



Sunrise Stake

**Climate-positive
staking on Solana**

**Lamport DAO | Sandstorm
Hackathon submission**





What is Sunrise Stake?



Sunrise Stake is a staking protocol on Solana that invests yield in burning carbon tokens.

Stakers passively offset carbon, while retaining access to their SOL through immediate and fee-less **liquid unstaking**.

Sunrise also helps secure Solana by investing in staking pools, which increase the chain's **Nakamoto coefficient**.



Carbon tokens

Carbon tokens are tokenized carbon credits, which allow individuals and companies to offset their carbon emissions.

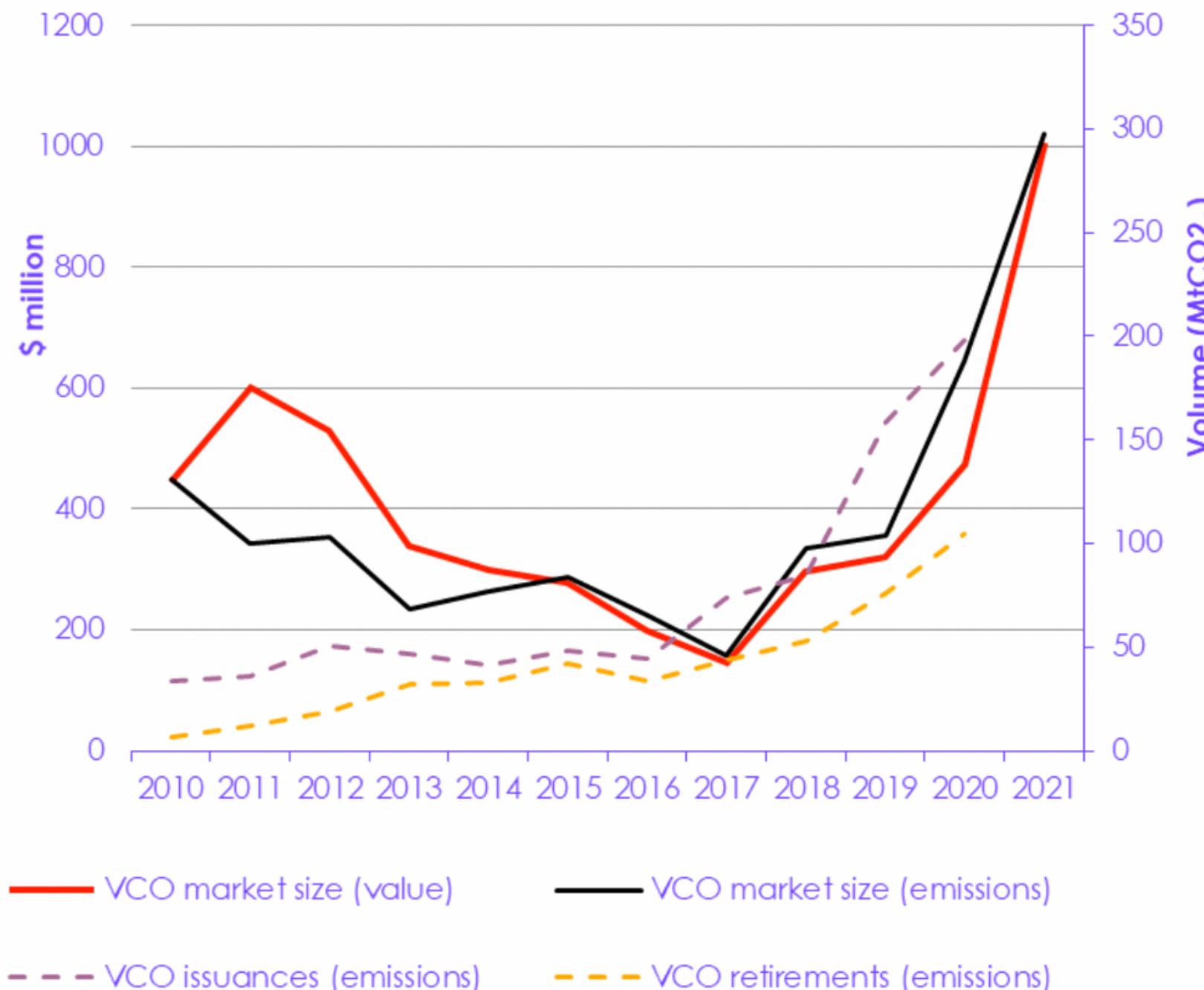
Burning these tokens **retires** the underlying carbon credits.

