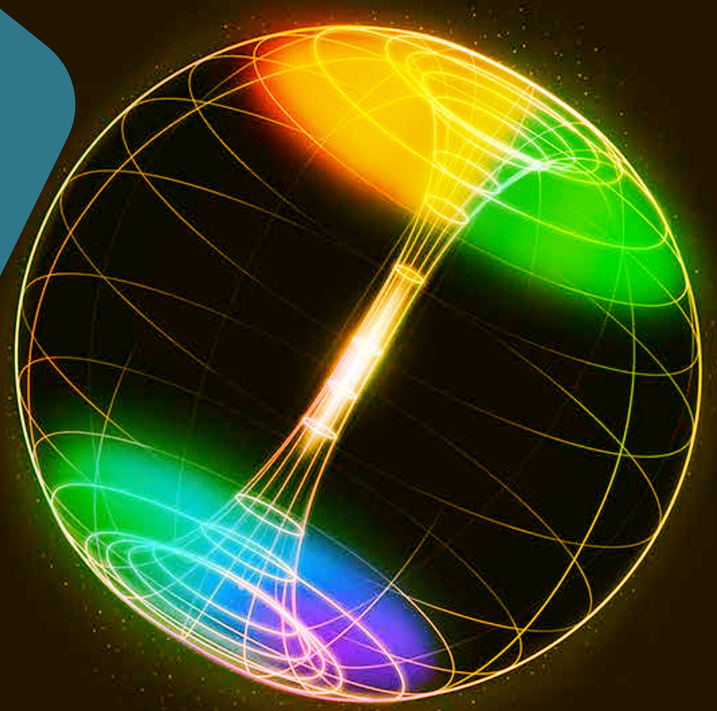
ecolarium

Blockchain Based Climate Platform



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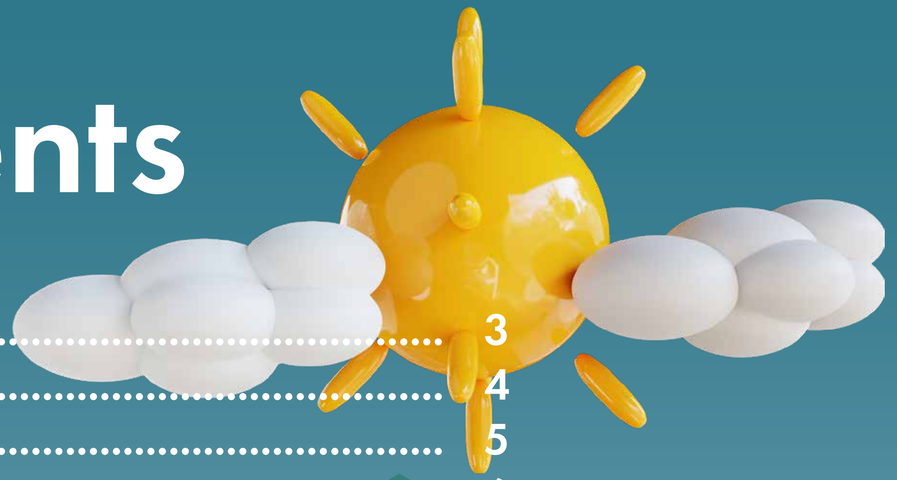

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What is Ecolarium?

- Ecolarium is a blockchain based, inventive carbon zero climate platform which pioneers in providing business and technology solutions related to climate change. The platform is established on ReFi (Regenerative Finance) principles which adds a trailblazing quality in building a clean, widely accessible and transparent future for everyone.

- Ecolarium enables its users to filter and monitor carbon offset projects like renewable energy plants and forestation around the world and take part in these projects in order to receive a portion of the value created. The energy created and sold is tracked thanks to the Takeep API protocol which allows real time data for every project. Both the farms of energy projects and their awards are run in stable coins and therefore, the volatility of a crypto asset is avoided.

- In addition, you can buy the carbon credit NFT'S produced on these energy plants and trade them on the platform. If needed, you can claim the NFT and turn it into a carbon credit certificate for your business needs.

What Does Ecolarium Do?

