

# Panda Power - Lite Paper

#pandapower

#blockchain

#berachain

#project

**Lite Paper: Panda Power Finance**

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**Project Name: Panda Power**

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## 1. Executive Summary

At Panda Power, we are working to create a platform that aligns decentralized finance with wildlife conservation efforts. Utilizing the capabilities of Berachain, our mission is to enable users to optimize their staking rewards while supporting the preservation of endangered species, particularly pandas.

Our approach involves automating staking processes and incorporating donation mechanisms, making it easier for individuals to engage in both financial growth and environmental stewardship. Importantly, the mechanics of Panda Power will reinforce Berachain's ecosystem by enhancing the utility and effectiveness of its three-token model. Additionally, by promoting liquidity provisioning (LP), we aim to contribute to the overall security of the Berachain network.

We strive to facilitate an easy and impactful way for individuals to contribute to vital conservation initiatives alongside their financial endeavors. Our vision is to foster a community where users can grow their assets while also making a difference for the environment.

## 2. Project description

### Concept

Panda Power aims to bridge the gap between decentralized finance (DeFi) and wildlife conservation. Built on the Berachain platform, our mission is to empower users to optimize their staking rewards while contributing to the preservation of endangered species, particularly the giant panda.

By integrating automated staking processes with a donation mechanism, Panda Power creates a seamless experience for users to grow their assets while also making a positive impact on wildlife conservation. Our platform is designed for those who are not only interested in financial growth but also in making a difference in the world.

## User Authorization for Restake

To ensure a secure and user-friendly experience, Panda Power will implement a robust management system for restake authorizations.

1. **Wallet Connection:** Users will connect their crypto wallets (e.g., MetaMask, Keplr) to access the platform.
2. **Active Consent:** During the initial setup, users will provide explicit consent to authorize the automatic restaking of their rewards.
3. **Smart Contract Management:** A dedicated smart contract will handle the collection of rewards and execute the restaking process based on user permissions.

## User Interface Enhancements

- **Dashboard:** Users will have access to a personalized dashboard displaying their rewards, staking status, and authorization settings.
- **Notification System:** Users will receive notifications regarding their restake activities and performance reports.

## Objectives

1. **Financial Growth:** Provide users with the tools to maximize their staking rewards through automatic restaking and liquidity optimization strategies.
2. **Wildlife Conservation:** Support organizations focused on conserving endangered species by allocating a portion of staking rewards directly to NGOs.
3. **Community Engagement:** Foster a community of like-minded individuals who are passionate about finance and conservation, encouraging participation in both areas.
4. **Sustainability:** Ensure that our platform is sustainable in the long term, both in terms of financial viability and ecological impact.

## Target Audience

Panda Power aims to attract individuals who are actively seeking to optimize their staking rewards, enhance their income, and improve the efficiency of their liquidity provisioning (LP)

on Berachain. Our platform caters to users who are familiar with DeFi principles and are looking for straightforward ways to maximize their financial returns.

What sets Panda Power apart is our unique approach to combining financial optimization with ethical contributions to wildlife conservation. Users can benefit from automated staking and liquidity strategies while seamlessly donating a small portion of their financial performance to conservation efforts. This creates a “win-win” scenario where users can enhance their returns without additional burdens or requirements, all while making a positive impact on the environment.

## Unique Value Proposition

Panda Power stands out by combining the principles of DeFi with a strong commitment to environmental sustainability. Unlike traditional financial platforms, we prioritize user impact alongside financial returns, creating a dual benefit for our users and the planet. Our approach not only empowers individual investors but also contributes to the collective effort of wildlife conservation.

## Current Stage and Future Needs

Panda Power is in the early stages of development, and we recognize that there is still much work to be done before launching our platform. Currently, our team consists of just two members, and we are balancing this project alongside other professional commitments. To effectively progress and realize our vision, we need to expand our team and/or secure funding.

## Key Areas for Development

1. **Finalizing Mockups:** We need to create detailed designs for our user interface to ensure a smooth and engaging user experience.
2. **Completing the Proof of Concept (PoC):** Development of the PoC is essential to validate our technology and the proposed functionalities.
3. **Creating Documentation:** Comprehensive user guides and technical documentation are necessary to help users understand and navigate the platform.
4. **Preparing Materials for Future NGO Partners:** We aim to build strong partnerships with NGOs, and creating tailored documentation will facilitate these collaborations.
5. **Conducting Functional and Security Tests:** Rigorous testing is critical to ensure the reliability and safety of our platform before launch.
6. **Performing Initial Audits:** Engaging external auditors will provide assurance regarding the security and efficiency of our smart contracts.

