant (VPP) arrangements.

2. Big Data and Smart Metering

- KSEBL shall treat the deployment of all 1.38 crore smart meters as its single highest infrastructure priority—not as regulatory compliance, but as the foundation of its commercial transformation.
- Deployment shall proceed through a Build-Own-Operate-Transfer (BOOT) PPP model under which private AMI vendors install, own, and operate meters for 8–10 years at a per-meter monthly service fee, eliminating ₹3,000 - ₹5,000 crore in upfront capital expenditure.
- KSEBL shall establish an Energy Data Platform to support demand forecasting, loss detection, tariff design, and renewable integration planning.
- Anonymised, privacy-protected consumer data shall be opened to a regulated ecosystem of authorised third-party developers to enable home energy management, solar optimisation, EV smart charging, and demand response applications.
- KSEBL shall develop its own data-driven propositions—including differentiated tariffs, personalised energy efficiency recommendations, and predictive outage alerts—leveraging its position as the holder of consumers' energy histories.

3. Digital Applications and Automation

- KSEBL shall commission a Consumer Digital Transformation Programme, delivered through outcome-based technology partnerships, to achieve a unified consumer app providing real-time consumption data, solar generation tracking, EV charging status, automated bill payment, and AI-powered efficiency recommendations in both Malayalam and English.

- Deploy a real-time outage notification system integrated with maps and messaging platforms, backed by a consumer charter with legally enforceable service-level standards.
- Deploy an Automated Demand Response (ADR) platform enabling voluntary, consumer-controlled programmes in which smart appliances shift load to off-peak hours in response to Time-of-Day (ToD) price signals, flattening the demand curve and reducing bills.
- An EV Smart Charging programme shall turn Kerala's growing EV fleet into a grid-balancing resource through scheduled overnight charging during periods of high renewable availability.
- All digital programmes shall be delivered through outcome-based private technology partnerships paid strictly on measurable KPIs, not on time-and-materials contracts.

4. Deep, Trust-Based Customer Relationships

- KSEBL shall formally adopt the position that its relationship with its 1.38 crore consumers is its most valuable asset, establishing a Chief Consumer Officer at Board level, introducing an annual Consumer Trust Index linked to the CMD's performance evaluation, and implementing a Performance-Linked Accountability Framework (PLAF) across all divisions tied to consumer-facing KPIs.
- KSEBL shall develop a Prosumer Partnership Programme creating a Kerala Solar Prosumer Registry—a real-time database of all grid-connected solar systems, their generation profiles, and banking entitlements—accessible through the KSEBL app.
- A Solar Community Tariff shall be launched offering solar prosumers who commit to installing BESS alongside their systems more favourable banking terms in exchange for reducing peak-hour grid dependence.
- No PPP arrangement, tariff reform, or digitalisation programme shall result in any deterioration of service quality for low-income domestic or agricultural consumers; all PPP contracts shall carry KSERC-overseen consumer protection obligations.

Call to Action

KDSPC calls upon the Honourable Minister for Electricity and the KSEBL Board to receive this Resolution as a citizen-community input on KSEBL's strategic direction and to constitute a Transformation Steering Committee with representation from all stakeholder segments. The prosumer community is called upon to remain actively engaged through tariff hearings, regulatory consultations, and public accountability for the commitments made herein.

Prosumers are not passive recipients of electricity. We are investors in distributed energy, electric vehicle owners, informed citizens, and active partners with a direct stake in shaping Kerala's clean energy future.

Unanimously passed on Sunday, May 24, 2026, by the General Body Assembly of 170 solar prosumers representing various districts of Kerala, convened at the inaugural friendship meet (Solar Summit) in Kochi.

Kerala Domestic Solar Prosumers Community (KDSPC)

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Solar Energy for a Sustainable Tomorrow