



# Deep Dive: Solana DePIN

// October 2024







# Part I Wireless

// October 2024





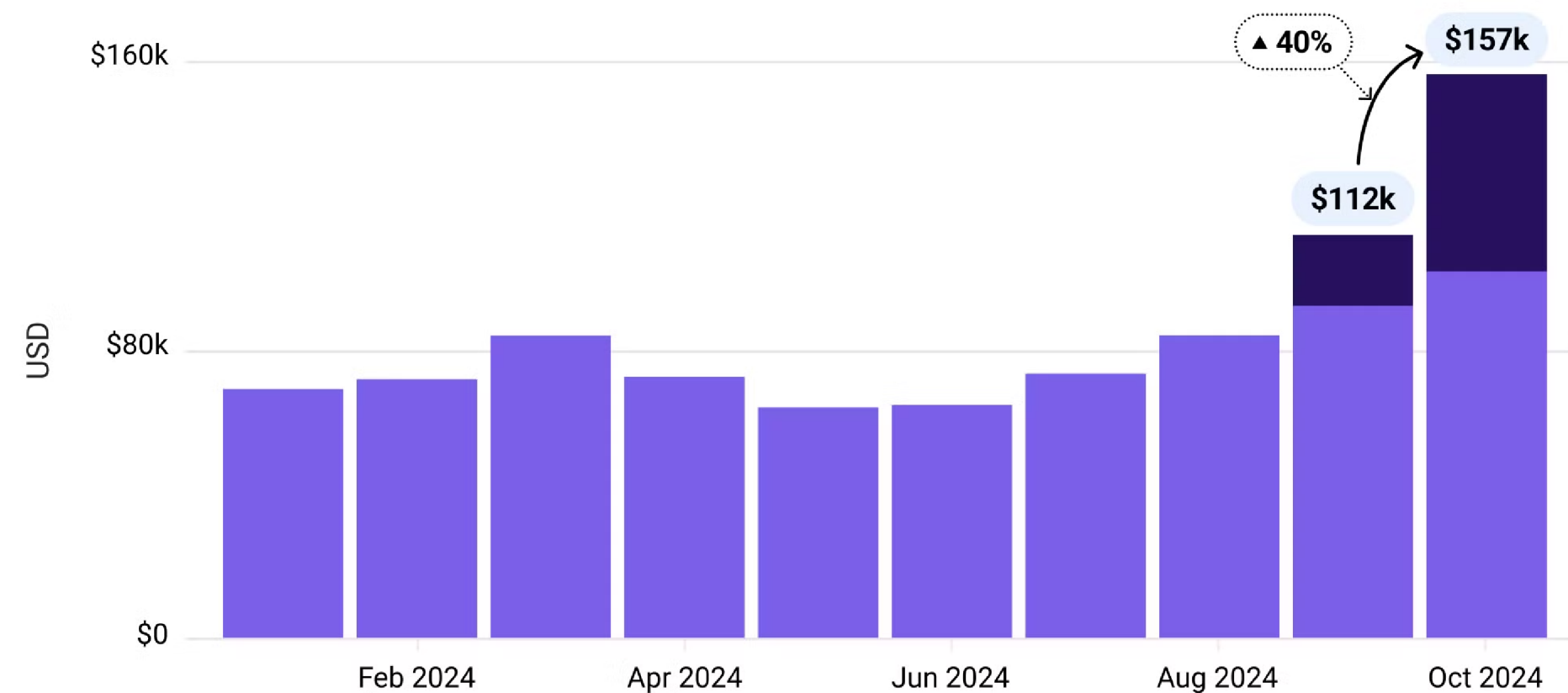
# Helium Mobile usage hit a new ATH.

Data credits burned increased 40% in October, driven by Offload Carrier demand.

## Helium Mobile Data Credits Burned By Month



● Helium Mobile ● Offload Carriers





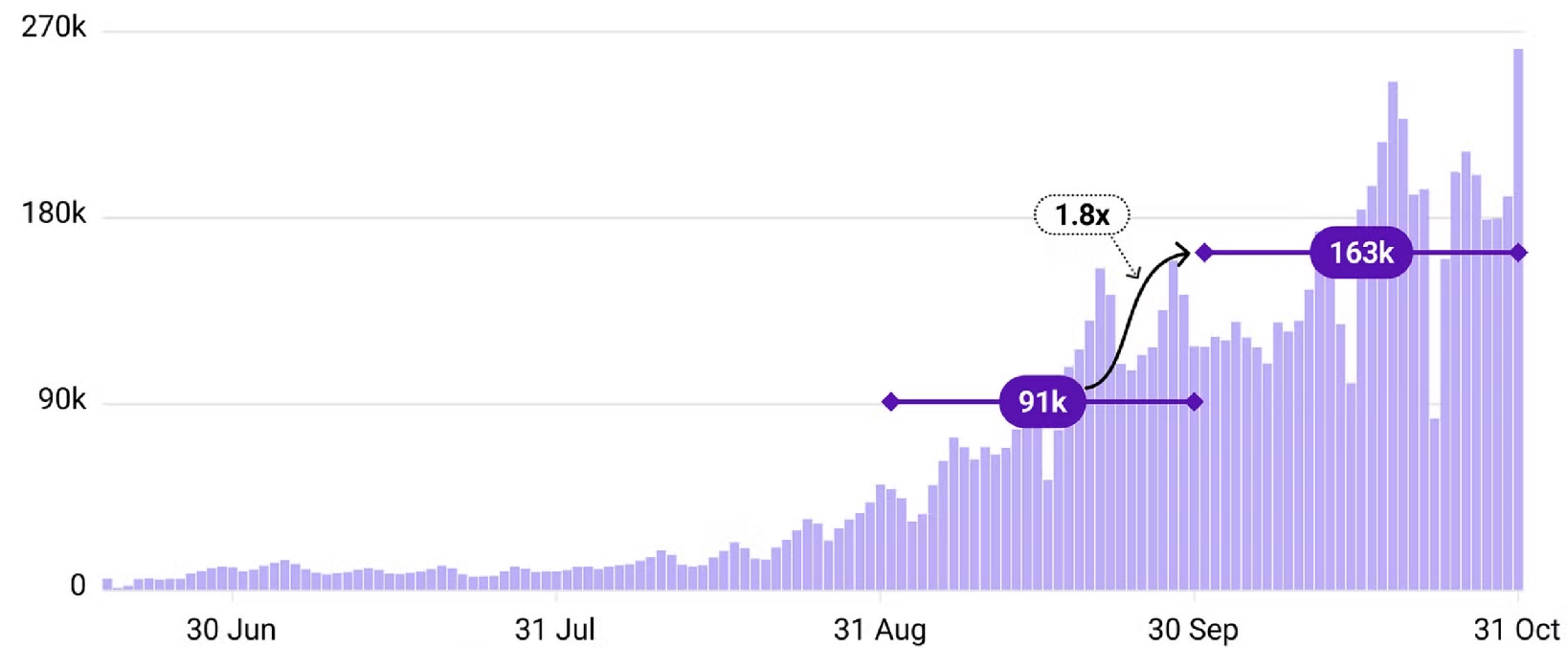
# Carrier offload on Helium Mobile has soared.

Average offload subscriber count and offload data both continued to new ATHs.