7. **Branding Work:** Establishing a cohesive brand identity will help us communicate our mission and engage our audience effectively.
8. **Community Management and Social Media Outreach:** Building a community of testers and early adopters is crucial for feedback and initial engagement.

**We are committed to moving forward and appreciate the support of our community as we work towards these objectives.**

## 3. Core Features

### 1. Automatic Restaking

- **Inspired by Restake.app**, Panda Power automates **compounding staking rewards**, saving users time while maximizing yields through real-time reinvestment.

### 2. Fee Optimization & Yield Maximization

- Using strategies inspired by **Calculated.fi**, Panda Power optimizes **LP pool strategies** and suggests efficient **BGT validator delegations** for users, minimizing fees and boosting returns.
- A small portion of staking rewards (2-5%) is allocated to conservation efforts, balancing **financial returns** with **social impact**.

### 3. Impact Integration

- **Donations:** Automatically allocate a percentage of rewards (e.g., 2-5%) to **Pandas International**. In the future, donations may expand to other NGOs based on efficiency and impact, after careful research.
- **Transparency:** Users can track their contributions and see the real-world impact of their staking activities.

### 4. User Dashboard

- A clear, intuitive dashboard to monitor both **financial performance** and **social impact**.
- Detailed breakdown of **LP rewards**, **validator performance**, and contribution history to conservation efforts.

## Smart Contracts

## Overview

Panda Power will utilize a series of smart contracts to facilitate its operations on the Berachain platform, ensuring security, efficiency, and transparency in managing staking rewards and donations.

## Key Smart Contracts

### 1. Vault Contract:

- This contract manages the staking of \$BERA or \$BGT tokens on validators. It ensures that users' funds are securely staked, allowing for the maximization of rewards.

### 2. Split Contract for Rewards Distribution:

- A Split contract will be responsible for managing the distribution of rewards generated from staking. This contract will allocate rewards to various designated wallets, including those for project expenses and donations to beneficiary NGOs.

### 3. Multicall Contract:

- Implementing a multicall functionality will enable users to execute multiple smart contract calls in a single transaction, simplifying the claiming of rewards and reducing transaction costs.

### 4. Split for Beneficiary NGOs:

- A dedicated Split contract will manage the allocation of funds to NGOs supported by Panda Power. This contract ensures that a portion of the rewards is directly distributed to organizations focused on wildlife conservation.

## Expected Benefits

This smart contract architecture is designed to provide a modular and efficient framework for Panda Power, focusing on secure staking, transparent reward distribution, and an enhanced user experience. By utilizing these contracts, Panda Power aims to streamline operations and ensure effective management of funds.

## 4. Revenue Model

1. **Performance Fees:** Panda Power will charge a **2-5% performance fee** on staking rewards generated through automatic restaking. This will provide a steady revenue stream while maintaining competitive yields for users.
2. **NFT Sales:** Panda Power will launch **Panda-themed NFTs**, which offer staking bonuses and exclusive perks. Revenue from these NFT sales will contribute to platform growth, and ongoing royalties on secondary market sales will continue funding the project.
3. **Validator Revenue:** When Panda Power launches its own **validator**, it will collect delegation fees from users staking with it, ensuring a sustainable revenue stream.
4. **Partnerships & Sponsorships:** Collaborations with other DeFi protocols or wildlife conservation organizations could result in **sponsorships or joint ventures** that contribute to funding the project's expansion, marketing, and team.

## 5. Proof of Concept (PoC) & Technical Feasibility

To showcase the technical feasibility of **Panda Power**, we are working on a **proof of concept (PoC)** smart contract that handles both:

- **Automatic Restaking:** Deploying a basic contract on the **Berachain testnet**, automating restaking operations with real-time compounding.
- **Donation Integration:** A mechanism within the smart contract to allocate a small portion of rewards to **Pandas International** transparently.

This PoC demonstrates the core features of our protocol, ensuring technical readiness for future full deployment on Berachain's mainnet.

