Structured call for inputs on recommendations for activities involving removals

Comments from Osservatorio Parigi

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Inputs regarding modalities for operation of the Article 6.4 mechanism registry

Here are indicated some inputs from Osservatorio Parigi under the call Call for input 2023 - structured public consultation: Modalities for operation of the Article 6.4 mechanism registry

Type of registry

Registries under Art 6.4 should be:
- Dynamic
- Interoperable
- Real time
- Consistent and scalable

Beside the usual relational database technologies we suggest to explore innovative solution like blockchain and non-relational databases that are more compliant for dynamic diffuse and distributed processes.

Blockchain technology provides a transparent record of all transactions. This transparency allows all participants in the carbon market to verify the authenticity of carbon credits and track their origin, ensuring that each credit represents a genuine emissions reduction.

SEE ALSO

https://www.linkedin.com/pulse/digitizing-carbon-credits-role-blockchain-emissions-reduction-salehi#:~:text=Transparency%3A%20Blockchain%20technology%20provides%20a,represents%20a%20genuine%20emissions%20reduction.

Functional scope of the mechanism registry

The scope of the registry needs to be dedicated to verified and authorized A6ER but with a unique and traceable correspondence with corresponding adjustments. Tracking and uniqueness can be granted with token methodology and cryptocoding to associate unique identifiers to A64ER units

Role of the mechanism registry administrator;

The registry administrator should be a physical or virtual body deputed to
- manage the income of new A6ER with token / ID association functions
- manage transaction and status change of A6ER
- manage deletion of correction of the registry occurrences
- provide the proper APIs /actions to interrelate the correspondent adjustment, national emission count registries and National and International NDC registries. Interaction

should be scalable also to other registries with the principles of maintain data and environmental integrity

Mechanism registry procedure;
Depending on the technology chosen

Registry functions that should be referred to the CMA
- Yearly New A6ER incomes
- Yearly A6ER implied on National NDCs ambition increase
- Change of Status
- Cancellations

Connection between the international registry, the Article 6.4 mechanism registry and national registries.

Such two types of registries need to be interoperable, and by tokens or cryptocode mechanism, or by relational tables need to be dynamically adjourned the impact of A6ER into national emission reductions