



F10: Develop...

**Catalyst**
— FUND10 —

F10: Development & Infrastructure

Catalizador de proyectos**★ Darse de baja**

F10: Development & Infrastructure

⋮

SolarWise // Cardano Renewable Energy Oracle // Unleash the Power of Users and Communities powered by @energiasocial

editado

**Usted**

07/11/2023 01:18 PM · Idea #24773 · Puntos de vista 51

Answer:

The lack of a transparent and incentivized system for solar users to monetize their surplus energy generation and promote renewable energy adoption in Argentina and LATAM.

[+ Agregar etiquet...](#)[adoption](#)[blockchain](#)[business](#)[cardano](#)[dapps](#)[decentralization](#)[environmental](#)[infrastructure](#)[oracle](#)[rewarding](#)[smart-contract](#)[tokenise](#)[tokenization](#)**[GENERAL] Name and Surname of Main Applicant****Answer:**

Guillermo Lucero

[GENERAL] Email address of Main Applicant**Answer:**



F10: Develo...



Additional Applicants

Answer:

mauro.andreoli@energiasocial.co

[GENERAL] Requested funds in ADA

Answer:

75000

[GENERAL] Please specify how many months you expect your project to last (from 2-12 months)

Answer:

9

[GENERAL] Please indicate if your proposal has been auto-translated into English from another language.

Auto-translated?

No

[GENERAL] Summarize your solution to the problem (200-character limit including spaces)

Answer:

We will create a Renewable Energy Blockchain Oracle on Cardano, create and use @energiasocial energy token, to transparently track and incentivize solar energy adoption in Argentina and LATAM.

[GENERAL] Website/ GitHub repository, or any other relevant link

Link

<https://energiasocial.co>

Link 2

<https://www.linkedin.com/company/energiasocial>

Link 3

<https://txpipe.io>



F10: Develop...

OTHER ORGANIZATIONS, TECHNIQUE OR OTHERWISE.

**Answer:**

Yes

[GENERAL] If YES, please describe what the dependency is and why you believe it is essential for your project's delivery. If NO, please write "No dependencies." in this field.

Answer:

@energiasocial and @txpipe have signed a joint development agreement to explore the integration of blockchain into @energiasocial #energywithpurpose business models and help scale the impact of our social sustainable integrated strategies in Argentina and LATAM region.

By combining the expertise of @energiasocial experienced professionals in the energy sector and sustainable strategies development and @txpipe team's proficiency in Cardano blockchain technology, we make a powerful blend of knowledge and skills to this project. Our existing capabilities and successful project implementations demonstrate why we are best suited to deliver these tools and mobile apps, ensuring a seamless integration of sustainability strategies and blockchain technology to generate long term social sustainable impact.

<https://txpipe.io/>

<https://www.linkedin.com/company/txpipe/>

https://twitter.com/txpipe_tools

<https://github.com/txpipe>

[GENERAL] Will your project outputs be fully Open Source?

Answer:

No

[GENERAL] If NO, please describe which outputs are not going to be open source. If YES, please write "Project will be fully open source." in this field.

Answer:

While the project's output won't be fully open source, the application will be applied to monetize solar energy generation by leveraging local energy distribution networks and energy distribution companies. Commercial contracts between parties will enable the imple-



F10: Develop...

[METADATA] Category of Proposal**Answer:**

dApp

[METADATA] SDG rating**SDG rating:**

The project aligns with several United Nations Sustainable Development Goals (UN SDGs) and includes relevant sub-goals and Key Performance Indicators (KPIs) as follows:

1. UN SDG 7: Affordable and Clean Energy
 - a. Sub-goal: Increase the share of renewable energy in the global energy mix.
 - b. KPI: Track the percentage of solar energy injected into the distribution network.
2. UN SDG 9: Industry, Innovation, and Infrastructure
 - a. Sub-goal: Promote sustainable infrastructure development and innovation.
 - b. KPI: Measure the number of solar installations and the growth rate of renewable energy adoption.
3. UN SDG 11: Sustainable Cities and Communities
 - a. Sub-goal: Enhance energy efficiency and promote renewable energy in urban areas.
 - b. KPI: Monitor the increase in solar energy generation in residential and commercial areas.
4. UN SDG 12: Responsible Consumption and Production
 - a. Sub-goal: Promote sustainable consumption and production patterns.
 - b. KPI: Measure the reduction in carbon emissions through increased use of solar energy.
5. UN SDG 13: Climate Action
 - a. Sub-goal: Take urgent action to combat climate change and its impacts.
 - b. KPI: Monitor the reduction in greenhouse gas emissions achieved through the project.
6. UN SDG 17: Partnerships for the Goals
 - a. Sub-goal: Enhance partnerships for sustainable development.
 - b. KPI: Measure the number of collaborations with energy distribution companies and stakeholders to implement the solution.