Ecolarium:

- Enables everyone to take part in clean energy projects around the world and participate in growing renewable energy plants globally without a barrier of having high costs. You can stake a dollar or a million dollars and get the same rate of return. Thus making lucrative clean energy sector accessible for all!

- Helps the MRV process of various projects in order to receive carbon credit certificates.

- Provides the necessary market to buy and sell carbon credits as NFT's

Ecolarium Project Scope

1. Electricity Generation

2. Transportation and Logistics

3. Industrial Facilities

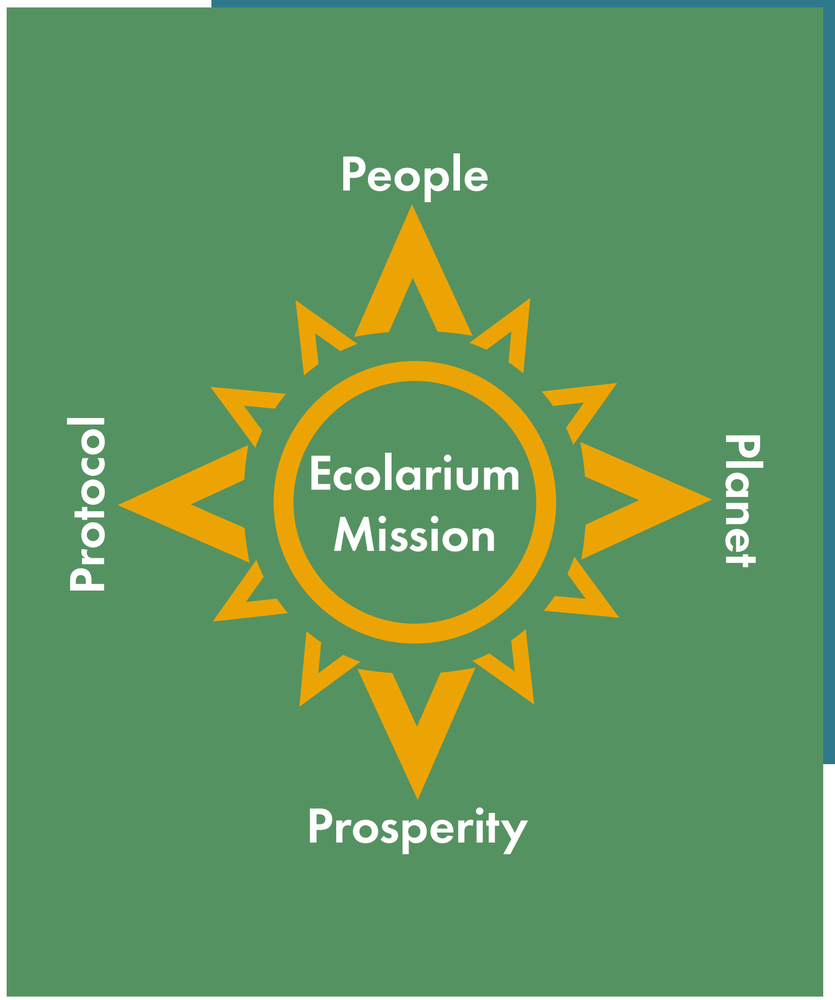
4. Residential and Living Areas

5. Climate Change and R&D

Mission

The Ecolarium mission is based on 4P's which are people, planet, prosperity and protocol.