## Helium Mobile Offload Subscribers By Day



● Offload Subscribers — Average Offload Subscribers

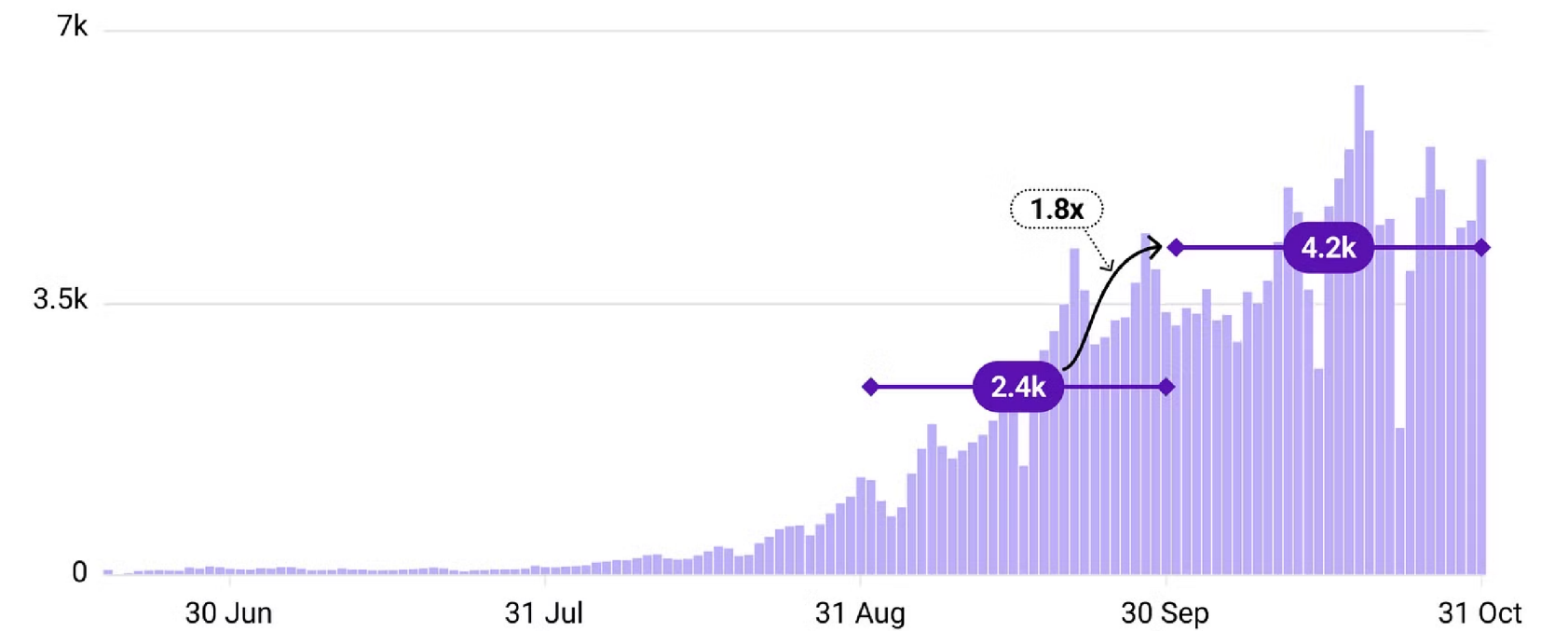


Note: Data has been sourced from Helium Mobile's website.

## Helium Mobile Offload Data in GB By Day



● Offload Data — Average Offload Data



Note: Data has been sourced from Helium Mobile's website.



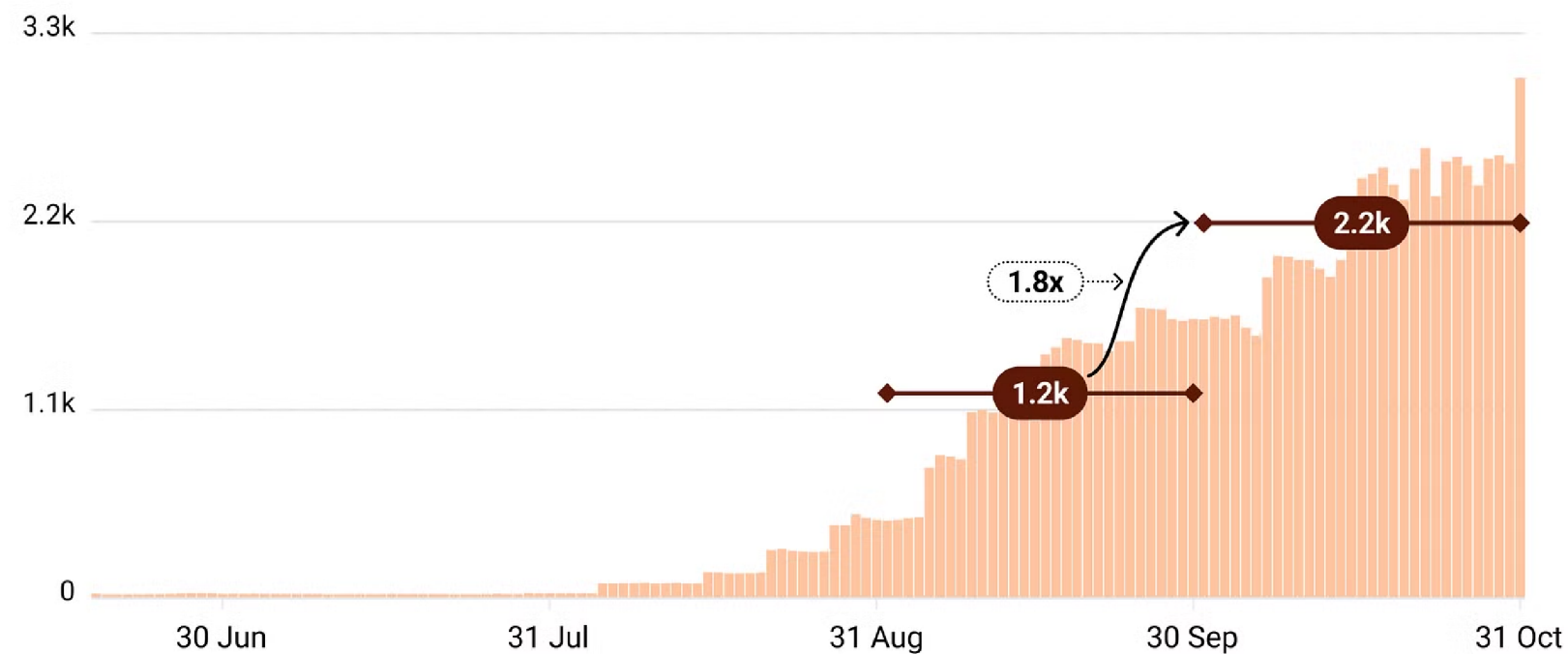
# Helium Mobile offload hotspots have nearly doubled.

Impressively, offload subscribers per hotspot have remained stable since August as growth in hotspots has neatly mirrored growth in offload subscribers.

## Helium Mobile Offload Data Hotspots By Day



Offload Data Hotspots Average Offload Data Hotspots

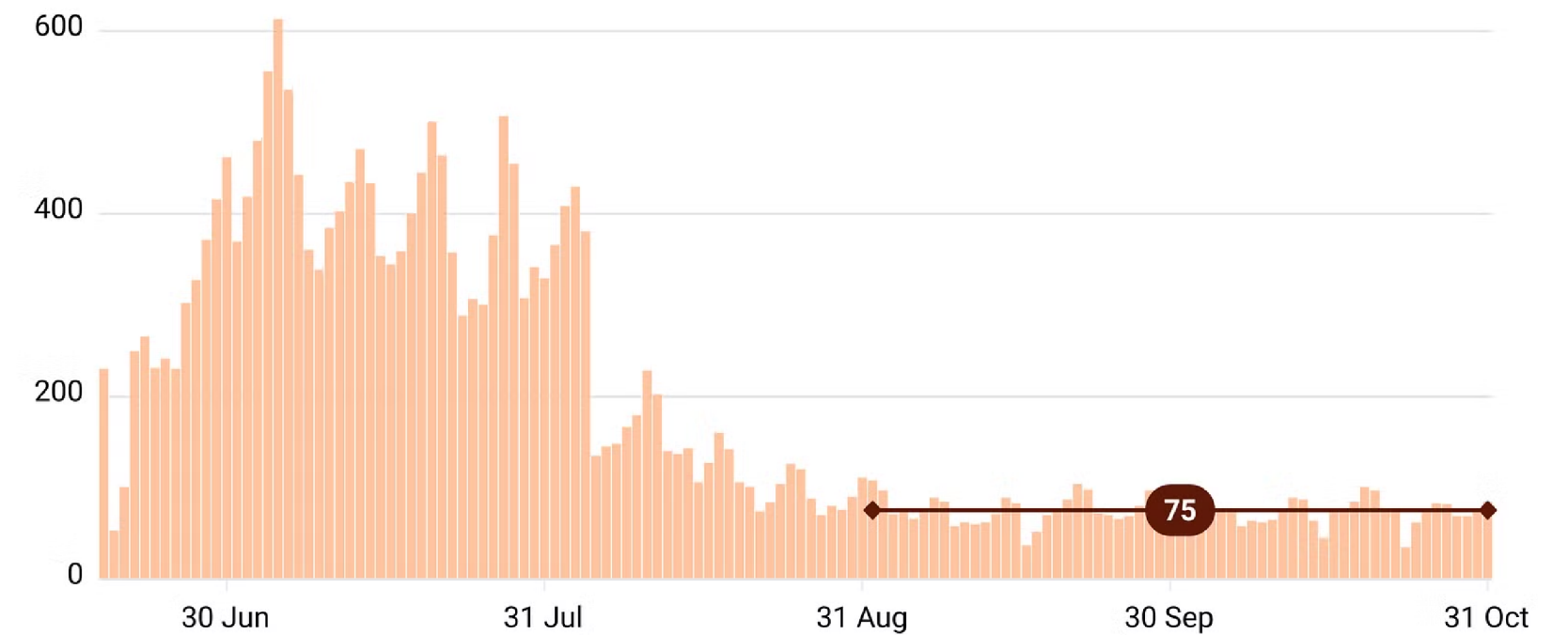


Note: Data has been sourced from Helium Mobile's website.

## Helium Mobile Offload Subscribers Per Hotspot By Day



Subscribers Per Hotspot Average Subscribers Per Hotspot



Note: Data has been sourced from Helium Mobile's website.