The breakdown of the SGD rating for the proposal is as follows:



F10: Develop...

- UN SDG 7: Moderate impact
- UN SDG 12: Moderate impact
- UN SDG 13: High impact
- UN SDG 17: Moderate impact

These ratings reflect the proposal's contribution towards achieving sustainable development through renewable energy promotion, innovation, and collaboration.

[IMPACT] Please describe your proposed solution.

Answer:

Our proposed solution aims to address the lack of transparent tracking and incentivization for solar energy injection into the distribution network. We perceive this as a problem because it hinders the widespread adoption of renewable energy and limits the ability of solar users to monetize their surplus energy.

To tackle this issue, we propose developing a Renewable Energy Blockchain Oracle on the Cardano blockchain, utilizing the es-token as the native currency. This approach ensures transparency, security, and immutability of energy generation and transactions. By leveraging blockchain technology, we can accurately track and verify the amount of solar energy injected by individual users into the distribution network.

Our solution engages multiple stakeholders, including residential and commercial solar users, energy distribution companies, and the @energiasocial platform. Solar users will be incentivized to participate and expand their energy generation capacity through rewards in es-tokens. Energy distribution companies will collaborate with us to implement the solution and provide a seamless integration with their existing infrastructure.

To demonstrate the impact of our solution, we will track several key indicators. Firstly, we will monitor the increase in the share of renewable energy in the overall energy mix. By analyzing data on solar energy injection, we can quantify the positive contribution towards achieving UN SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action). Additionally, we will measure the growth rate of solar installations, the reduction in carbon emissions, and the percentage of renewable energy consumption in urban areas, highlighting the progress made towards SDG 9 (Industry, Innovation, and Infrastructure) and SDG 11 (Sustainable Cities and Communities).



F10: Develo...

to SDG 17 (Partnerships for the Goals). These engagement metrics, combined with the tangible benefits experienced by solar users, such as financial incentives and the ability to monetize surplus energy, will serve as strong evidence of the impact and effectiveness of our solution.

Through our proposed solution, we aim to create a transparent and incentivized ecosystem that promotes renewable energy adoption, empowers solar users, and contributes to a sustainable future.

[IMPACT] How does your proposed solution address the challenge and what benefits will this bring to the Cardano ecosystem?

Answer:

Our solution addresses the challenge of the developer ecosystem by providing a platform for developers to build applications and services on the Cardano blockchain. By creating a Renewable Energy Blockchain Oracle and integrating it with the Cardano ecosystem, it opens up opportunities for developers to create innovative solutions within the renewable energy sector. This not only expands the use cases for Cardano but also attracts developers who are passionate about sustainability and renewable energy.

Benefits for the Cardano ecosystem include:

1. Developer Engagement: The project will attract developers interested in renewable energy and sustainable solutions to the Cardano ecosystem. This increases the developer community and fosters collaboration, knowledge sharing, and innovation.
2. Use Case Expansion: By integrating the Renewable Energy Blockchain Oracle, the Cardano ecosystem gains a valuable use case within the renewable energy sector. It demonstrates the versatility and applicability of Cardano's blockchain technology beyond traditional financial applications.
3. Adoption and Network Growth: The project incentivizes solar energy generation, which encourages more individuals and businesses to adopt renewable energy practices. This, in turn, contributes to the growth of the Cardano network as more participants engage with the blockchain for energy-related transactions.
4. Reputation and Visibility: The project positions Cardano as a blockchain platform that supports sustainable and environmentally conscious initiatives. This enhances Cardano's reputation and visibility as a platform that addresses real-world



F10: Develo...

The impact of the project on the Cardano ecosystem can be quantified through various metrics:

1. Developer Engagement: Measure the increase in the number of developers actively building applications and services on Cardano related to renewable energy.
2. Community Growth: Monitor the growth in the number of participants engaging with the Cardano ecosystem through the @energiasocial platform, including solar users, energy distribution networks, and energy distribution companies.
3. Transaction Volume: Track the volume of energy-related transactions conducted on the Cardano blockchain, indicating the adoption and usage of the Renewable Energy Blockchain Oracle.
4. Environmental Impact: Evaluate the reduction in carbon emissions achieved through increased renewable energy generation and adoption facilitated by the project.

By achieving these quantifiable metrics, the project will bring people to the Cardano community, strengthen the ecosystem by expanding use cases, solve the challenge of incentivizing renewable energy generation, and highlight Cardano's commitment to sustainable solutions.

While it is challenging to provide precise numbers without detailed market analysis and project-specific data, we can set realistic expectations for user adoption and usage/transactions within a reasonable timeframe after the project completes. Please note that these are approximate figures and can vary based on various factors, including market conditions, user adoption rates, and regulatory environments.

