

ELEKTO: A Closed-Loop Token for Local Energy Sharing

1. Executive Summary

ELEKTO is a self-contained, plug-and-play model for building decentralized local energy systems that combine:

- Solar, V2H (Vehicle-to-Home), batteries, wind and biogas
- A local microgrid (island mode) for energy sharing
- Blockchain-based metering and token incentives
- A native energy token: \$ELEKTO

Our goal is to make energy communities profitable, independent, and easy to manage, especially for households, eco-projects, and rental properties.

2. Why This Matters

Selling excess energy to the national grid is often economically unviable for small producers due to:

- Low compensation prices
- High grid fees
- Bureaucratic limitations

Instead, sharing energy locally between buildings and users via a microgrid unlocks real value. ELEKTO rewards this local sharing with tokens and enables energy-based transactions in a closed ecosystem.

3. Our Demo Project (Q3 2025)

We are developing a small test community consisting of:

- One main building (200 m)
- Two smaller guest houses (35 m + 25 m) - used for Airbnb-style rentals
- 4 EV chargers:
 - 2 private (22 kW, bidirectional V2H)
 - 2 guest chargers (11 kW + 7 kW) with payment via SEK or \$ELEKTO
- Battery storage for self-consumption and backup
- Solar panels (high-efficiency TopCon or similar)

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- Optional: HomeBiogas with electricity conversion (generator)
- Optional: Small wind turbine integration
- Smart meters per building with a real-time dashboard

All systems will be locally managed and visualized - showing production, consumption, and energy flows in real time.

We are building a small test community and actively seeking partners for hardware, software, and grid integration. We have successfully tested the \$ELEKTO token and believe it would be fun and engaging for customers to earn, save, and use it - while being clear that it is not a currency and holds no fiat value.

4. How ELEKTO Works

4.1 Energy Sources

- Solar panels (TopCon or equivalent)
- Battery storage (ARK or equivalent)
- Biogas -> electricity (HomeBiogas 7.0 or similar)
- V2H-compatible EVs (e.g. Tesla)
- Optional: small wind turbine

4.2 Energy Distribution

- All buildings are connected through a local microgrid, with the option to operate in island mode if needed.
- The system is grid-connected by default, allowing import/export of energy when prices are favorable or grid support is required.
- Local sharing of energy between buildings is prioritized to maximize self-consumption and reduce grid dependency.
- Energy production and consumption are metered in real time and logged to the blockchain via oracles.
- Charging stations and loads are tracked using QR/Rfid to enable per-user billing and token-based access.

This hybrid setup allows the ELEKTO system to balance autonomy with flexibility - utilizing grid power when beneficial while maintaining a local sharing economy among users.

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5. Token Design & Compliance

- \$ELEKTO can only be used inside the ELEKTO ecosystem for energy payments, rewards, and discounts.
- It is not a currency and cannot be traded for SEK, EUR or any fiat.
- Smart contracts include a whitelist that allows transfer only between verified wallets (e.g. ELEKTO users).
- A switch can deactivate the whitelist in the future to allow wider use.
- No speculation or financial gain is expected or allowed - \$ELEKTO is not an investment.
- GDPR compliance will be ensured for all user data, especially in dashboards.

6. Use Cases & Incentives

- 1 token = 1 kWh produced or shared
- Tokens earned for solar generation, V2H, or smart battery discharge
- Energy leaderboards between neighbors
- Airbnb hosts get 'Green Certification' when sharing energy
- Gamification with NFT badges (e.g. 'Solar Guru' after 1 MWh)

7. Roadmap

Phase	Target Date	Goal
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Demo Villa Build	Q3 2025	Main house + 2 rentals + 4 chargers
Token Launch / Airdrop	Q4 2025	Launch on Polygon, reward early backers
V2H Sales with Tokens	Q1 2026	Discounts on systems via \$ELEKTO
Microgrid for Neighbors	Q2 2026	Expand local sharing to nearby buildings
DAO Activation	Q3 2026	Governance voting, community pool, expansion

8. Join Us

We invite partners, manufacturers, energy cooperatives and innovators to join us in building Sweden's first open energy community.

Project lead: Joakim Eklund

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OrganiQ Sweden AB

Email: joakim@organiq.se

Website: www.organiq.se

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