In buying and burning carbon tokens, Sunrise Stake **reduces the negative impact** of carbon emissions.





Estimated growth in market size of global Voluntary Carbon Offset markets



Source: Climate Change Committee, Voluntary Carbon Markets and Offsetting Report, October 2022



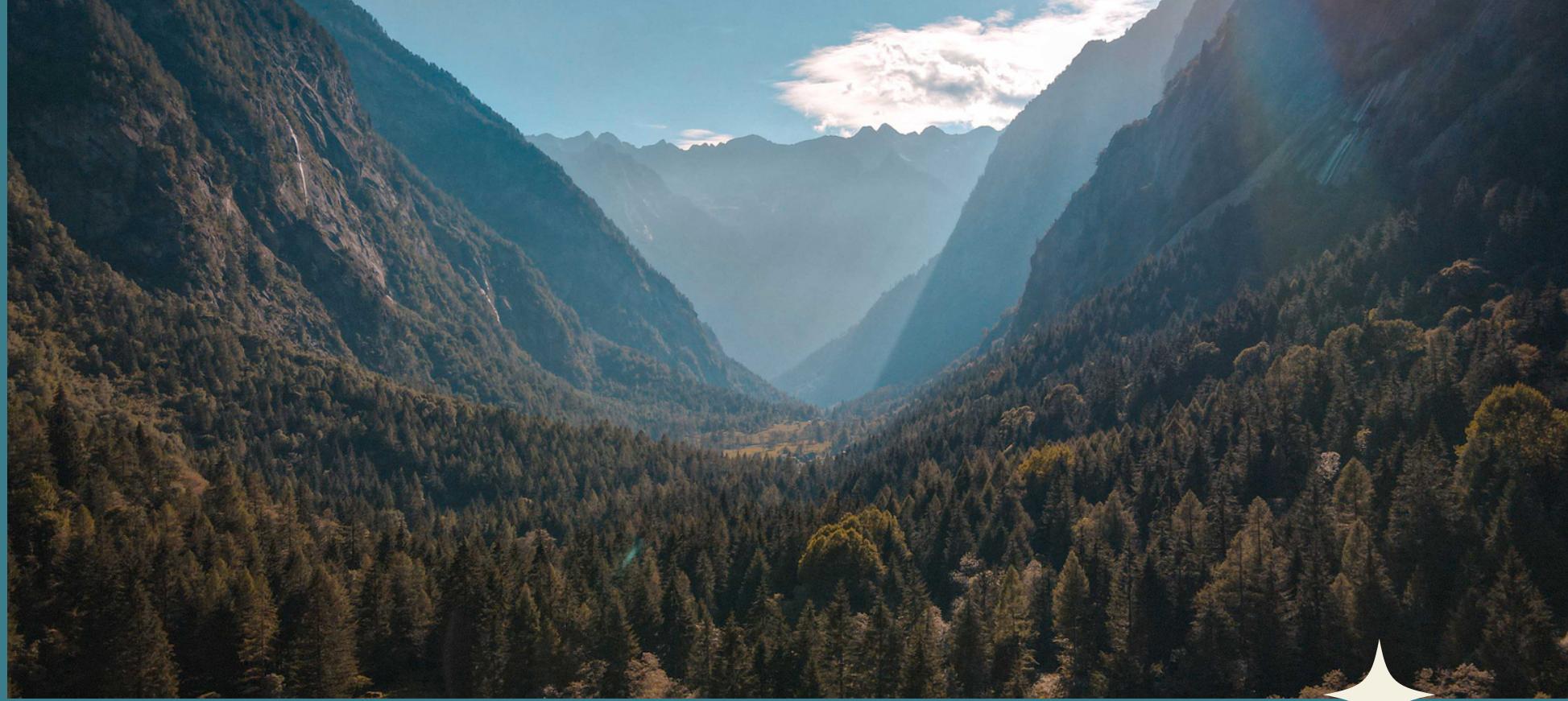
The carbon market is currently getting stronger, offering a great potential both for carbon token holders as well as the natural environment.