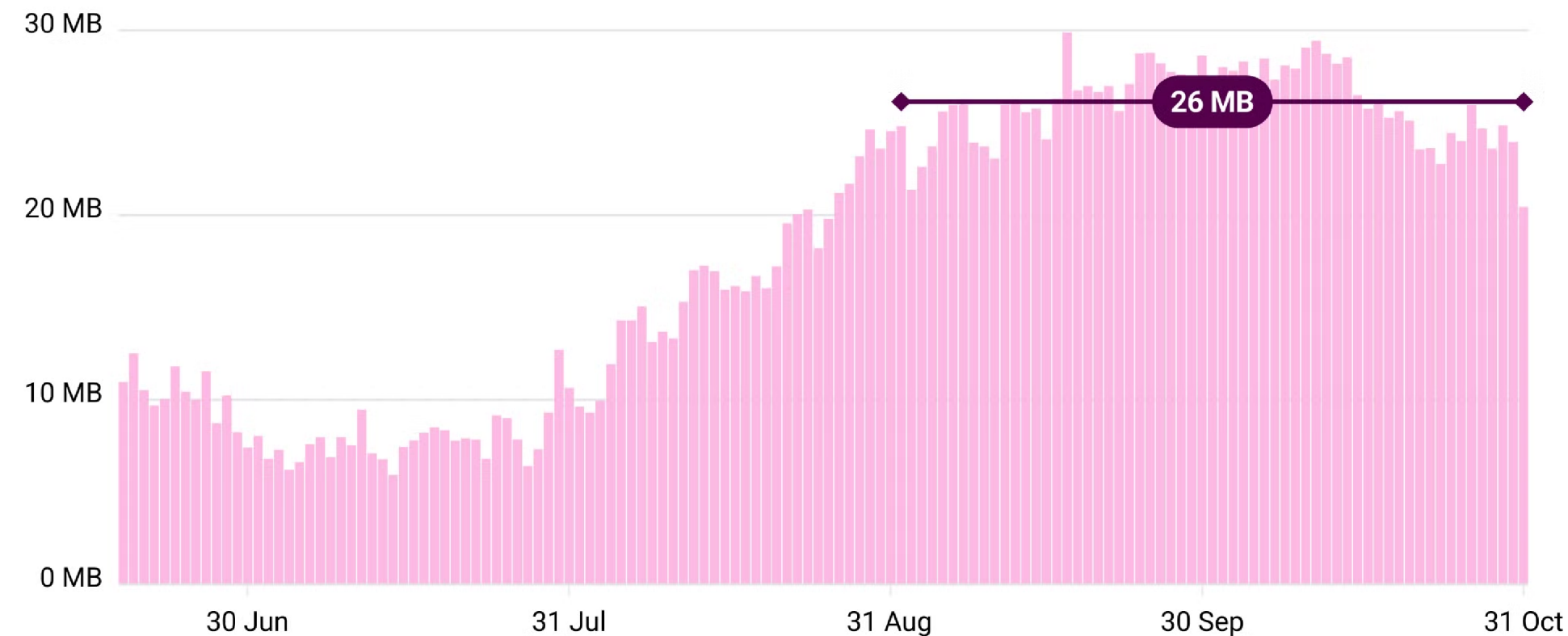
# Offload carrier dependency on Helium Mobile has been consistent.

Average daily data consumption per offload subscriber remained steady at 26MB over the last two months.

## Helium Mobile Average Offload Data per Subscriber By Day



● Average Offload Data per Subscriber — Average by Month



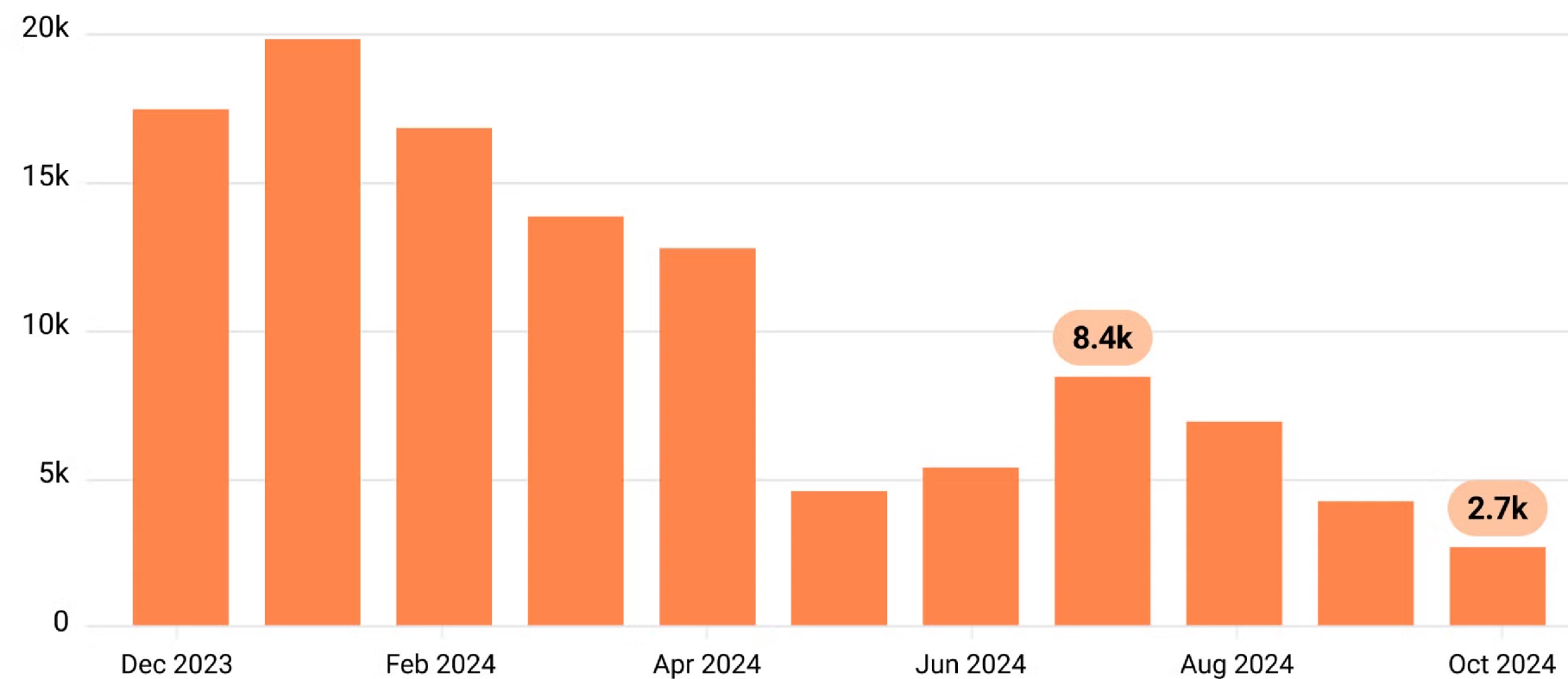
Note: Data has been sourced from Helium Mobile's website.



# Helium Mobile's subscriber growth has been on a downtrend.

Decreasing since July, Helium Mobile has introduced various referral programs in an effort to onboard new subscribers.