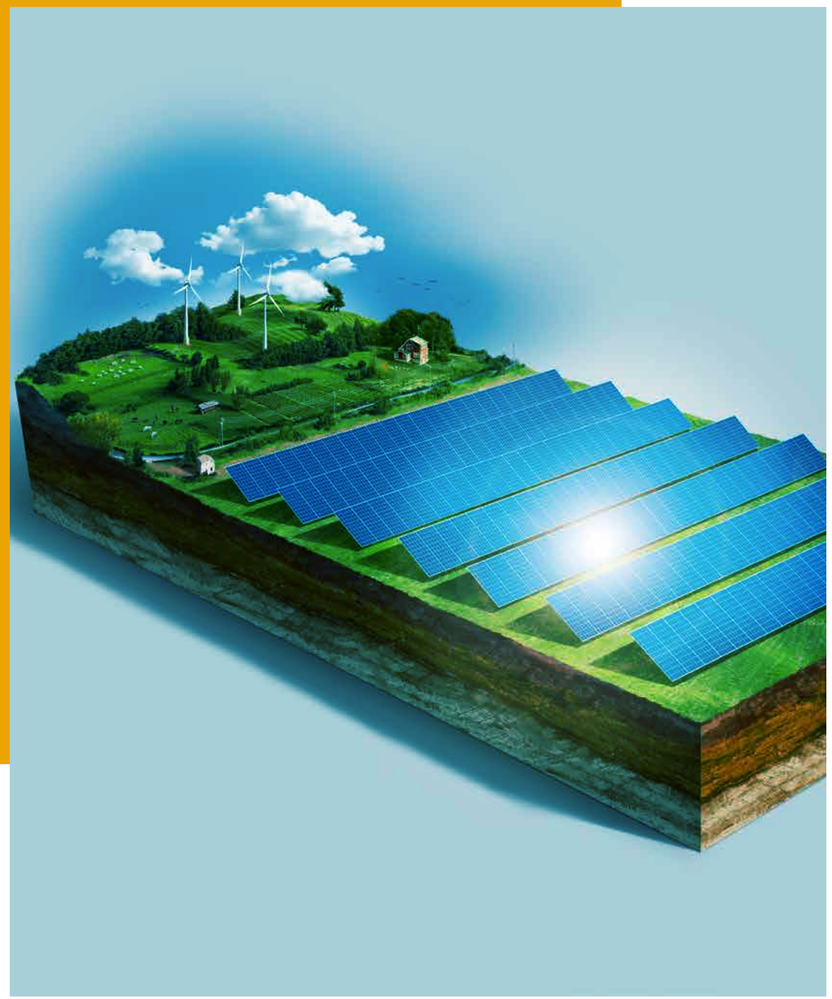
Ecolarium platform is built to advocate change for our **planet** and create **prosperity** without barriers for its users while running on blockchain based **protocols** developed to shape our approach to clean energy and carbon credits whilst being run by the **people** as it is built as a DAO.



Team

Ecolarium team consists of professional who has immense experience in their fields. On one hand there is experience in solar panel production and more than 3.000.000 sqm of solar panels has been laid to this date. On the other hand decentralized finance platforms and more than 5 different blockchain based projects has been launched. The team is spearheaded by Ismail Hakkı Karaca, Hakkı Tayfur Aslan, Ali Osman Çıbıkdiken, Ali Çiftçi and Harun Sarikurt. There is also a list of advisors that we will be employing including but not limited to: Komatsu Shigeki (Panasonic - Japan), Anthony Morgan (Carbon Free Group - United Kingdom), Daniel Roca (BayWa Solar - Spain).

- İsmail Hakkı Karaca / CEO
- Hakkı Tayfur Aslan / COO
- Ali Çiftci / CBO
- Emir Özyılmaz / CTO
- Harun Sarıkurt / CMO
- Anthony Morgan / CIO
- Ali Osman Çıbıkdiken / Co-Founder



Why Ecolarium?

- Climate change is real. The need for clean energy is a must.

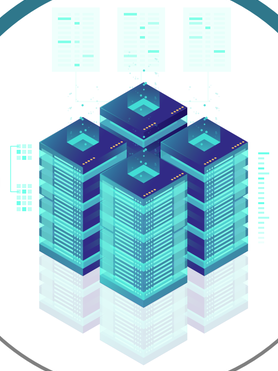
- With the Paris Climate Agreement signed on 2016, more and more steps will be taken to reduce carbon footprints.

- European Union is starting carbon taxing as of January 1st, 2023 and carbon offsetting is becoming more and more necessary for trade.

- Ecolarium caters to increasing clean energy production and providing carbon credit certificates for all uses. Therefore, Ecolarium will be the focal point for all climate related solutions.

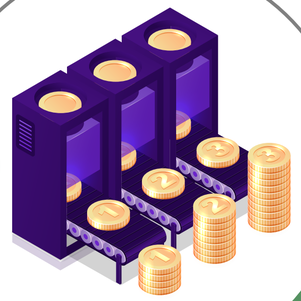
How Does Work Ecolarium Platform?