Thanks to the existence of voluntary carbon offset markets, individuals and companies are able to invest in green projects.

Through Blockchain this can be done in a **transparent and traceable** way.



The carbon token used by Sunrise



Toucan



NCT: Nature Carbon Tonne reference token

NCT represents carbon tokens from emission offsetting projects, and is the first open, pooled, nature-based token.



How to stake with Sunrise?

The screenshot shows the Sunrise Stake homepage. It features a dark background with green foliage illustrations at the bottom. The main heading is "Sunrise Stake" with the subtitle "Offset emissions while you sleep." Below this is a sub-subtitle "Invest in the future by using your staking rewards to support climate projects." A green button labeled "Start reducing CO₂ emissions" is visible. In the center, there's a circular icon with a plant and the text "so far 0.8 tCO₂E carbon recovered". At the top right, there's a "Connect Wallet" button.

go to app.sunrisestake.com
and connect your Solana wallet

choose the amount
of SOL you wish to stake

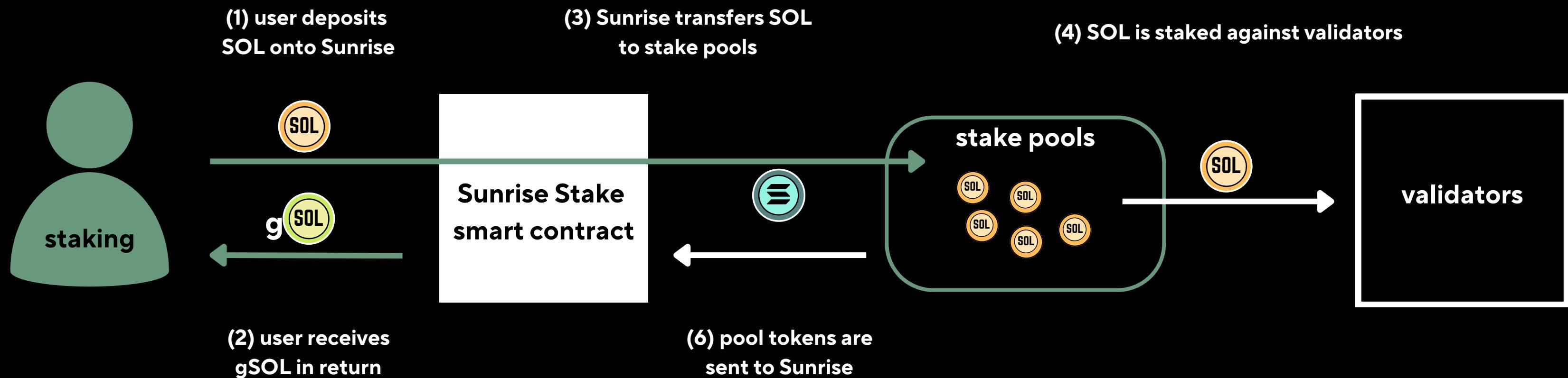
approve the
transaction in
your wallet

The screenshots show the mobile application interface. The left screenshot shows the "Approve Transaction" screen with a "Cancel" and "Approve" button. The right screenshot shows the staking interface with a balance of 6.0 SOL, a stake amount of 1.0 gSOL, and a total stake of 120.6 SOL, with an offset CO₂ value of 0.8 tCO₂E.

Verify your transaction on [Solscan](#). gSOL's token address is:
gso1xA56hacfgTHTF4F7wN5r4jbnJsKh99vR595uybA

How does it work?