1. User Adoption: It is reasonable to expect a gradual increase in user adoption over time as awareness of the Renewable Energy Blockchain Oracle and its benefits spread. Within the first year of completion, aiming for a few hundred to a few thousand active users engaging with the platform would be a realistic target.
2. Usage/Transactions: Initially, usage and transaction volume may be relatively low, primarily driven by early adopters and pilot projects. However, as the platform gains traction and more solar users and energy distribution companies join, the transaction volume is expected to grow steadily. Within the first year, achieving tens of thousands to hundreds of thousands of transactions would be a realistic target.



F10: Develop...

frameworks, and the overall interest in renewable energy and blockchain solutions. Continued efforts in user engagement, partnerships, and community building will be crucial to drive adoption and usage within the specified timeframe.

Initial local pilot test scenario:

Under the legislation 24747 for distributed generation and considering the population of Cordoba capital, Argentina, along with the financing line for @energiasocial users and assuming a conversion rate of 3%, let's explore a potential developing scenario for user adoption and usage/transactions within a reasonable timeframe after the project completes.

Population of Cordoba Capital, Argentina: As of 2021, the estimated population of Cordoba capital is approximately 1.4 million residents.
User Adoption Scenario: Assuming a conversion rate of 3% among the population of Cordoba capital, we can estimate approximately 42,000 initial users engaging with the @energiasocial platform after the project completes in an initial local pilot test of a period of 2 years.

Usage/Transactions Scenario: The usage and transaction volume will depend on factors such as the number of solar installations, energy generation capacity, and market conditions. Assuming an average of 2,000 kWh generated per user per year (considering residential and small commercial installations), we can estimate an initial energy injection of approximately 84,000,000 kWh annually. In terms of transactions, assuming an average of 50 transactions per user per year (including energy rewards, token exchanges, and other activities), we can estimate an initial transaction volume of 2,100,000 transactions per year.

These estimates are based on the assumed conversion rate and hypothetical assumptions. The actual user adoption and usage/transaction numbers may vary based on factors such as consumer interest, awareness campaigns, financing accessibility, and market dynamics. Continued efforts in marketing, financing options, and user engagement will play a crucial role in driving adoption and increasing usage/transactions in the region.

It's important to note that these numbers are speculative and subject to various external factors. Real-world implementation and market conditions will ultimately determine the actual user adoption and usage/transaction numbers achieved.



F10: Develop...

[IMPACT] How do you intend to measure the success of your project?

Answer:

To measure the success of our project, we will employ a combination of quantitative and qualitative metrics to assess its benefits for the Cardano ecosystem. Here are some aspects we will consider:

1. User Adoption: We will track the number of users engaging with the platform, including solar users, energy distribution networks, and energy companies. Increasing user adoption indicates the project's relevance and attractiveness within the Cardano ecosystem.
2. Transaction Volume: Monitoring the transaction volume, such as the number of energy-related transactions and token exchanges, will help gauge the level of activity and utilization of the Renewable Energy Blockchain Oracle. Increased transaction volume reflects the project's impact on Cardano's productivity.
3. User Feedback and Satisfaction: Gathering qualitative data through user surveys, feedback forms, and community engagement will provide insights into user satisfaction, preferences, and opinions. Positive feedback and high user satisfaction indicate the value and effectiveness of the project.
4. Community Growth: Measuring the growth of the @energiasocial community, including the number of participants, contributors, and collaborations, demonstrates the project's ability to attract and engage stakeholders. Community growth strengthens Cardano's ecosystem and fosters a collaborative environment.
5. Environmental Impact: Evaluating the reduction in carbon emissions achieved through increased solar energy generation facilitated by the project will demonstrate its positive contribution to sustainability. Assessing the project's alignment with environmental goals showcases its long-term benefits.

The measures outlined above are realistic as they align with the objectives of the project and can be tracked and assessed through data collection and analysis. Quantitative metrics such as user adoption and transaction volume provide tangible indicators of success, while qualitative feedback and user satisfaction surveys capture the overall user experience.

In the short term, the innovation will enhance Cardano's productivity by expanding the use cases and attracting new participants to the



F10: Develo...

In the long term, the project's focus on renewable energy and sustainable practices aligns with global trends and initiatives. By providing a transparent and incentivized platform, the project promotes Cardano's growth as a leading blockchain ecosystem supporting green energy solutions. The long-term benefits include a broader user base, ecosystem expansion, and strengthened partnerships, positioning Cardano as a key player in the sustainable development space.

Ultimately, the success of the project will be determined by the achievement of its objectives, the positive impact it has on users and the environment, and its ability to contribute to Cardano's productivity and growth in both the short and long term.

[IMPACT] Please describe your plans to share the outputs and results of your project?

