

Chia Core Registry

Fostering Country Capacity Building



Chia Open-Source Core Registry

Chia, in conjunction with The World Bank Climate Warehouse team, have developed a **simplified open-source registry** with core functionalities aligned to Article 6 requirements and automatic sync-in to the Climate Action Data Trust (CADT)



Tracking and accounting for article 6 requirements

Leveraging common data model to aggregate and harmonize data from country registries through the **Climate Action Data Trust**



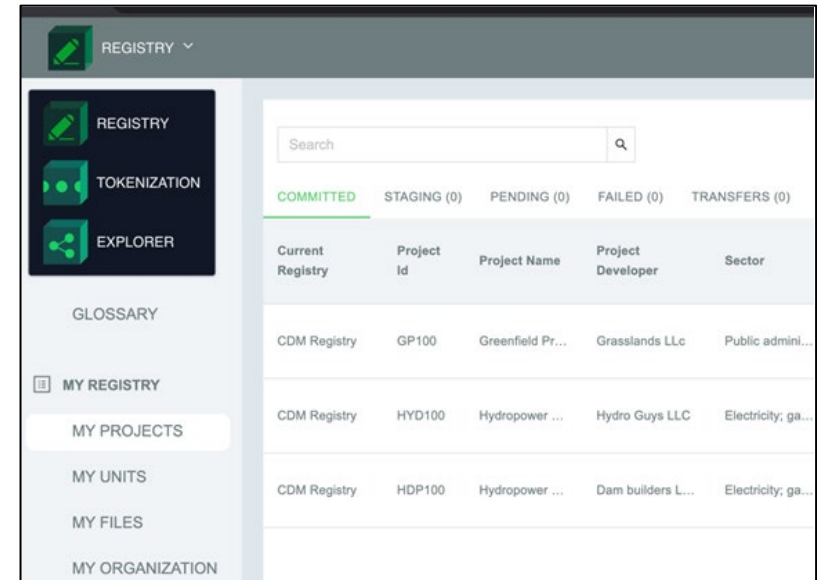
Issuance and transaction of carbon credits

Through blockchain and tokenization technology, this transaction layer enables the creation of digital carbon assets – a digital record or representation of a traditional carbon credit



Fostering capacity-building and experiential learning

Learning between all actors involved on the needs, technical and functional requirements, and governance and business models



Current Registry	Project Id	Project Name	Project Developer	Sector
CDM Registry	GP100	Greenfield Pr...	Grasslands LLc	Public admini...
CDM Registry	HYD100	Hydropower ...	Hydro Guys LLC	Electricity; ga...
CDM Registry	HDP100	Hydropower ...	Dam builders L...	Electricity; ga...

Core Registry – High Level Explanation of Modules

OVERVIEW: The Core Registry comprises two modules – a register module and a transaction layer module. These two modules together form a functional registry.

Module 1 – Register



- **Record climate action projects including details such as:**
 - Project details and scope
 - Verifiers/validators
 - Estimations for expected MOs
 - Labels awarded by external agencies
- **Record MOs with details including:**
 - Carbon credit type and status
 - Link to the project
 - NDC/CA information



Module 2 – Transaction Layer



- **Create and issue carbon credits to represent MOs:**
 - Create unique carbon credits for each vintage of MOs
 - Issue carbon credits to specific entities
- **Manage owned carbon credits using Climate Wallet:**
 - View carbon credits details
 - Send carbon credits to another entity
 - Retire carbon credits directly for the beneficiary
- **Record carbon credits transactions automatically using the Climate Explorer:**
 - Automatically detect and record carbon credit issuances and retirements
 - Prove the beneficiary party for a particular retirement



Core Registry Benefits

Capacity Building



- The Core Registry was developed for countries to be able to quickly and cost effectively begin participating with Article 6 requirements of the Paris Agreement
- As many countries are just beginning their journey toward fulfillment of these requirements, the Core Registry was built as a foundational layer to jump start this initiative.
- Working with the Core Registry will allow countries to experience running a registry while at the same time working through internal processes and guidelines.

Seamless CADT Participation



- The Core Registry was created with seamless integration with the Climate Action Data Trust (CADT)
- The CADT was developed to gather the world's climate projects into a single data source for global visibility and inspection.
- With implementation of the Core Registry a country's registry is immediately part of this common good initiative.

Cost Effective



- The Core Registry was developed as an Open-Source solution that has no cost for the software solution.
- Any country can begin to implement Core Registry on their own, at any time.
- Chia Network does provide some optional fee-based services for guided implementation or hosting if desired.

Decentralized Finance with Digital Assets



- The Core Registry provides for easy creation of carbon credits as digital assets.
- This next generation capability allows for greater democratization of access and management to carbon credits, reducing funds reducing middle organizations.
- This allows greater flow of funds to project developers, thereby making projects more profitable, which then leads to greater development of further projects.

Core Registry: Deployment Flexibility

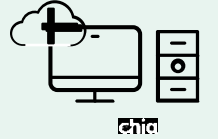
1. Local Installation



Install the open-source software required to run the Core Registry on a physical computer your organization owns.

Use this option if you have security permissions to install software on your device and have at least 75gb of spare disk space.

2. Cloud – Chia AWS Workspace



Chia Network, Inc. will spin up a blank AWS workspace which users will connect to using a browser or the AWS workspace app.

Use this option if your local machine security permissions are strict, but you still want to install the Core Registry software and/or test the Core Registry APIs.

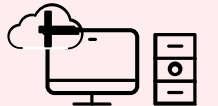
3. Cloud – Chia Hosted Instance



Chia Network, Inc. will host a cloud instance with pre-installed Core Registry software. Users will access the Core Registry by using credentials given by Chia Network, Inc.

Use this option to quickly be able to test the Core Registry UI without needing to install on your own machines.

4. Cloud – Own Organizational Cloud

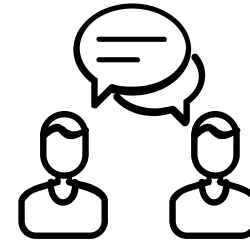


- Self-sovereign and participants fully own their data
- Permissionless publicly viewable / auditable data
- Permissioned write functionality to protect tables
- Ability to permission sensitive data when necessary
- Versatile data entry, export & reporting
- Data model built to be easily upgraded or revised



Core Registry: Cost Model

- Software Fees:
 - The Core Registry is provided as open-source software so there are **no software fees**.
 - Download and documentation available at <https://github.com/Chia-Network/core-registry-api>
- Optional for-fee Services.
 - Chia guided implementation services - **\$7,500**
 - Chia fully managed hosting of the Core Registry - **\$750/month**





Core Registry: Next Steps

- For further information reach out to:

Steve Booth, VP – Solutions

S.Booth@Chia.net

WhatsApp – +1 610-213-1434

Chia Core Registry

Fostering Country Capacity Building