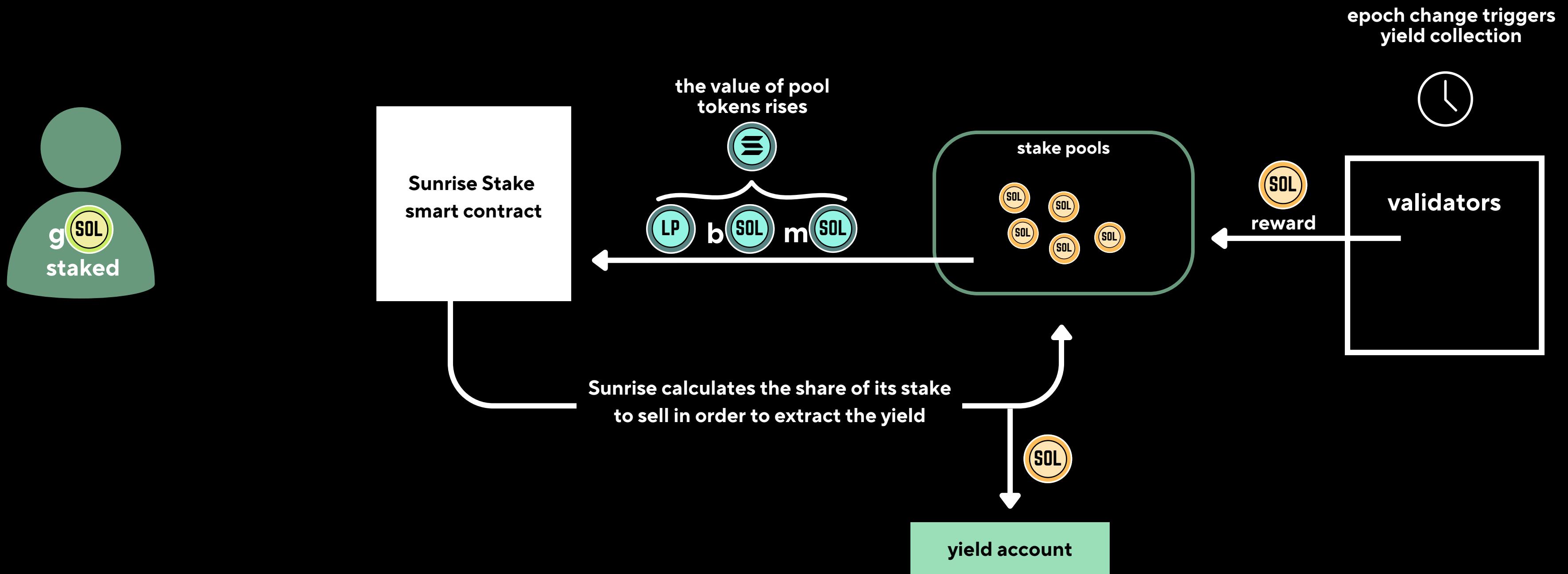
staking





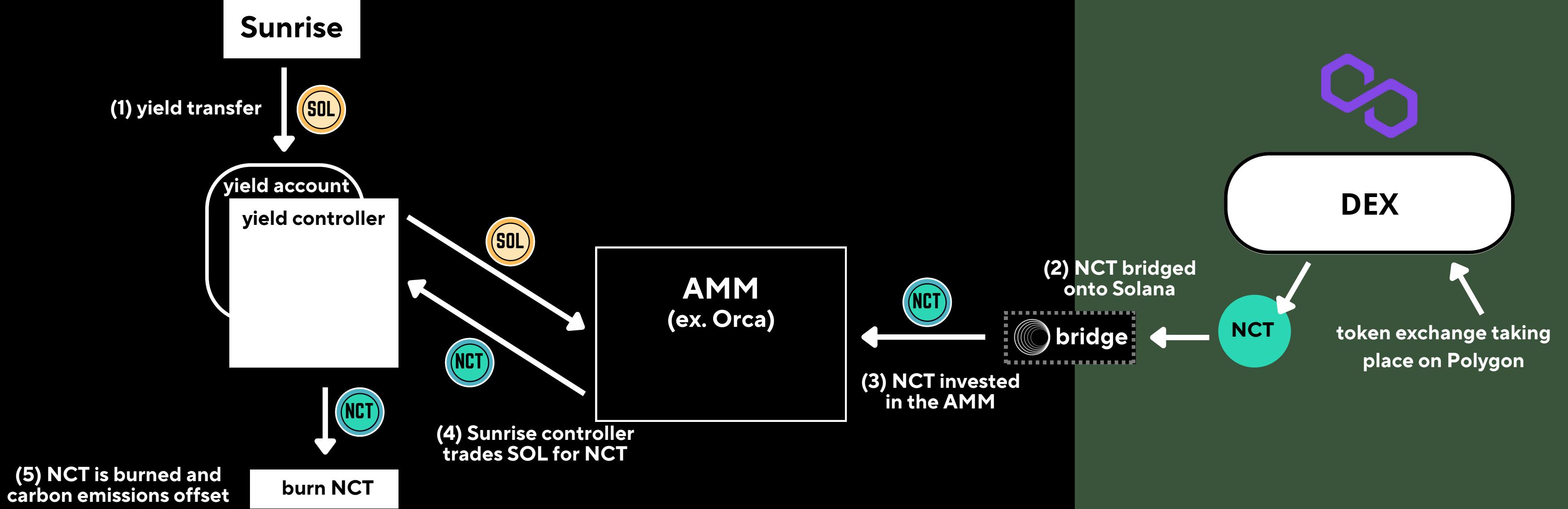
How does it work?