Answer:

Our plans to share the outputs and results of the project involve a multi-faceted approach to disseminate information, engage stakeholders, and maximize the project's impact. Here are our plans to spread the project's outputs over a reasonable timescale:

1. Documentation and Reports: We will prepare comprehensive documentation and reports detailing the project's objectives, methodology, implementation process, and outcomes. These documents will be made publicly available through project websites, online platforms, and relevant repositories.
2. Publications and Case Studies: We intend to publish research papers, articles, and case studies in academic journals, industry publications, and relevant forums. These publications will provide insights into the project's findings, impact, and lessons learned, targeting researchers, industry professionals, and stakeholders interested in renewable energy and blockchain applications.
3. Conferences and Workshops: We will actively participate in conferences, seminars, and workshops related to renewable energy, blockchain, and sustainability. Through presentations and workshops, we will share our project's outputs, impact, and opportunities with a diverse audience of experts, practitioners, and policymakers.
4. Stakeholder Engagement: We will engage with stakeholders, including energy distribution networks, energy companies, policymakers, and local communities. Through targeted meetings, workshops, and presentations, we will share the



F10: Develo...

3. ~~Online Presence and Social Media.~~ We will establish an online presence through project websites, social media channels, and online forums. Regular updates, blog posts, and interactive content will be shared to create awareness, showcase project progress, and invite engagement from the wider community.

Regarding the results generated from the project, we will utilize them in further research and development activities in several ways:

1. Iterative Improvement: The project results will serve as valuable insights to refine and enhance the Renewable Energy Blockchain Oracle. Feedback and data collected during the project will be analyzed and utilized to optimize the solution, addressing any identified challenges or areas for improvement.
2. Future Projects and Partnerships: The results will inform future research and development initiatives related to renewable energy, blockchain, and sustainable technologies. The findings and lessons learned will guide the formulation of new projects, collaborations, and partnerships to advance the field and explore additional use cases.
3. Knowledge Sharing and Collaboration: The project results will be shared with research institutions, industry partners, and academic communities to contribute to the collective knowledge and foster collaboration. Findings will be presented in conferences, workshops, and meetings to facilitate discussion and collaboration with other researchers and organizations working in related areas.

By effectively sharing the outputs, impact, and opportunities arising from the completed project, we aim to maximize its reach, influence, and potential for further research and development activities.

[CAPABILITY/ FEASIBILITY] What is your capability to deliver your project with high levels of trust and accountability?

Answer:

@energiasocial and @txpipe have signed a joint development agreement to explore the integration of blockchain into @energiasocial #energywithpurpose business models and help scale the impact of our social sustainable integrated strategies in Argentina and LATAM region.



F10: Develo...

KNOWLEDGE OF BLOCKCHAIN TECHNOLOGY, ARE HIGHLY SUITED FOR THE TASK and challenges of delivering this project. Here's why our existing capabilities make us the best fit:

1. Energy Sector Expertise: The @energiasocial team's experience in the energy sector brings deep knowledge and understanding of renewable energy generation, distribution, and market dynamics. We have a proven track record of successfully navigating the complexities of the energy industry, enabling us to design and implement effective solutions.
2. Blockchain Proficiency: The @txpipe developer team possesses extensive expertise in blockchain technology, including a masterful understanding of the Cardano blockchain. With a demonstrated history of developing and deploying blockchain solutions, we have the technical capabilities to create and integrate the Renewable Energy Blockchain Oracle effectively.
3. Track Record: Both the @energiasocial and @txpipe teams have a track record of delivering successful projects in their respective fields. We have a history of executing initiatives with precision, meeting deadlines, and delivering high-quality results. Our past achievements demonstrate our ability to take on complex tasks and overcome challenges.
4. Collaborative Approach: Our teams are committed to fostering collaboration and partnership. We value open communication, active engagement with stakeholders, and an inclusive approach to problem-solving. We believe in actively involving the community and incorporating feedback throughout the project lifecycle.

To demonstrate our trustworthiness in managing funds properly, we have established the following steps and processes:

1. Transparent Financial Management: We will maintain transparent financial practices, keeping clear records of all project-related expenses, funding sources, and financial transactions. Regular financial reports and audits will be conducted to ensure accountability and compliance.
2. Governance and Oversight: We will establish a robust governance structure to monitor and manage funds effectively. This includes implementing internal controls, establishing financial policies and procedures, and ensuring proper oversight of financial activities by qualified professionals.
3. Accountability and Reporting: We will provide regular updates and reports on the use of funds, project progress, and financial performance. Transparency will be a key principle in our



F10: Develo...

4. ~~Compliance with Regulations.~~ We will adhere to relevant financial regulations, including those governing fundraising, spending, and reporting. Our team will work closely with legal advisors to ensure compliance with applicable laws and regulations throughout the project.

These steps and processes demonstrate our commitment to responsible financial management and our ability to handle funds with integrity and accountability. We understand the importance of proper financial management and are dedicated to earning and maintaining the trust of our stakeholders.