**Helium Mobile New Subscribers**  
By Month



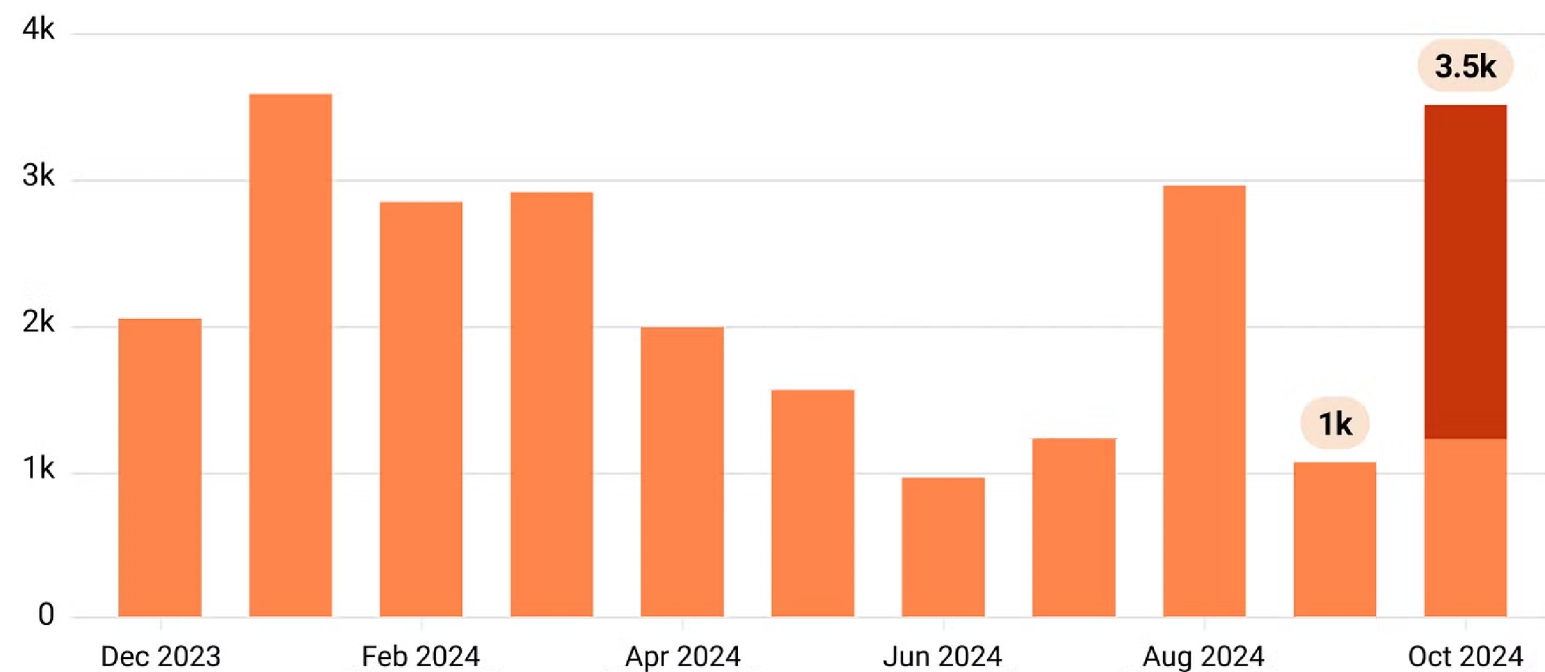


# New Helium hotspots spiked.

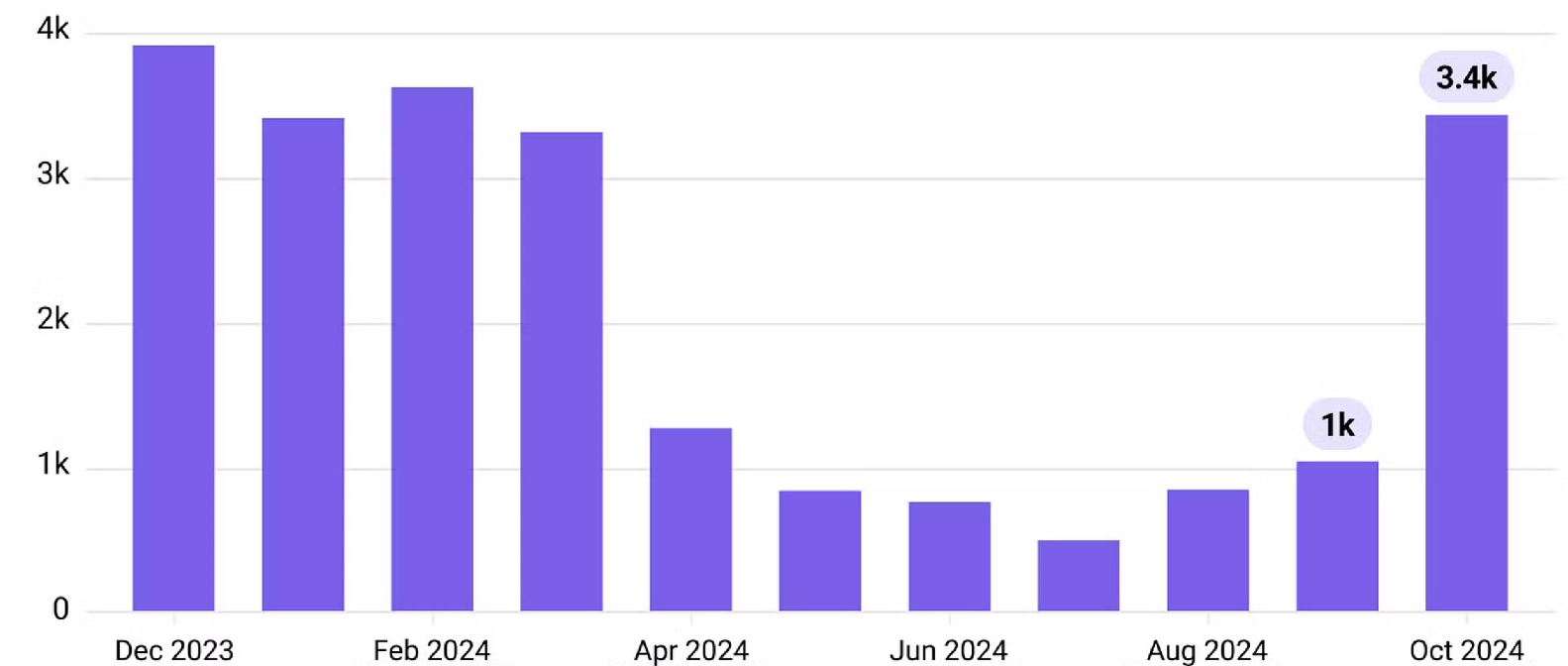
This was likely driven by the announcement of an additional 100k Ameriband data-only hotspots and the network's seasonal "Fall for Fall" sale.

## Helium New Hotspots Onboarded (Mobile) By Month

Regular Data-Only



## Helium New Hotspots Onboarded (IoT) By Month





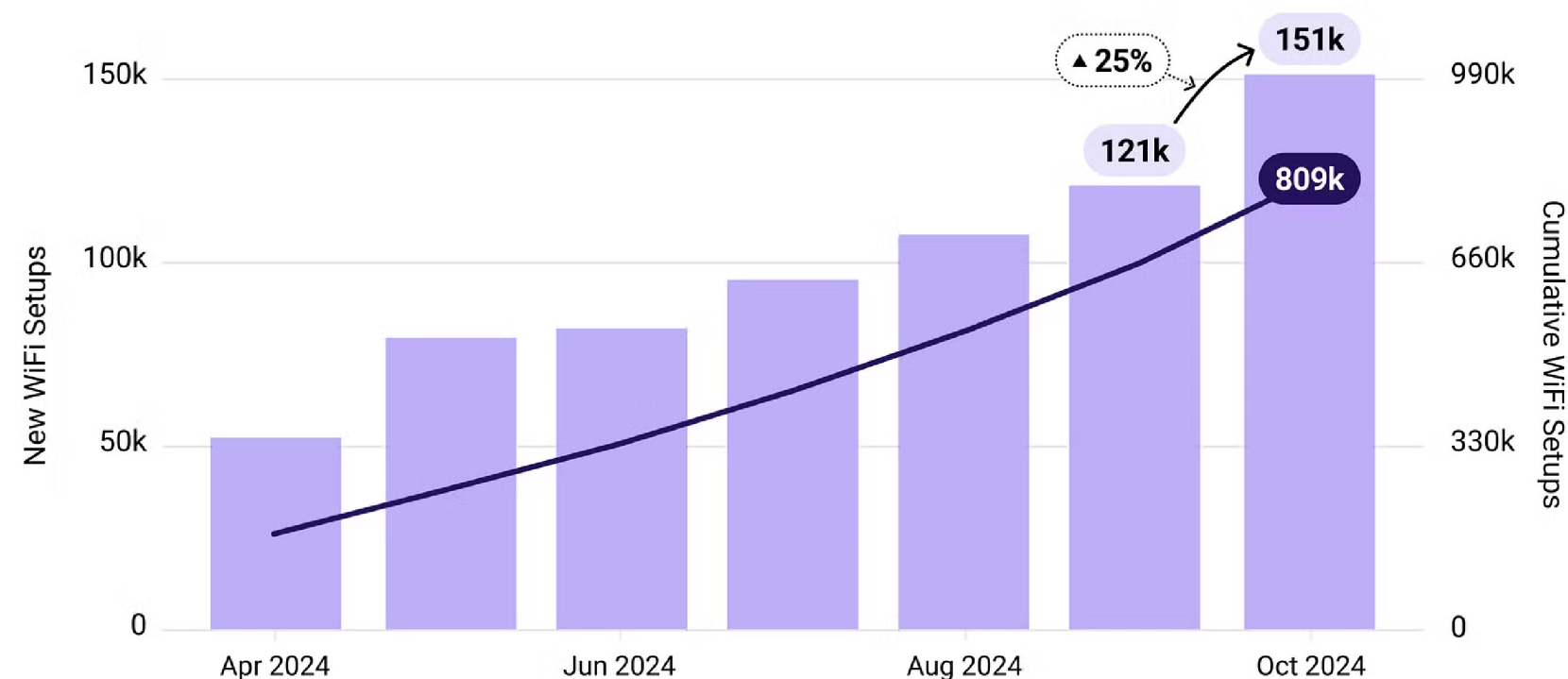
# New Roam WiFi setups reached an ATH.

Setups grew by 25%, and new users saw a slight October increase. The September introduction of an eSIM provided users access to 400 networks worldwide for 4G and 5G coverage, boosting growth.