accruing yield



How does it work?

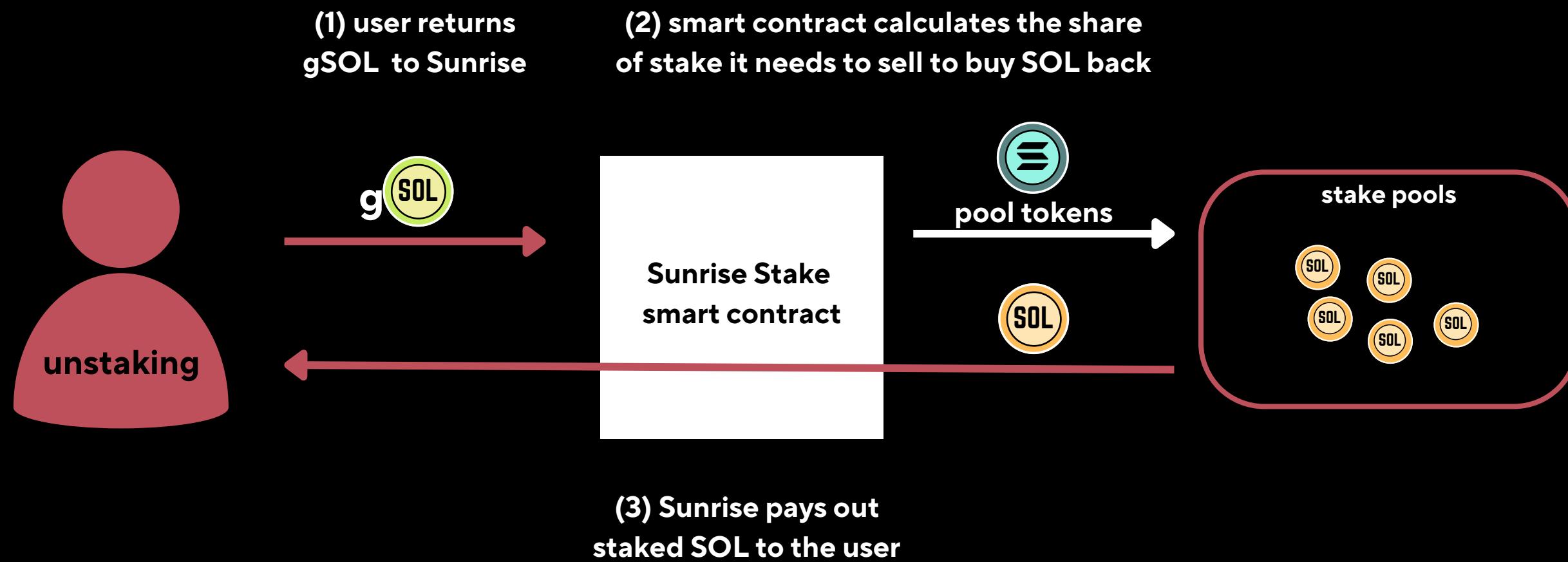
purchasing and burning carbon tokens





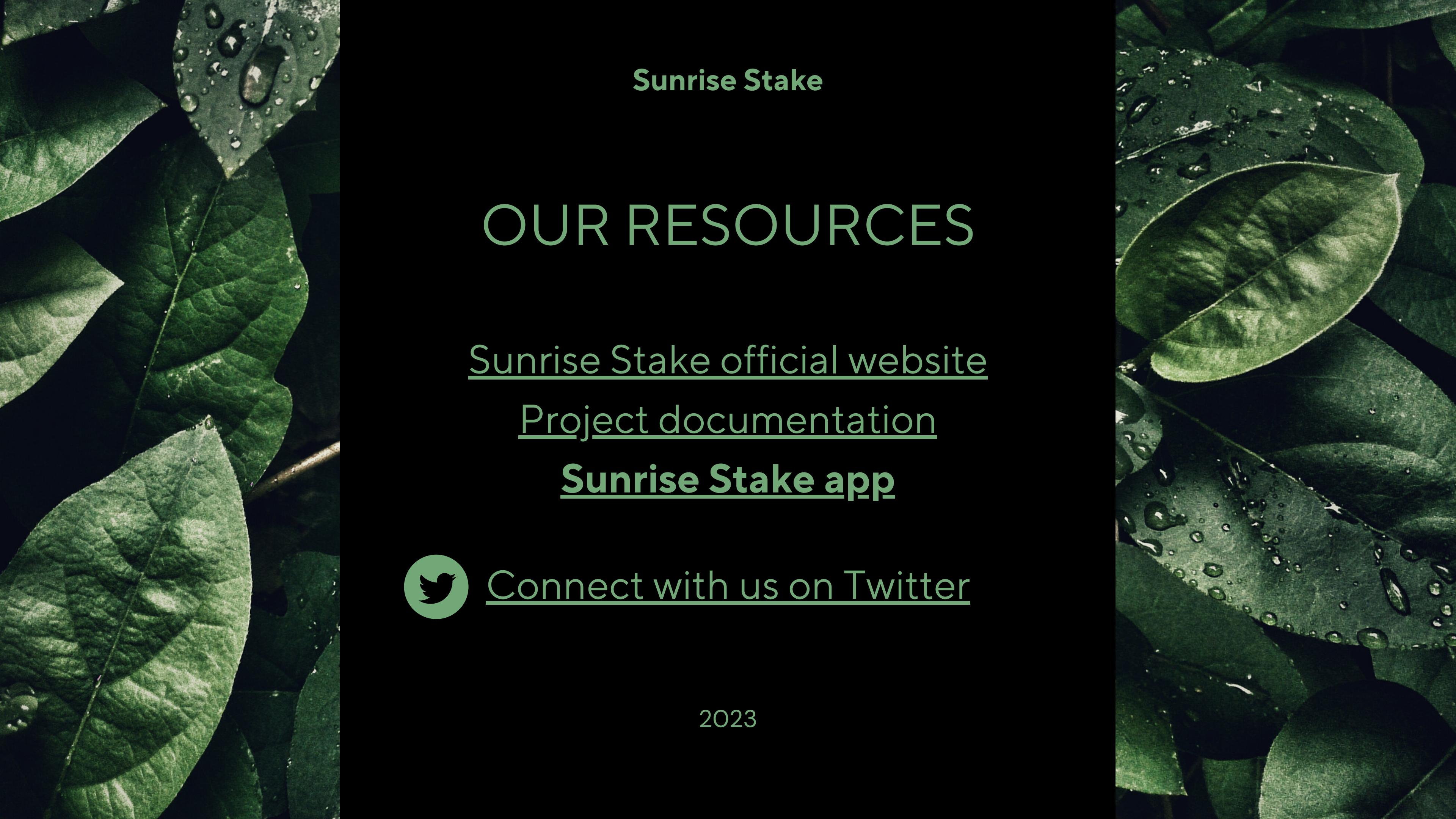
How does it work?

unstaking



NOTE

Although you can unstake your SOL any time, the longer it is staked the higher the contribution to carbon offsetting projects.
Don't keep SOL idle in your wallet - with Sunrise Stake you maintain full liquidity on Solana thanks to gSOL you receive for staking while allowing your SOL to accumulate rewards in a passive way.



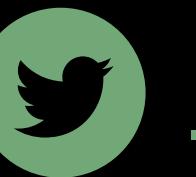
Sunrise Stake

OUR RESOURCES

[Sunrise Stake official website](#)

[Project documentation](#)

[Sunrise Stake app](#)



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