1



The Ecolarium Platform determines the participation of its stakeholders in the platform with a blockchain-based governance system, renewable energy resources and carbon certificate production processes.

2

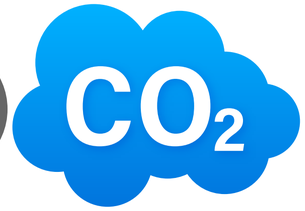


Projects deemed appropriate to participate in the platform are made transparently accessible with a tokenization setup based on energy production.

3

Users buy tokens produced with the ReFi concept on the platform for the investment they deem appropriate.

4



As long as the activities in the carbon emission reduction projects on the platform continue, the value created is delivered to the user with a dollar-indexed token.

What are the Components of the Ecolarium Platform?

The Ecolarium Platform provides interfaces that enable users to trade renewable energy sources and carbon certificates.

EcoProject

It enables the realization of transactions on renewable energy resources to be included in the platform.

EcoDeFi

Allows Project Tokens on the platform to be traded with other crypto assets.

EcoMarket

It lists the supply and demand of carbon credits and ensures that the purchase and sale transactions are carried out.

EcoDAO

Provides the necessary infrastructure for ECO token holders to make decisions regarding the platform and projects to be implemented.

EcoIdea

Allows different R&D projects to be integrated and discovers new procedures for the certification of different types of carbon credits.

Services of the Ecolarium Platform

Ecolarium Platform performs all processes with blockchain-based technologies. To achieve this, it develops and offers various services.

EcoTakeep

It allows the production of renewable energy sources to be transparently recorded and viewed on the blockchain network.

EcoProtocol

It enables renewable energy sources and carbon certificates to be tokenized on the blockchain network.

What is Ecolarium (ECO) Token?

The ECO token is the governance token of the Ecolarium platform.

- Holders of ECO tokens can decide by voting which energy source should be included in the platform.

- It can determine the conditions under which renewable energy sources can be included in the platform.

- Users must hold ECO token to participate in projects on the platform.

How Does the Platform Project Token Work?

1. ABC energy plant applies to platform as carbon emission reduction project

2. The project is evaluated with the Ecolarium control mechanisms.

3. It is submitted to community voting for the project to be included in the Ecolarium Platform.

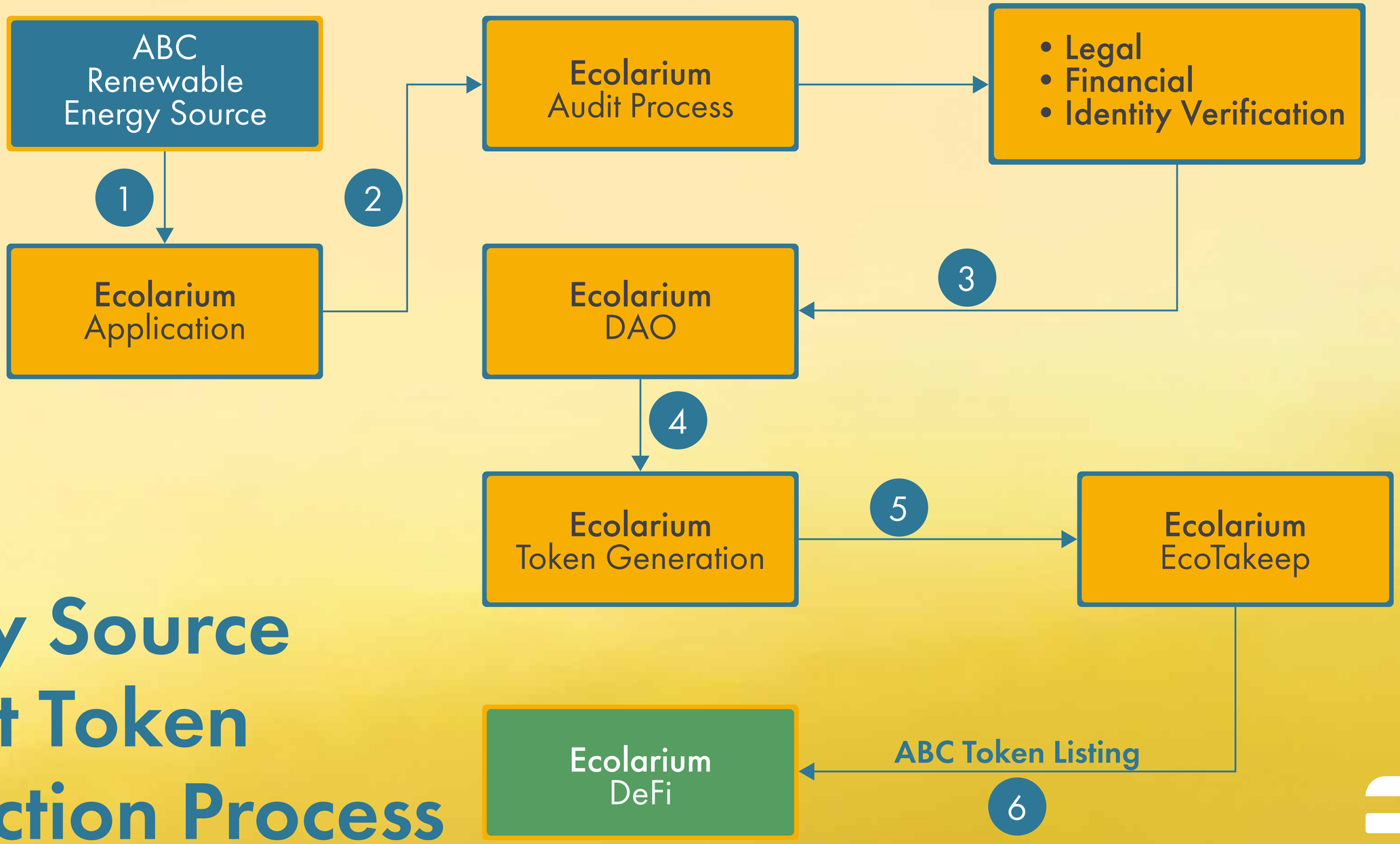
4. The dollar-fixed token of the project, which is approved by the community, is produced with the protocol.