<https://energiasocial.co/>
<https://twitter.com/energiasocialco>
<https://www.linkedin.com/company/energiasocial/>
<https://github.com/energiasocial>

<https://txpipe.io/>
<https://www.linkedin.com/company/txpipe/>
https://twitter.com/txpipe_tools
<https://github.com/txpipe>

[CAPABILITY/ FEASIBILITY] What are the main goals for the project and how will you validate if your approach is feasible?

Answer:

Main Goals for the Project:

1. Goal: Enable transparent tracking and incentivization of solar energy injection.
 - a. Objective: Develop and implement the Renewable Energy Blockchain Oracle to accurately track and verify the amount of solar energy injected into the distribution network.
 - b. Validation: Measurement of the accuracy and reliability of energy tracking and verification processes through testing and auditing. Verification of transparent incentives and rewards distribution to solar energy producers.
2. Goal: Promote renewable energy adoption and community engagement.
 - a. Objective: Create a user-friendly interface for solar users to monitor their energy generation, track rewards, and participate in the @energiasocial community.



F10: Develop...

- active community participation.
3. Goal: Facilitate secure and efficient transactions using es-token.
 - a. Objective: Integrate the @energiasocial platform's native token, es-token, for seamless transactions, exchange, and redemption of rewards and incentives.
 - b. Validation: Monitoring of transaction volume, token utilization, and user feedback on the ease and efficiency of token-based transactions.
 4. Goal: Contribute to the growth of the Cardano ecosystem and renewable energy sector.
 - a. Objective: Collaborate with energy distribution networks, energy companies, and stakeholders to promote the adoption of the Renewable Energy Blockchain Oracle on the Cardano blockchain.
 - b. Validation: Measurement of the number of collaborations, partnerships, and integration efforts with energy industry players. Assessment of the project's impact on renewable energy generation and Cardano ecosystem growth.

The goals and objectives of the project will be measured and validated through a combination of quantitative and qualitative methods. Quantitative measures include tracking transaction volume, energy generation, user adoption rates, and growth in collaborations. Qualitative measures will involve user feedback surveys, community engagement metrics, and user satisfaction assessments.

Regarding the implementation approach, the project will follow a phased development process. This will include activities such as smart contract development, integration with the Cardano blockchain, development of the user interface, implementation of the oracle, rigorous testing, and security audits. The project team will adhere to best practices in software development, agile methodologies, and thorough quality assurance processes to ensure a successful implementation.

[CAPABILITY/ FEASIBILITY] Please provide a detailed breakdown of your project's milestones and each of the main tasks or activities to reach the milestone plus the expected timeline for the delivery.

Answer:

Project Milestones and Timeline:

- Milestone 1: Project Initiation and Planning



- plan.
- Timeline: 2 weeks
 - Success Criteria: Completed project plan, defined objectives, and finalized team roles.
 - Milestone 2: Blockchain Infrastructure Setup
 - Activities: Set up the Cardano blockchain environment, including nodes, wallets, and smart contract development tools.
 - Timeline: 1 week
 - Success Criteria: Functioning blockchain infrastructure and development environment.
 - Milestone 3: Smart Contract Development
 - Activities: Design and develop smart contracts for the Renewable Energy Blockchain Oracle and es-token functionalities.
 - Timeline: 4 weeks
 - Success Criteria: Completed smart contracts, passed security audits, and verified functionality.
 - Milestone 4: User Interface Development
 - Activities: Design and develop a user-friendly interface for solar users to track energy generation, rewards, and engage with the @energiasocial community.
 - Timeline: 6 weeks
 - Success Criteria: User interface prototype, integrated with blockchain functionalities, and tested for usability.
 - Milestone 5: Oracle Integration and Testing
 - Activities: Integrate the Oracle component to track and verify solar energy injection into the distribution network. Conduct rigorous testing and simulation to ensure accuracy and reliability.
 - Timeline: 4 weeks
 - Success Criteria: Successfully integrated Oracle, accurate tracking and verification of energy injection, and passed testing criteria.
 - Milestone 6: Token Integration and Transactions
 - Activities: Integrate es-token into the platform, enable seamless transactions, token exchanges, and redemption of rewards and incentives.
 - Timeline: 3 weeks
 - Success Criteria: Completed token integration, tested transactions, and functional reward distribution mechanism.
 - Milestone 7: Collaboration and Partnerships
 - Activities: Engage with energy distribution networks, energy companies, and stakeholders for collaboration and integration efforts.
 - Timeline: Ongoing throughout the project duration



Project Management Approach:

The project will follow an agile project management approach to ensure flexibility and adaptability to changing requirements. Key steps in the project management plan include:

1. Project Kickoff: Conduct an initial meeting to align project objectives, roles, and responsibilities with the team.
2. Iterative Development: Break down the project into sprints, each lasting 2-4 weeks, focusing on specific deliverables and milestones.
3. Daily Stand-ups: Hold regular short meetings to discuss progress, challenges, and next steps.
4. Ongoing Communication: Maintain open communication channels for continuous feedback, updates, and addressing any project-related issues.
5. Quality Assurance: Implement rigorous testing, security audits, and quality assurance processes to ensure reliable and secure functionalities.
6. Stakeholder Engagement: Regularly communicate progress, milestones, and updates to stakeholders, seeking their input and involvement throughout the project.