## Roam New WiFi Setups

By Month

● New WiFi Setups — Cumulative WiFi Setups

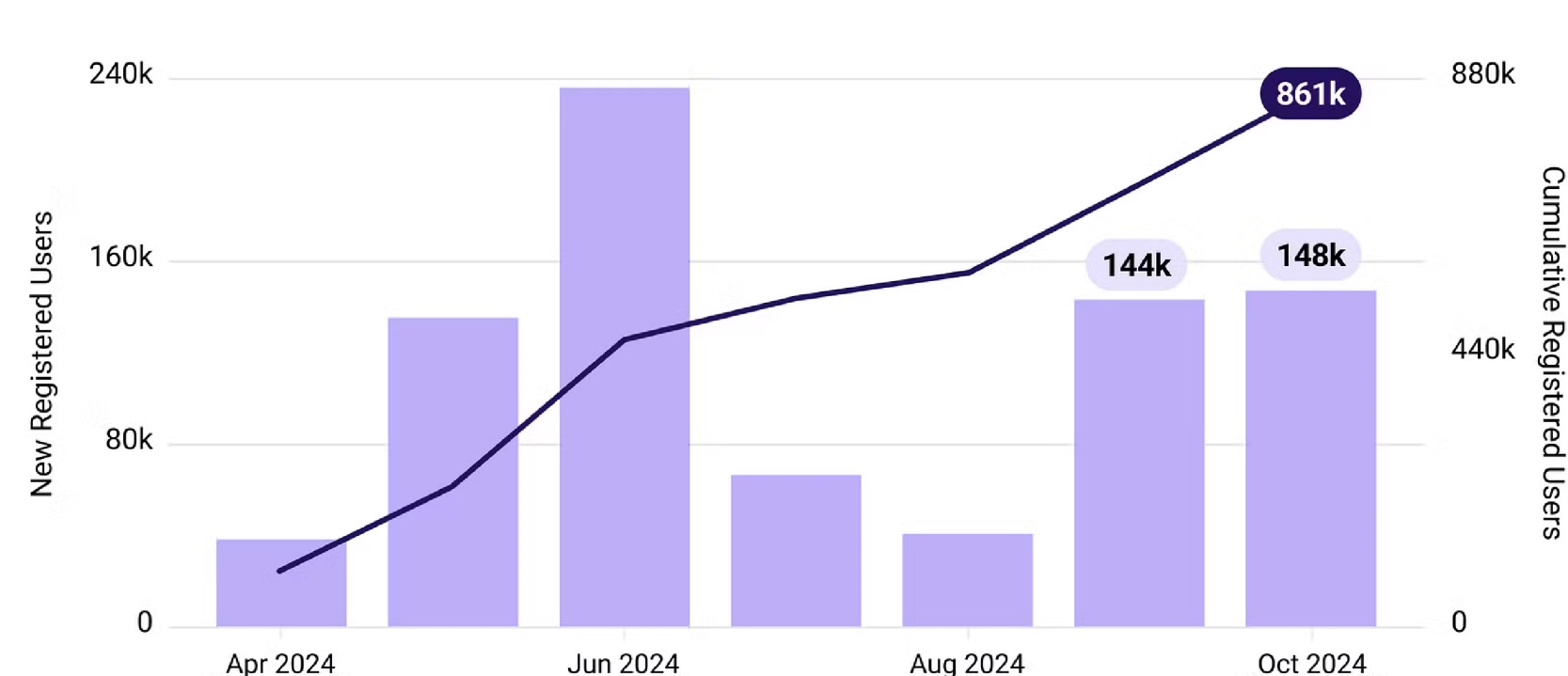


Note: Data has been sourced from Roam's website.

## Roam New Registered Users

By Month

● New Registered Users — Cumulative Registered Users



Note: Data has been sourced from Roam's website.



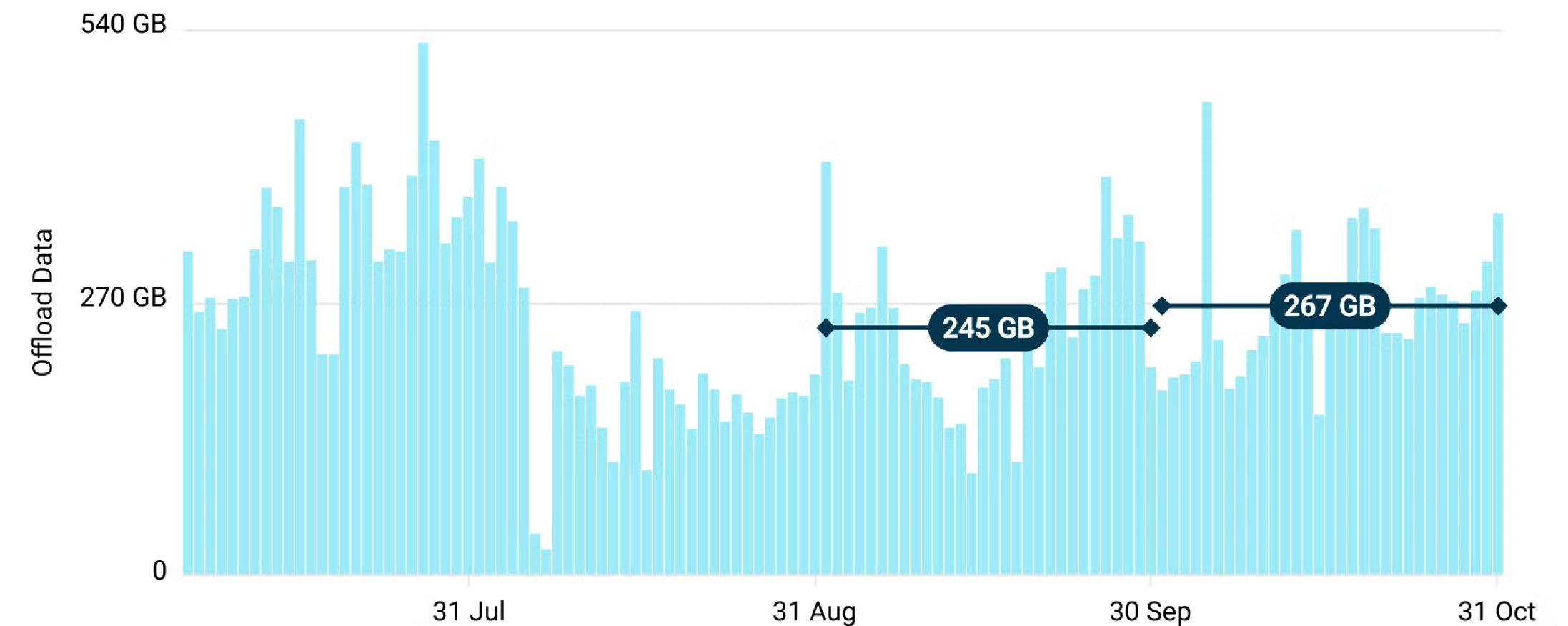
# XNET offload data has held strong.

The network began preproduction roaming with one of the largest U.S. Mobile Virtual Network Operators (unnamed) in October.

## XNET Offload Data

By Day

● Offload Data — Average Offload Data



Note: This data has been obtained from XNET's Dune dataset.

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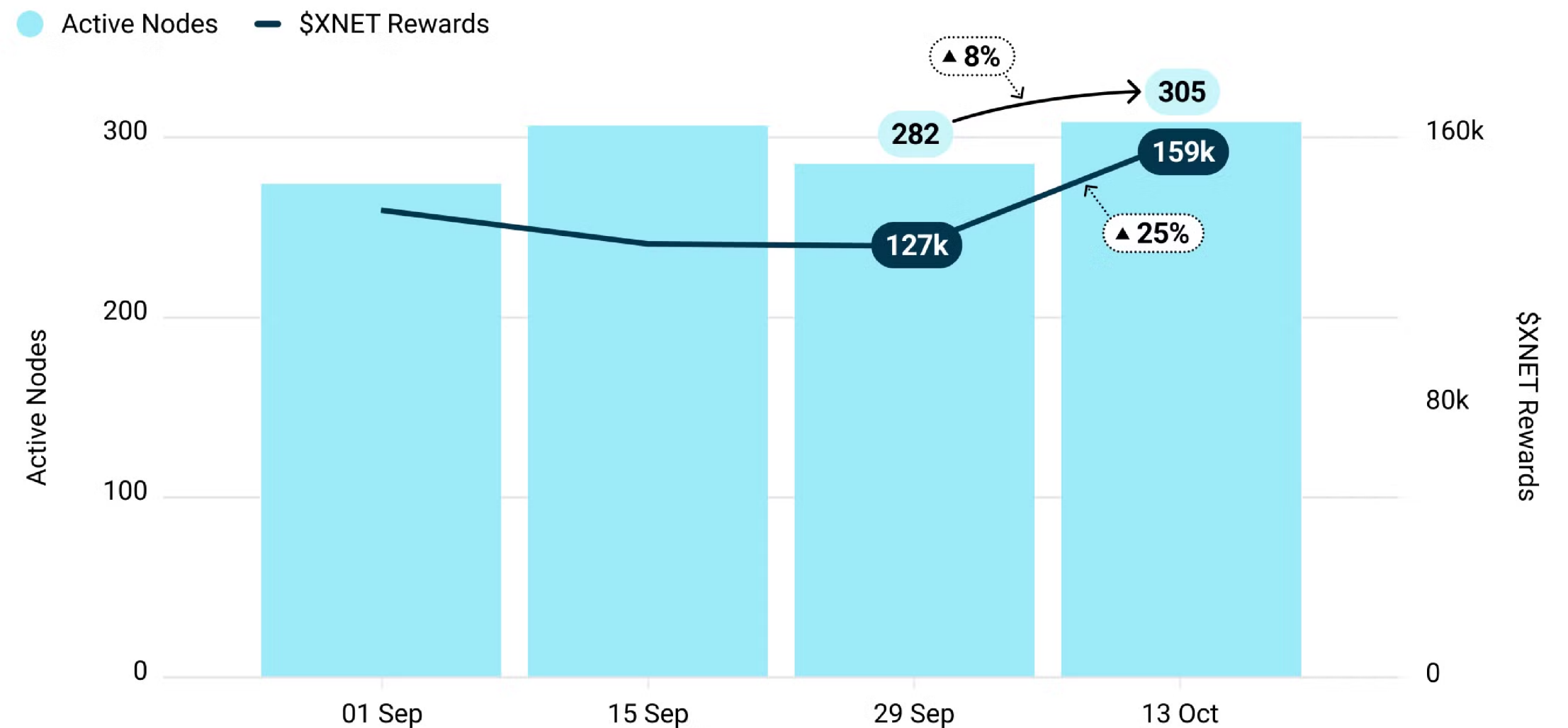


# XNET contributors are on the rise.

Active nodes increased 8% and \$XNET rewards increased 25% in October.

