



CASE STUDY: MYCARBON

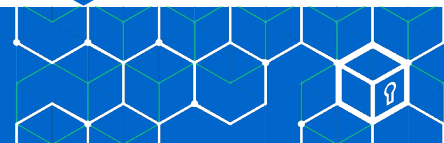
The “MyCarbon Shielded by Lokblok” blockchain platform/exchange is a transparent, regulated, seamless marketplace that offers a platform via a trading board with NSXA for the trading of climate related carbon financial assets (ACCUs, Safeguard Mechanism Credits (SMCs), Large-scale Generation Certificates (LGCs), and Small-scale Technology Certificate (STCs)) and/or derivations of these financial asset classes.

MyCarbon, (an unlisted public company headquartered in Sydney, Australia), is preparing for a public offering on the Australian market in 3Q2024. The focus is to launch the FIRST business service anywhere to provide the ability to trade regulated carbon credit financial assets on a new dedicated carbon trading board established by the NSXA which will list a series of preference shares that represent Federal-Government-issued carbon assets. The roadmap is to replicate and expand the service in other jurisdictions to include New Zealand and Singapore.

MyCarbon is creating a regulated market with the appropriate Australian stakeholders to solve the problems of 1) providing accessibility in climate related carbon financial instruments, 2) providing transparency to enable carbon market stakeholders to assess, understand, and manage potential project impacts and opportunities, and 3) provide efficiency for the crediting and purchasing of Australian Carbon Credit Units (ACCUs).

MyCarbon will use the Lokblok platform to generate and protect the private keys that are used to secure the cryptographic tokens that represent the ACCUs which will later be represented by certain preference shares. The project with MyCarbon involves two phases with phase 1 dealing with initial the issuance of the preference shares that ultimately represent the acquired ACCUs and phase2 involving the dedicated carbon exchange to approve the sale and transfer of carbon securities (preference shares) that will transfer the carbon securities from the MyCarbon Treasury Wallet to their own corporate wallet owners.

“Lokblok's secure key management system gave us the confidence to handle carbon credit transactions efficiently and securely”



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THE PROBLEM:

MyCarbon needed a strong cryptographic method to generate a strong Treasury Wallet Key for the MyCarbon Ethereum Exchange that was co-owned by two company officers to sign carbon credit transactions without either person holding any part of the Treasury Wallet Key.

THE CHALLENGE:

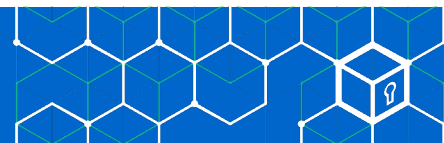
A single Treasury Wallet Key cannot exist in two devices simultaneously and one of two other company officers, the CFO or Company Secretary, must approve the transaction before the key can be used to sign and complete the transaction in a secure workspace on laptops and be burned after the transaction completes.

THE TECHNOLOGY:

Lokblok used its Toughlok Desktop to create the secure workspace environment that whitelisted the MyCarbon exchange integrated with the Toughbox Split Knowledge Key Management Service REST APIs and Toughkey hardware root of trust to create a secure end-to-end security solution for Non-Custodial Multi-Party Signature Service.

THE SOLUTION:

Lokblok's split knowledge key management service generated a quantum resistant, multi-party key using the Toughkey hardware root of trust devices issued to the MyCarbon CEO and CTO. The Treasury Wallet Key is split, encrypted, and enrolled into the Lokblok KMS and reconstituted only after the CFO/Company Secretary approves transactions. The CFO and Company Secretary used their Toughkey devices to create each of their keys that is used to approve transactions and collaborate in the reconstitution of the Treasury Wallet Key. All company officers use the Toughkey with Toughlok Desktop on their devices to process a secure end-to-end process to review, approve, and sign transactions.





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TOKENIZED REAL WORLD ASSETS
SECURITY STRATEGY?**

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assets and revolutionize your
business operations.

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