5. The integration of the project with the blockchain infrastructure is done on the platform.

6. The project token is opened for processing via EcoPlant and EcoDeFi.

Summary: It is vital for a project to hold Ecolarium in order to apply to be listed. Ecolarium holders decide for the listing of the project and therefore Ecolarium token has an important utility in voting and making decisions about the platform.

Energy Source Project Token Production Process



How to Invest in the Platform?

1. Investor A, Investment B and Investor C purchase the ABC and XYZ energy resources offered on the platform from the dollar-fixed project tokens for the investment amount.

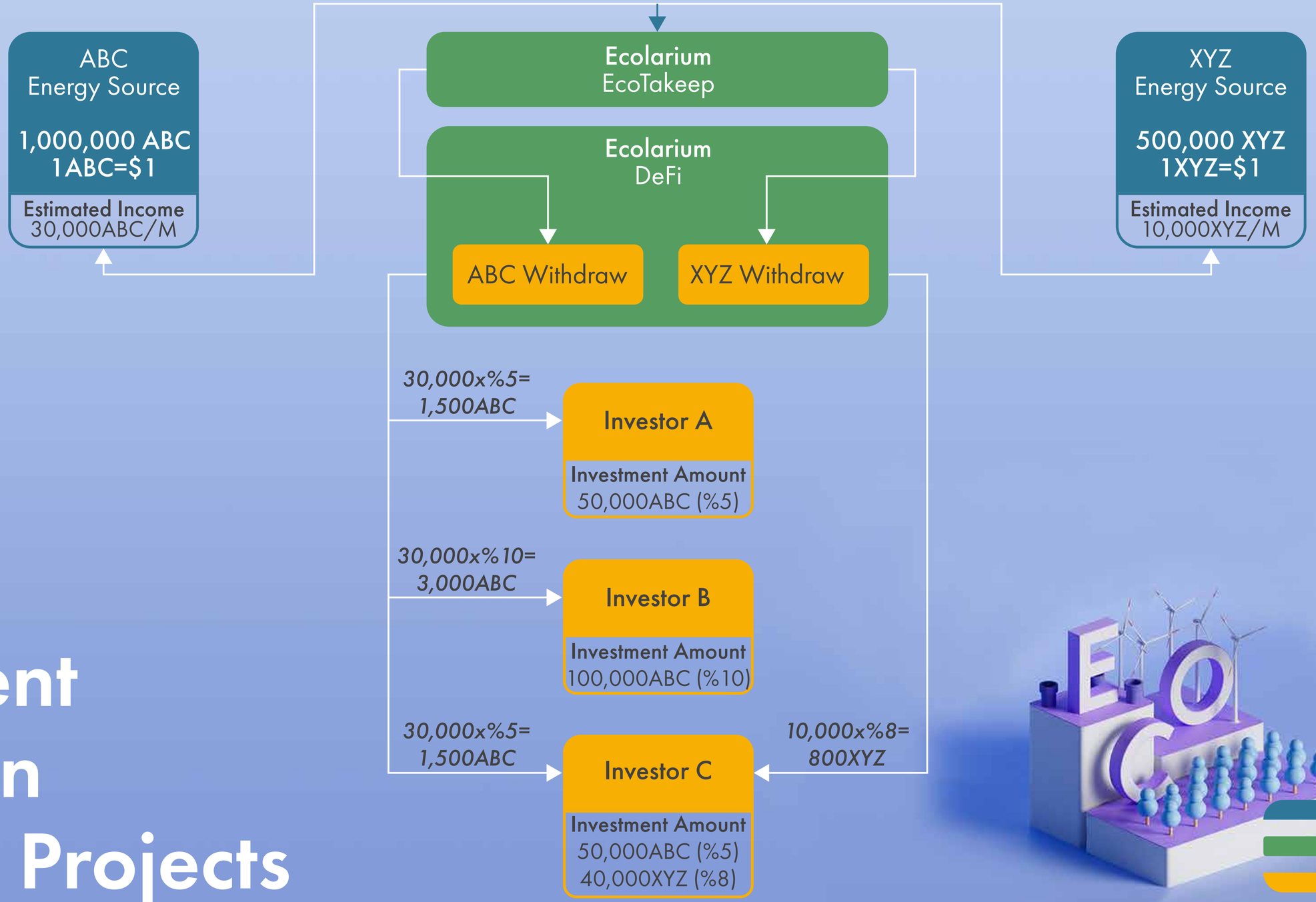
2. Purchased ABC and XYZ project tokens are locked to energy sources together for a certain period of time.

3. The production obtained from the energy source can be viewed instantly by EcoTakip.

4. Withdrawals are activated during periods determined by the investors (7 days, 14 days, 30 days, etc.). When the withdrawal order is given, a fixed project token is produced with EcoProtocol. Withdrawn project tokens can be converted into any crypto asset via EcoDeFi.

Summary: Eco token is the primary token used while investing and cashing out of the platform. All commissions on the EcoDefi is used towards the Eco token. In addition, there might be projects listed on Ecolarium that is solely run on Eco tokens.

