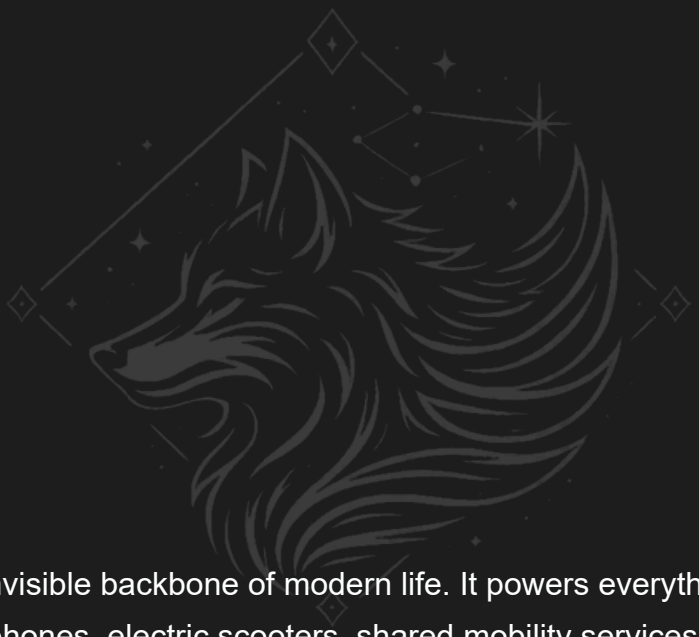
# Introduction

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Decentralizing the Last Mile of Energy



Energy is the invisible backbone of modern life. It powers everything we depend on—our smartphones, electric scooters, shared mobility services, wearable devices, and even the smart infrastructure that surrounds us. Yet, despite its fundamental role in our daily existence, the way energy is delivered remains outdated. The infrastructure is centralized, heavily siloed, and largely controlled by a handful of corporate entities and public utilities. It is slow to adapt, expensive to deploy, and often inaccessible to the people who need it most—especially in high-density urban areas and rapidly growing cities.

This mismatch between how energy is consumed and how it is distributed presents a massive inefficiency—and a major opportunity for innovation.

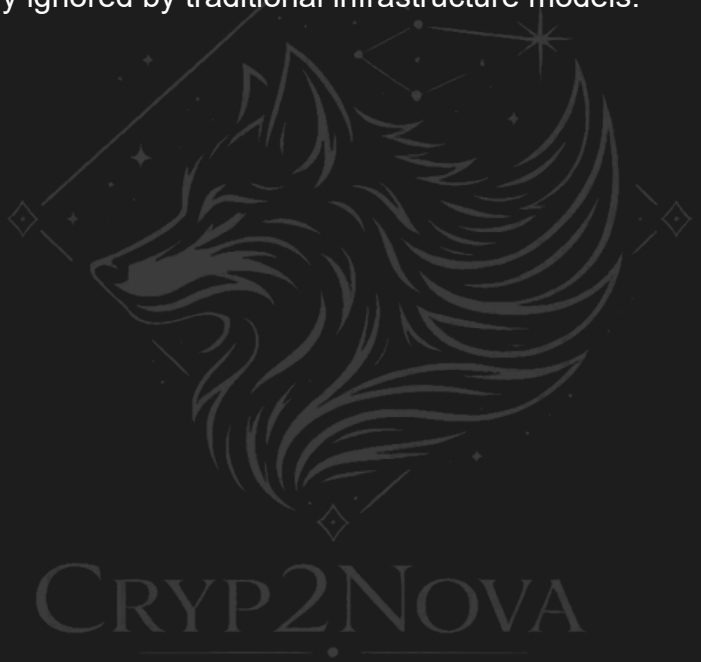


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Piggycell began with a deceptively simple but profoundly disruptive idea: ***“What if the smallest possible energy transaction—a phone charge—could be decentralized, transparently tracked, and financially rewarding to all participants?”***

Rather than focusing on large-scale energy grids, Piggycell zooms in on micro-energy—those small yet frequent instances of energy use that power our everyday lives. Phone charging, battery swaps, and mobile device recharging might seem trivial, but collectively they represent millions of energy interactions per day that are currently untraceable, unmonetized, and unowned by the users themselves.

We believe this represents the true “last mile” of the energy economy—one that has been largely ignored by traditional infrastructure models.




To address this, we are building a Real-World Asset (RWA) infrastructure network designed specifically for portable, distributed, and programmable energy assets. Piggycell transforms power banks, shared charging stations, and mobility hubs into tokenized on-chain assets—each of which is tracked transparently and open to participation by individuals, businesses, and communities alike.

This shift unlocks a new class of infrastructure that is:

- **Decentralized**: Anyone can own a node, provide energy, or host devices without needing to be a utility provider.



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- **Programmable**: Energy usage data is recorded in real-time on-chain and can trigger smart contracts, incentives, or audits automatically.
- **Transparent and Traceable**: All energy transactions are visible and verifiable through blockchain infrastructure.
- **Incentivized**: Users, hosts, and contributors earn tokens for their participation, creating a fair and self-sustaining ecosystem.

In essence, Piggycell is reimagining how energy infrastructure is built and governed—from the top-down monopolistic model to a bottom-up, community-owned paradigm. Just as decentralized finance (DeFi) redefined how we interact with money, Piggycell is redefining how we interact with power—both electrical and economic.

This is not just about charging phones. It’s about charging the future—with equity, transparency, and participation built in.

Next
Problem Statement:

Last updated 6 months ago

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