More contributors means better coverage for the network.

## XNET Contributors By Epoch



Note: This data has been obtained from XNET's Dune dataset.





Part II

# Compute, AI, & Data

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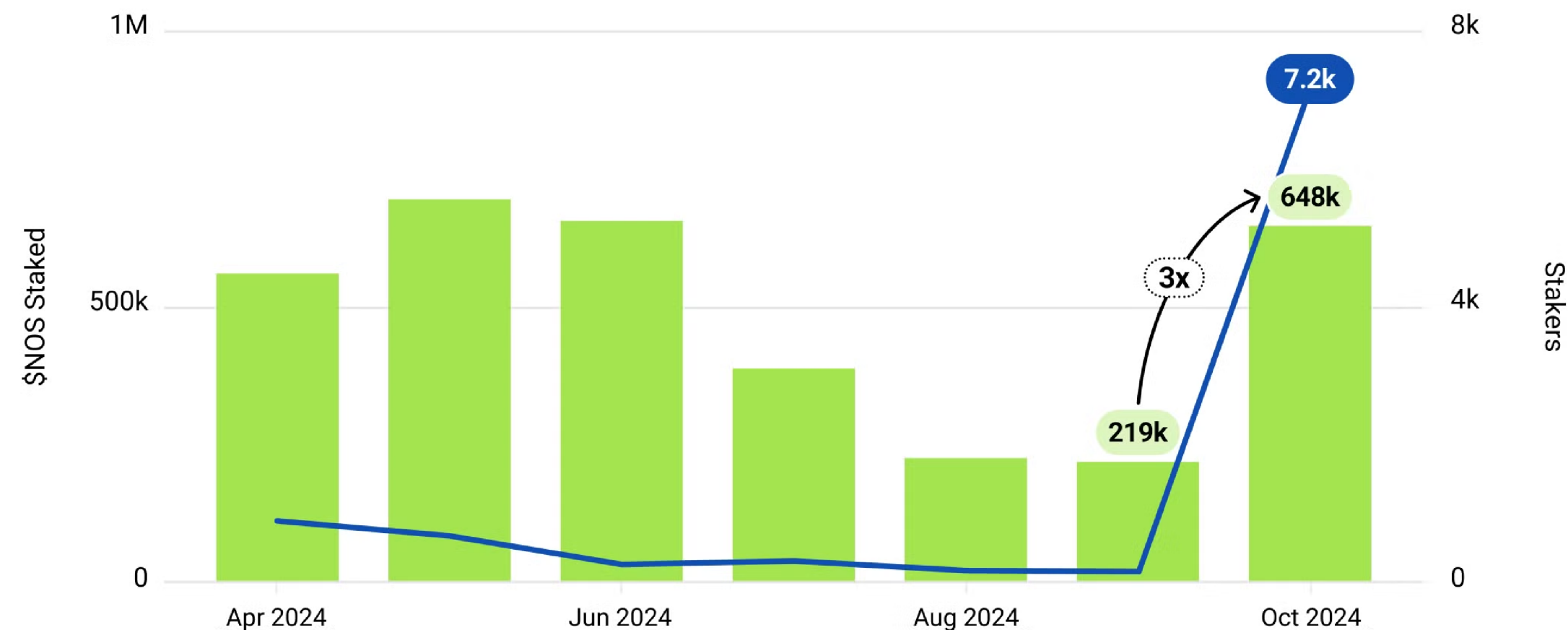
# Nosana staking surged.

Nosana's new staking requirement for all nodes drove stakers to an ATH, tripling staked \$NOS.

Staking enhances network security by serving as collateral for node operators and rewards stakers from transaction fees.

## Nosana Staking By Month

 \$NOS Staked  Stakers





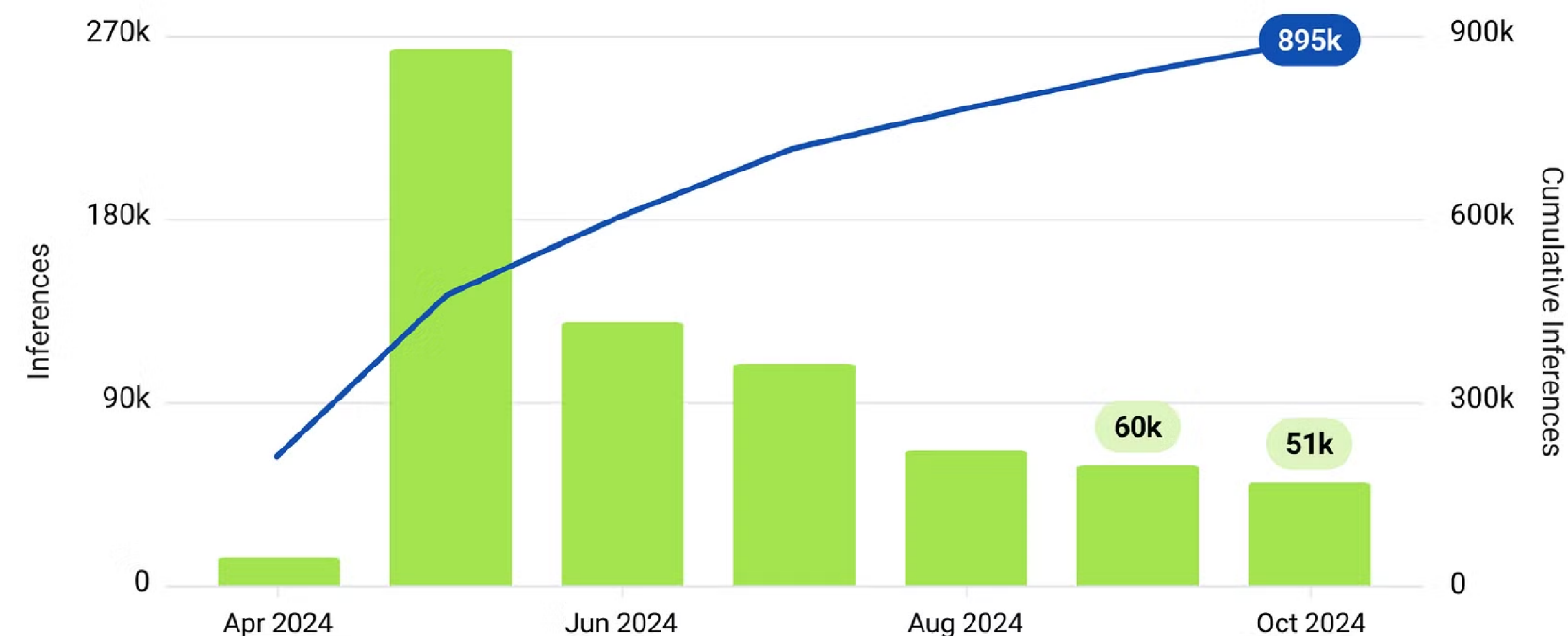
# Nosana activity tapered as the team made core improvements.

In October, the team prioritized network improvements, including staking requirements, dynamic pricing, GPU validation, and performance upgrades.