Projected Cost:

The projected cost for each milestone will depend on various factors, including team size, development efforts, infrastructure requirements, and project duration. A detailed budgetary analysis can be provided separately, considering resource allocation, development hours, infrastructure costs, and any additional expenses.

The overall project will be implemented with a focus on efficiency, collaboration, and continuous improvement. Regular project meetings, progress tracking, and milestone reviews will ensure timely delivery, adherence to project objectives, and effective project management. Following a detailed plan for execution.

Project Implementation Plan:

1. Project Initiation:
 - a. Define project objectives, scope, and deliverables.
 - b. Identify key stakeholders and establish communication channels.
 - c. Assemble the project team, assign roles, and responsibilities.
 - d. Develop a detailed project plan, including timelines, milestones, and resources.
2. Requirements Gathering and Analysis:

F10: Develop...

- b. Analyze and document functional and technical specifications.
 - c. Identify integration points and dependencies with existing systems.
- 3. Design and Architecture:
 - a. Design the overall architecture of the Renewable Energy Blockchain Oracle system.
 - b. Define the structure and logic of the smart contracts and token functionalities.
 - c. Create wireframes and design the user interface for the @energiasocial platform.
- 4. Development and Testing:
 - a. Develop the smart contracts for the Renewable Energy Blockchain Oracle and es-token functionalities.
 - b. Implement the user interface according to the design specifications.
 - c. Conduct comprehensive testing, including unit testing, integration testing, and security testing.
 - d. Iterate on development based on feedback and test results.
- 5. Oracle Integration and Testing:
 - a. Integrate the Oracle component to track and verify solar energy injection.
 - b. Conduct rigorous testing and simulations to ensure accurate tracking and verification.
 - c. Perform audits to ensure the security and reliability of the Oracle.
- 6. Token Integration and Transactions:
 - a. Integrate es-token into the @energiasocial platform for seamless transactions.
 - b. Develop functionalities for token exchanges, rewards distribution, and incentives.
 - c. Test the token integration and transactions to ensure efficiency and reliability.
- 7. User Interface Development:
 - a. Finalize the design and user experience of the @energiasocial platform.
 - b. Develop the front-end and back-end components of the user interface.
 - c. Implement user-friendly features and functionalities for solar users.
- 8. Collaboration and Partnerships:
 - a. Engage with energy distribution networks, energy companies, and stakeholders for collaboration.
 - b. Conduct integration efforts with partners to enable seamless interaction with the energy distribution network.



F10: Develop...



Oracle.

[CAPABILITY/ FEASIBILITY] Please describe the deliverables, outputs and intended outcomes of each milestone.

Answer:

Milestone 1: Project Initiation and Planning

Deliverables:

- Project plan outlining objectives, scope, timeline, and resources.
- Defined roles and responsibilities for team members.
- Documentation of stakeholder communication channels.

Outputs:

- Clear understanding of project objectives and scope.
- Established project team and communication structure.

Intended Outcomes:

- Alignment on project goals and expectations.
- Efficient project coordination and communication.

Measurement of Progress:

- Completion of the project plan and stakeholder communication documentation.
- Established roles and responsibilities for team members.

Milestone 2: Blockchain Infrastructure Setup

Deliverables:

- Configured Cardano blockchain nodes, wallets, and development environment.
- Documentation on the setup process and infrastructure configuration.

Outputs:

- Functioning Cardano blockchain infrastructure for development and deployment.

Intended Outcomes:

- Availability of a stable blockchain environment for development and testing.

Measurement of Progress:

- Successful setup and configuration of Cardano blockchain nodes and wallets.
- Documentation of the infrastructure setup process.

Milestone 3: Smart Contract Development

Deliverables:

- Developed smart contracts for the Renewable Energy Blockchain Oracle and es-token functionalities.
- Documentation of the smart contract specifications and codebase.

F10: Develo...

functionality.

Intended Outcomes:

- Ability to track and verify solar energy injection.
- Seamless token transactions and rewards distribution.

Measurement of Progress:

- Completed smart contracts with passed security audits.
- Verification of the functionality of the smart contracts through testing.

Milestone 4: User Interface Development

Deliverables:

- Designed and developed user-friendly interface for the @energiasocial platform.
- Wireframes, prototypes, and visual assets for the user interface.