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## 6. Next Steps for Full Deployment

Once the proof of concept is validated, the next development stages include:

- **Integration with BGT Station** for optimized validator delegation.
- **Development of the Panda Power Dashboard** for real-time tracking of user rewards and contributions.
- **Validator Deployment:** As we scale, Panda Power will launch its own validator to further optimize staking revenues and increase its donations to wildlife causes.

## 7. How Do We Plan to Have Impact?

- **Wildlife Conservation Donations:** Panda Power will automatically direct a portion of staking rewards (initially 2-5%) to **Pandas International**.
- **Future NGO Expansion:** As the platform grows, donations will expand to support other wildlife NGOs after evaluating their **efficiency and effectiveness** in contributing to environmental sustainability.
- **Transparency and Tracking:** Users will be able to track their donations through a personal dashboard linked to a general impact dashboard. This dashboard will include:
  - **Total Donations by Period:** Users can view how much they have donated over specific timeframes.

- **Actions Taken by Beneficiary NGOs:** Regular updates on initiatives and activities conducted by the NGOs supported by Panda Power.
- **Content from NGOs:** Display specific content provided by NGOs detailing the real impact of Panda Power donations, fostering transparency and accountability.
- **Links to NGO Projects:** Direct access to the ongoing projects of the NGOs to allow users to understand the broader context of their contributions.
- **Liquidity Management:** By optimizing liquidity management strategies, Panda Power not only supports users in maximizing their financial returns but also contributes to the security of the Berachain network.

## 8. Why Berachain?

### 1. Cutting-Edge Tokenomics:

- Berachain's **tri-token model** (BERA, BGT, HONEY) offers a unique structure that balances staking, governance, and gas fees, making it ideal for **Panda Power** to operate efficiently and reward users.

### 2. Perfect Timing:

- Berachain is in its **launch phase**, meaning **early adopters** stand to benefit significantly as the ecosystem rapidly expands. Panda Power can leverage this **first-mover advantage** to build a strong community and drive impactful donations from the outset.

### 3. Thriving Ecosystem:

- As Berachain grows, so does the potential for **Panda Power** to scale with it, increasing both financial rewards and environmental impact. The blockchain's **interoperability** and focus on **DeFi innovation** create the perfect foundation for **Panda Power's mission**.

## 9. Founders

**Mandawan0x** – Digital Producer & Marketer

With extensive experience in digital production and marketing strategy, Mandawan0x plays a key role in the project's development and communication. As a Key Opinion Leader (KOL) in the French-speaking Cosmos ecosystem communities, Mandawan0x has built a strong network and influence that will help drive awareness and adoption of Panda Power.

**Ciskos** – CEO of Nuxian Labs



Ciskos brings expertise in cybersecurity and blockchain development, ensuring the technical robustness of the Panda Power platform. As a validator under the Nuxian Lab banner, Ciskos has established a strong community presence that can support the growth and sustainability of Panda Power.

Together, we leverage our community connections and expertise to create a platform that not only offers financial benefits but also contributes positively to wildlife conservation.

## 10. Roadmap

### 1. Phase 1 (Q1 2025):

- Core platform launch: automatic restaking, donations to **Pandas International**, and staking via **BGT Station**.
- Initial integration with **\$BERA** liquidity provisioning and **\$BGT validator delegation**.

### 2. Phase 2 (Q3 2025):

- Introduction of **panda-themed NFTs** for staking bonuses and exclusive perks.
- Launch of the **validator recommendation engine** for optimizing **BGT delegations**.

### 3. Phase 3 (Q1 2026):

- Expand donations to other wildlife NGOs based on research.
- Launch of advanced yield optimization for LP strategies.

### 4. Phase 4 (Q2 2026):

- Deployment of the **Panda Power Validator**, allowing the platform to further optimize staking revenues and increase donations.

## 11. Funding Request Structure

In this section, we outline our request for funding to support the development and launch of the Panda Power project. This will detail how the funds will be utilized and the anticipated impact on both the project and the broader Berachain ecosystem.

### Funding Allocation Breakdown

1. **Total Funding Requested: \$500,000.**
2. **Treasury Allocation (up to 25%):**

- Funds allocated for operational costs, including audits and essential expenses that will contribute to the success of Panda Power on Berachain.