Investment Process in Platform Projects

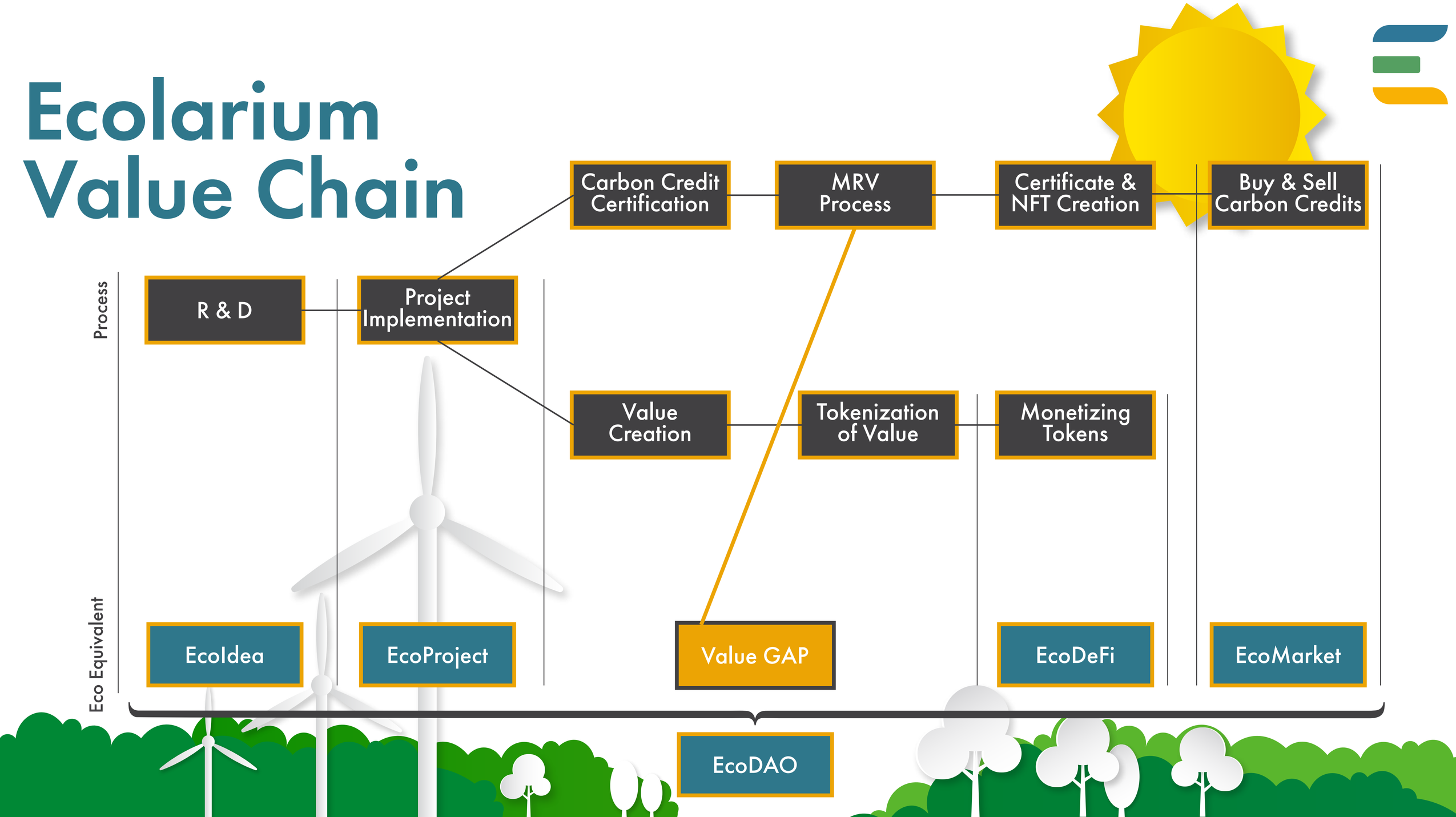


How Does EcoMarket Work?

- EcoMarket is an NFT marketplace where carbon credit certificates and other NFT'S are bought and sold. Everything sold in this market is priced as ECO tokens and ECO token is needed in order to buy the desired NFT.

- In addition, those who would like to list their own NFT's to be sold on EcoMarket will need to hold Eco tokens.

Ecolarium Value Chain



Value Chain Glossary

R & D:

The process of creating the MRV and industry compliance methodology for a project to be implemented.
For example: the MRV standards for a hazelnut tree has recently been created but that for an olive tree is yet to be created. These standard creations has a large overhead cost at the beginning.

Project Implementation:

It could be a clean energy plant (solar, wind and etc) or a green planting project (thyme, tree and etc) which can later be certificated for its carbon credits.

Value Creation:

It is the value created from the project. It could be clean energy from the plants or the fruits from the trees planted.

Monetizing Tokens:

Once the value is exchanged for a stable coin by Ecolarium, this is the step to cash out your stable tokens generated.

Carbon Credit Certification:

The process of certifying your project in order to issue carbon credits.

MRV Process:

The 3 step process of issuing carbon credit certificates consisting of monitoring, reporting and verification all done separately.

Certificate & NFT Creation:

Once MRV process is completed, carbon credit certificates is issued by the unfccc and these certificates are transformed into NFT's on Ecolarium.

Buy and Sell Carbon Credits:

The marketplace where you can buy carbon credit certificates to hold or use in real life.

Value Gap:

The missing piece where Ecolarium is not currently serving but is working towards implementing this process into its platform and having UNFCCC approve it.

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