Outputs:

- User interface that allows solar users to monitor energy generation, track rewards, and engage with the @energiasocial community.

Intended Outcomes:

- Enhanced user experience and engagement.
- Accessible platform for solar users to interact with the project's functionalities.

Measurement of Progress:

- Completed user interface prototype.
- Feedback and satisfaction surveys from users regarding the interface.

Milestone 5: Oracle Integration and Testing

Deliverables:

- Integrated Oracle component to track and verify solar energy injection.
- Documentation on the integration process and verification mechanisms.

Outputs:

- Functional Oracle component for accurate energy tracking and verification.

Intended Outcomes:

- Reliable and transparent tracking of solar energy injection.
- Validation of energy injection through rigorous testing.

Measurement of Progress:

- Successful integration of the Oracle component.
- Verified accuracy of energy tracking and injection validation.

Milestone 6: Token Integration and Transactions

Deliverables:

- Integrated es-token into the @energiasocial platform.



- Documentation on token integration and transaction processes.

Outputs:

- Functioning token integration and transaction mechanisms within the platform.

Intended Outcomes:

- Seamless and secure token transactions.
- Effective distribution of rewards and incentives.

Measurement of Progress:

- Completed token integration with tested transaction functionalities.
- Validated reward distribution mechanism.

Milestone 7: Collaboration and Partnerships**Deliverables:**

- Established collaborations and partnerships with energy distribution networks, energy companies, and stakeholders.
- Documentation on the collaborations and integration efforts.

Outputs:

- Active collaborations and partnerships promoting the adoption of the Renewable Energy Blockchain Oracle.

Intended Outcomes:

- Increased adoption of the project within the energy sector.
- Integration of the project's functionalities with industry players.

Measurement of Progress:

- Number of collaborations and partnerships established.
- Integration efforts and successful collaborations with key stakeholders.

To track the project's progress, the following measures will be utilized:

- Completion of deliverables and documentation for each milestone.
- Stakeholder feedback and satisfaction surveys.
- Milestone reviews and progress reports.
- User adoption metrics, such as the number of active users and transactions.
- Feedback from energy distribution networks, energy companies, and stakeholders involved in collaborations and partnerships.

These measurement approaches will provide insights into the project's progress, user satisfaction, adoption rates, and successful outcomes achieved at each milestone.



tained budget breakdown of the proposed work and resources.

Answer:

Budget Breakdown:

1. Project Initiation and Planning: \$5,000
 - a. Project management and coordination
 - b. Stakeholder engagement
 - c. Documentation and reporting
2. Blockchain Infrastructure Setup: \$3,000
 - a. Cardano blockchain nodes and wallets setup
 - b. Infrastructure hosting costs (if applicable)
 - c. Configuration and testing
3. Smart Contract Development: \$15,000
 - a. Smart contract development
 - b. Security audits and code reviews
 - c. Documentation and specifications
4. User Interface Development: \$10,000
 - a. UI/UX design and development
 - b. Front-end and back-end development
 - c. User testing and feedback incorporation
5. Oracle Integration and Testing: \$8,000
 - a. Oracle component integration
 - b. Testing and simulation
 - c. Auditing and validation
6. Token Integration and Transactions: \$10,000
 - a. Token integration and smart contract development
 - b. Transactions and exchange functionalities
 - c. Rewards and incentive mechanisms
7. Collaboration and Partnerships: \$7,000
 - a. Stakeholder engagement and partnerships development
 - b. Integration efforts with energy distribution networks and companies
 - c. Legal and contractual services (if required)
8. Publicity/Marketing/Promotion/Community Engagement: \$7,000
 - a. Marketing campaigns and materials
 - b. Community engagement events and initiatives
 - c. Online presence and social media management
9. Project Management: \$5,000
 - a. Project coordination and oversight
 - b. Reporting and progress updates
 - c. Team communication and collaboration tools
10. Documentation and Reporting: \$5,000
 - a. Project documentation and reports
 - b. Technical documentation



F10: Develop...

Total Budget: \$75,000

If the cost of the project exceeds the funding request, alternative sources of funding could include seeking grants or sponsorships from renewable energy organizations, applying for blockchain-specific funding programs, or engaging in crowdfunding campaigns to supplement the budget.

It's important to note that the budget breakdown is an estimate and can vary depending on specific resource requirements, hourly rates, and any additional expenses associated with third-party services or hardware/software licenses. The budget should be reviewed and adjusted based on the actual cost quotations and market rates at the time of project execution.

[RESOURCES & VALUE FOR MONEY] Who is in the project team and what are their roles?

Answer:

@energiasocial and @txpipe have signed a joint development agreement to explore the integration of blockchain into @energiasocial #energywithpurpose business models and help scale the impact of our social sustainable integrated strategies in Argentina and LATAM region.

