CupBack

Built by Sithu Nyein



Web cupback.vercel.app

X @thesithunyein **GitHub** thesithunyein/cupback



CupBack!

Cup deposits on Bitcoin Cash.
Pay at one booth. Get refunded at any booth.

https://github.com/thesithunyein/cupback

cupback.vercel.app

The Story of CupBack

Festivals and markets are switching to reusable cups. The deposit brings the cups back, but it runs on cash and plastic tokens.

You lose a token, the stall closes, or the queue is too long, and your deposit is gone. Staff count change all night.

So we asked: what if the deposit lived on Bitcoin Cash, and any booth could give it back in one scan?



Benefits of CupBack

- **Return your cup at any booth, not just where you bought it**
- **Always 100% back: the contract can only pay the guest**
- **Refunds in seconds, by QR scan. No cash, no tokens**
- **Never stuck: guests can self-refund after the event**
- **Every deposit and refund is public and provable**
- **CupBack never holds anyone's money**

BCH Usage

Each deposit is locked in its own CashScript covenant. Booths approve refunds with WizardConnect and pay the fee. Live on mainnet.

```
pragma cashscript ^0.14.0;

contract CupDeposit(bytes25 refundScript, bytes25 returnScript, bytes25 organizerScript,
                    int recoveryTime, bytes16 receiptId) {
    function refund(bytes16 id) {          // booth or organizer approves
        require(id == receiptId);
        require(tx.inputs[1].lockingBytecode == returnScript ||
                tx.inputs[1].lockingBytecode == organizerScript);
        require(tx.outputs[0].lockingBytecode == refundScript);   // pays the guest
        require(tx.outputs[0].value == tx.inputs[0].value);       // the full deposit
    }
    function recover(bytes16 id) {         // guest, after the event
        require(tx.time >= recoveryTime);
        require(tx.outputs[0].lockingBytecode == refundScript);
        require(tx.outputs[0].value == tx.inputs[0].value);
    }
}
```

Mainnet deposit 0067f970…a28b · refund b1e866ad…aa85 · block 978,345 (simplified excerpt)

The Vision for CupBack

- **First: a live pilot at a BCH-friendly venue or meetup**
- **Business: per-event license, priced by return booths**
- **Deposits in a USD stable token like ParyonUSD, so a cup is always $2**
- **Sell to cup rental companies, who serve many events at once**
- **Then: printed or NFC cup IDs, and an independent contract review**
- **Beyond cups: bottles, crates, bike locks — any deposit**

THANK YOU!

Try it in one minute: **cupback.vercel.app**

github.com/thesithunyein/cupback · 𝕏 @thesithunyein

EMBER2026 vote: `bitcoincash:zzfpcwe2655yg8p5w3u0mmxu46ar8hgmpc5le4uzm6`