## Nosana Inferences

By Month

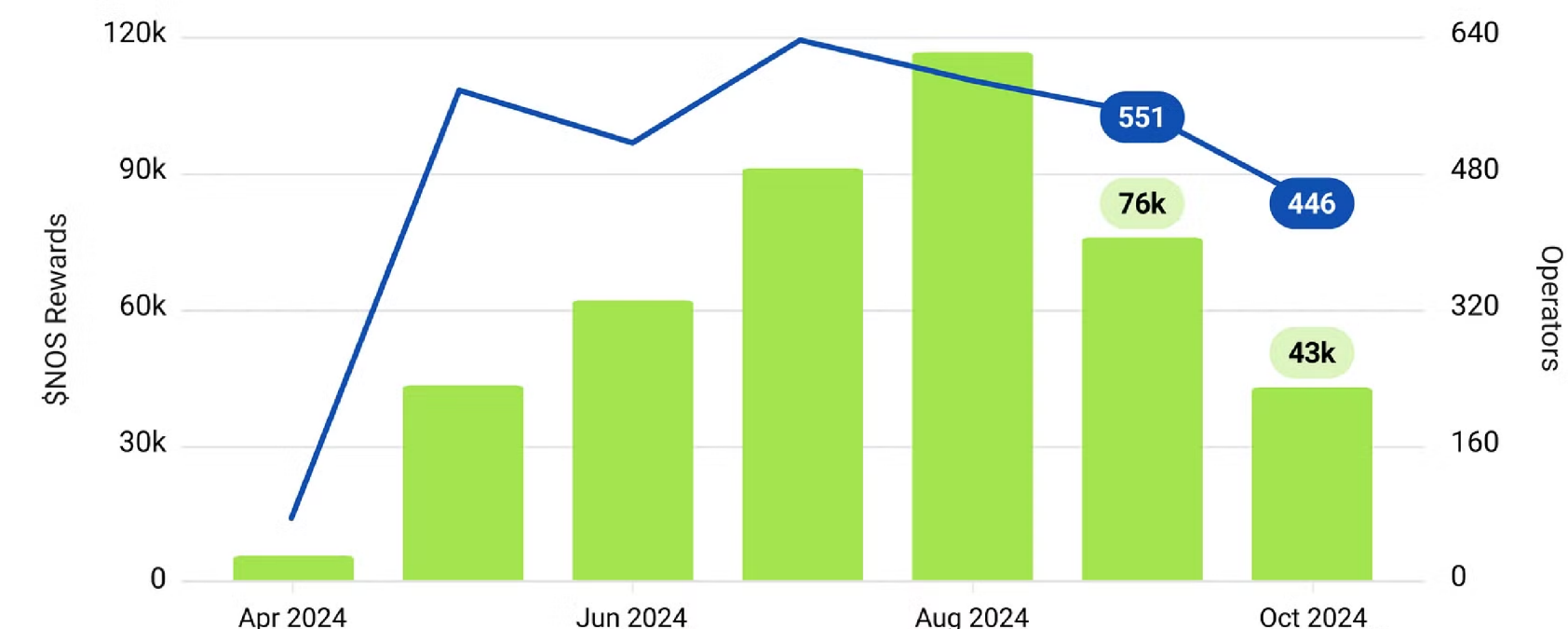
● Inferences — Cumulative Inferences



## Nosana Rewards and GPU Operators

By Month

● \$NOS Rewards — Operators





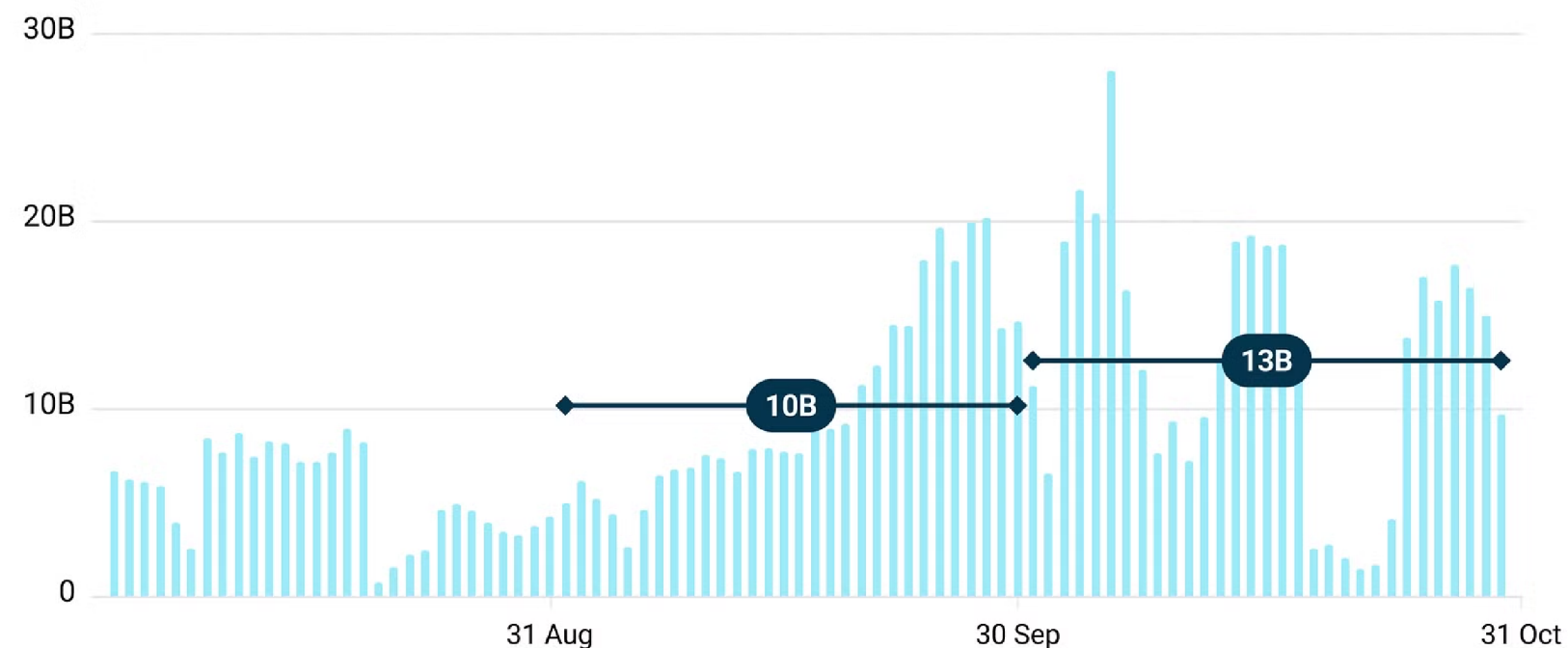
# Kuzco's point generation rose despite fewer GPUs.

This is likely due to increased inferences on active GPUs. Kuzco released a protocol update that required node upgrades, temporarily reducing GPU supply.

## Kuzco Points Awarded By Day

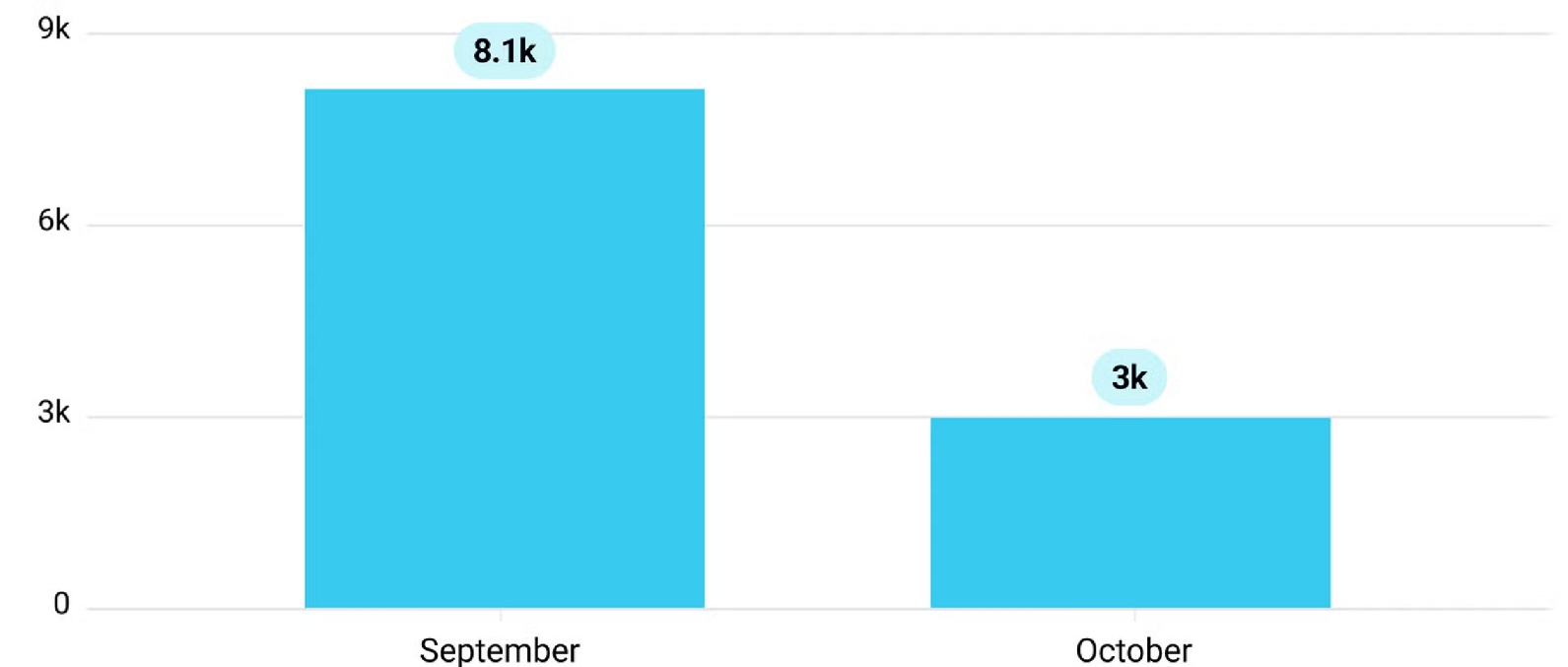


● \$KZO Points — Average \$KZO Points



Note: This data has been obtained from Kuzco's website.

## Kuzco GPUs By Month



Note: This data has been obtained from Kuzco's website.