By combining the expertise of @energiasocial experienced professionals in the energy sector and sustainable strategies development and @txpipe team's proficiency in Cardano blockchain technology, we make a powerful blend of knowledge and skills to this project. Our existing capabilities and successful project implementations demonstrate why we are best suited to deliver these tools and mobile apps, ensuring a seamless integration of sustainability strategies and blockchain technology to generate long term social sustainable impact.

<https://energiasocial.co/>
<https://twitter.com/energiasocialco>
<https://www.linkedin.com/company/energiasocial/>
<https://github.com/energiasocial>

<https://txpipe.io/>
<https://www.linkedin.com/company/txpipe/>
https://twitter.com/txpipe_tools
<https://github.com/txpipe>



F10: Develop...

the project represent value for money for the Cardano ecosystem?

Answer:

The cost of the project represents value for money for the Cardano ecosystem due to several factors:

1. Expertise and Quality: The costs reflect the involvement of experienced professionals in the energy sector and blockchain technology. The @energiasocial team and @txpipe developer team bring a high level of expertise, ensuring the quality and effectiveness of the project's deliverables.
2. Innovative Solution: The project introduces a unique solution by combining renewable energy generation and blockchain technology. The costs reflect the research, development, and implementation efforts required to create a reliable and secure Renewable Energy Blockchain Oracle on the Cardano blockchain.
3. Long-Term Sustainability: The project aims to promote renewable energy adoption and contribute to the growth of the Cardano ecosystem. The costs include activities related to collaborations, partnerships, and community engagement, ensuring the project's long-term sustainability and impact.

The costs described in the budget breakdown are determined based on various factors, including:

- Resource Requirements: The number of team members, their expertise, and the effort required for each milestone.
- Market Rates: Hourly rates and market trends for professionals with expertise in energy, blockchain, development, and design.
- Development Efforts: The complexity and time required for tasks such as smart contract development, UI/UX design, integration, and testing.
- Additional Expenses: Any necessary third-party services, legal or contractual support, marketing materials, and infrastructure hosting.

The costs are carefully considered to ensure that the project receives adequate funding to deliver the intended outcomes and achieve the defined milestones. The value for money lies in the project's potential to contribute to the Cardano ecosystem, promote renewable energy, and create a sustainable and transparent platform for energy users. The costs reflect the investment needed to develop a robust and impactful solution that aligns with the goals and values of the Cardano community.



F10: Develo...

and also that data in the submission form and other data provided by the project team during the course of the project will be publicly available.

Answer:

I Accept

Añadir Ideas vinculadas<https://energiasocial.co> ^

@energiasocial #usuariogenerator

We are a renewable energy social business. Bringing solar energy solutions for your home and business. Take control of your energy cost, become a #usergenerator. Join the network with purpose of
@energiasocial

<https://ar.linkedin.com/company/energiasocial> ^

@EnergiaSocialAr | LinkedIn

@EnergiaSocialAr | 1,494 followers on LinkedIn. Una Empresa Social de Energía Renovable | 'Change comes from within the system'

Muhammad Yunus A social enterprise is one that has a positive impact on the environment or society and, at the same time, is profitable as a business. According to Yunus, a social enterprise is a non-dividend organization that exists to address a social problem.

Investors can recover their investment but not get rich and therefore the benefits are reinvested in the organization so as not to divert the social mission of the company.



F10: Develop...



<https://txpipe.io/> ^

TxPipe.io

TxPipe.io

Open-source software for a decentralized world.



<https://www.linkedin.com/company/txpipe/> ^

[TxPipe | LinkedIn](#)

TxPipe | 120 followers on LinkedIn. We believe that blockchain adoption can be accelerated by improving developer experience. | Open-source software for a decentralized world. We believe that blockchain adoption can be accelerated by improving developer experience. We develop blockchain tools, leveraging the open-source community and its methodologies.



https://twitter.com/txpipe_tools ^

X (formerly Twitter)



F10: Develop...

<https://github.com/txpipe>

GitHub

TxPipe

Open Source Blockchain Tools. TxPipe has 24 repositories available.
Follow their code on GitHub.

<https://twitter.com/energiasocialco>

X (formerly Twitter)

<https://github.com/energiasocial>

GitHub

[energiasocial - Overview](#)

From @EnergiaSocialAr & @VentusGlobal, a renewable energy social company is born with more than 3000MW installed and presence in 4 countries in LATAM. - energiasocial



< Submit proposals



< Finalize



< Community Review



F10: Develo...

 < Governance < Archive

Votos netos o...



★ 1



≡ Comentarios

⬇ El más reciente primero ▾

                 

Publique un comentario para iniciar una discusión. @menciona a alguien para que se involucre



Enviarme una notificación por correo electrónico sobre cualquier actividad relacionada con esta idea



Anotar este comentario

Enviar comentario