

What is Moro?



Moro enables carbon compensation at the sequencer level to create a carbon neutral network.

Appchains can **automatically offset** their Carbon impact.
Offsetting operations are included in blocks which offers **traceable** proofs of decarbonation.

How Moro Works?



Block proposer add an extra local transaction to every block.

This tx offsets the block's total execution resources by buying credits from a pool launched at genesis.

Payment is deducted from the sequencer's collected block fees

How Moro Works in details?



- 1. A pool of Carbon Credits is deployed at genesis.
- Carbon Offset costs per execution resource are queried via an API
- 3. The total resources of the current block are put in the block header
- 4. On block finalization, an additional tx is added to the block:
 - The sequencer computes offsetting
 CO2 costs
 - The sequencer buys offsetting power in the Carbon Credit Pool via a local tx
 - c. The local tx is added to the block

Future Work



- Implement Moro as a pallet (right now inside the Starknet pallet)
- Use inherent transactions
 - for the offsetting API
 - for the block offsetting tx
- Show Sequencer
 Leaderboard in a front-end

Moro's Github

https://github.com/carbonable-labs/moro