### **3. Mainnet Allocation (minimum 70%):**

- The majority of the funding will be used for user incentives on the mainnet, aimed at fostering community engagement and growth.
- This portion may also include allocations for partnerships and integration with other protocols to boost user onboarding.

### **4. Testnet Allocation (minimum 10% and up to 15%):**

- Funds designated for retroactive rewards for users engaging with Panda Power during its testnet phase.

## **Justification for Distribution Plan**

### **1. Encouraging User Adoption:**

- The allocation focuses on rewarding users for their participation, which is crucial for building an active and engaged community. By dedicating 70% of the tokens to mainnet rewards, Panda Power aims to incentivize user activity, ultimately driving adoption and growth.

### **2. Sustainability of the Platform:**

- Allocating 20% to the treasury ensures that the project has the necessary funds to cover operational costs and ongoing development. This financial stability is vital for maintaining the platform's functionality and reliability, fostering trust among users.

### **3. Investment in Development:**

- A portion of the treasury allocation will be specifically designated for the development of business logic, back-end systems, and smart contracts. This investment is essential to ensure that the platform operates securely and efficiently, enhancing user experience and satisfaction.
- Additionally, funds will be allocated for design and storytelling efforts, which include UX design, UI design, interaction design, copywriting, and various assets necessary for a compelling user interface.

### **4. Project Management:**

- Effective project management and product leadership are critical for the successful execution of Panda Power. A portion of the budget will be allocated to ensure that there are

dedicated resources for overseeing project timelines, coordinating tasks, and aligning the development process with strategic objectives.

- The project management team will also be responsible for partnership research and relationship management with validators, the Berachain ecosystem, and future NGO and institutional partners.

#### **5. Recognition of Early Supporters:**

- The allocation of 10% for testnet rewards acknowledges the contributions of early adopters who participate in the testing phase. This not only encourages initial engagement but also provides valuable feedback that can help improve the platform before the official launch.

#### **6. Long-Term Ecosystem Growth:**

- By implementing a structured distribution plan that balances rewards for users, treasury needs, and early engagement, Panda Power is laying the groundwork for sustainable growth. This strategic approach ensures that the community is incentivized to support the project long-term, benefiting both the users and the overarching goals of wildlife conservation.

## **12. Impact Measurement:**

To assess the effectiveness and impact of the Panda Power project, we will employ several key metrics that align with our objectives of wildlife conservation and user engagement.

### **A Wildlife Conservation Impact:**

- **Total Donations:** Track the total amount donated to beneficiary NGOs over specific periods, providing transparency on financial contributions to wildlife conservation efforts.
- **Actions by NGOs:** Regularly update the community on the initiatives and actions taken by supported NGOs, highlighting the tangible outcomes of the donations.
- **Content from NGOs:** Display specific reports or content shared by NGOs detailing the real impact of Panda Power donations, fostering trust and accountability.

### **B User Engagement Metrics**

To measure user engagement and the effectiveness of the Panda Power protocol, we will focus on the following metrics:

1. **Number of Users:** Monitor the total number of registered users on the platform, tracking growth over time.

2. **Liquidity Managed:** Measure the total amount of liquidity managed through the Panda Power protocol, providing insights into the financial volume being utilized for staking and LP.
3. **New Users Gained:** Track the number of new users joining the platform over defined periods (weekly, monthly), assessing growth and user acquisition strategies.
4. **Active Users:** Evaluate the number of active users engaging with the platform on a regular basis, helping us understand retention and satisfaction.
5. **User Activity:** Analyze the frequency of staking activities, claims made, and liquidity provision actions taken by users to gauge overall engagement levels.
6. **User Feedback:** Implement mechanisms for user feedback and surveys to gather insights on user experience and satisfaction, informing future enhancements to the platform.

By integrating these metrics, Panda Power aims to not only fulfill its financial goals but also create a measurable positive impact on wildlife conservation efforts while maintaining robust user engagement.

#### 6. **Timeline:**

- Provide an estimated timeline for the use of funds and the anticipated milestones for project development and deployment.

## Conclusion

Panda Power will revolutionize the intersection of **DeFi** and **Regenerative Finance (ReFi)**, enabling users to **grow their assets** while effortlessly contributing to **wildlife conservation**. With **automated staking**, **impact donations**, and **NFT integrations**, Panda Power delivers both **financial returns** and **environmental impact**.

Join us in creating a sustainable future through decentralized finance!