# The long-anticipated Grass airdrop reached 1.6M wallets.

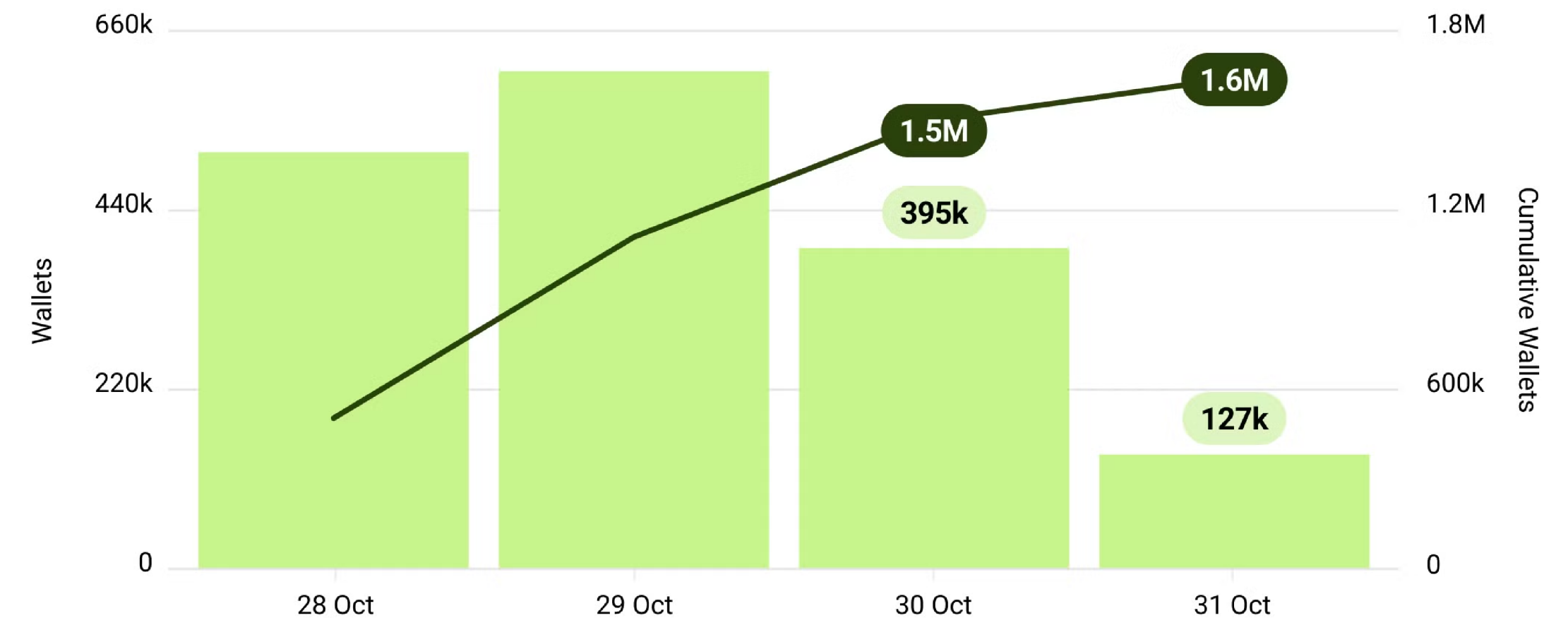
\$GRASS launched on October 28th with an airdrop for users who contributed idle bandwidth.

The airdrop indicates an impressive 1.6M nodes have been active on Grass.

## Grass Airdrop

By Day

● Wallets — Cumulative Wallets





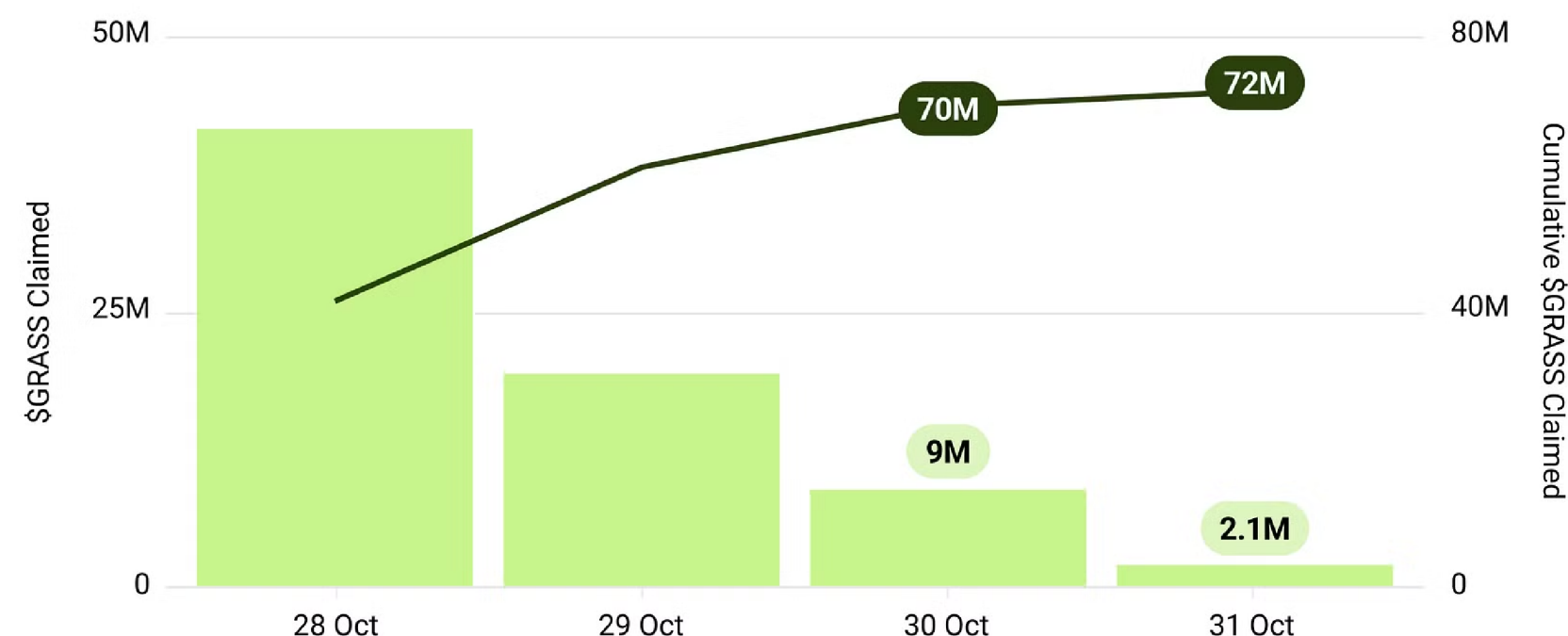
# More than 7% of the total \$GRASS supply was claimed.

The \$GRASS token distribution was largely equitable, with approximately 94% of wallets receiving no more than 100 tokens.

## Grass Airdrop

By Day

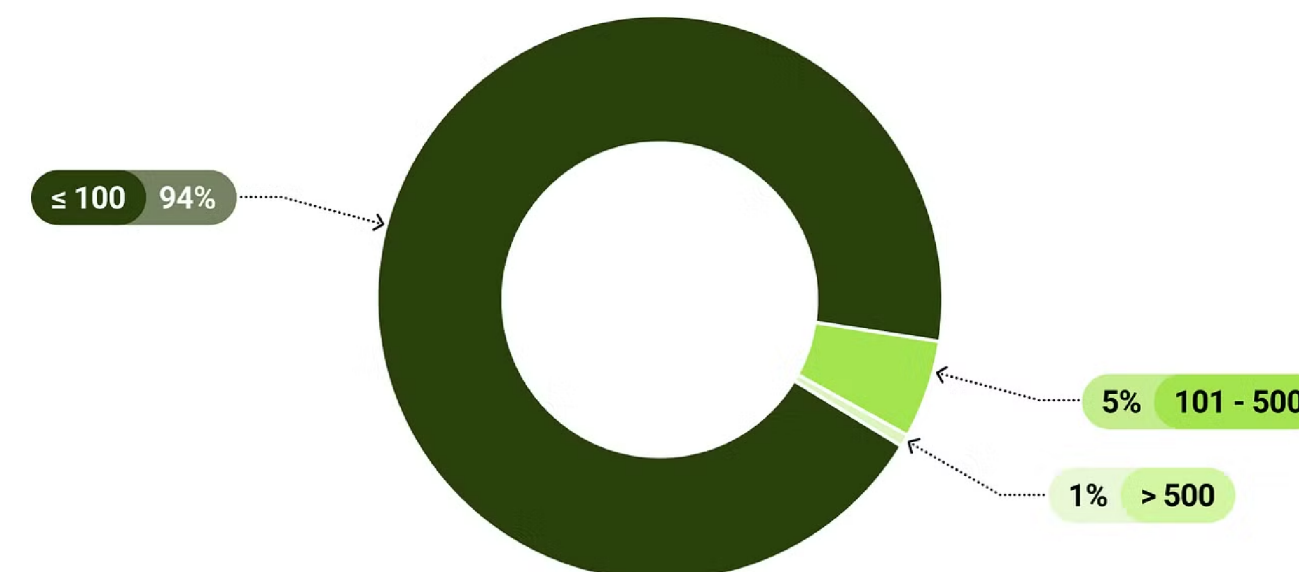
■ \$GRASS Claimed — Cumulative \$GRASS Claimed



## Grass Airdrop Proportion of Claimed Amount

By Number of Wallets

● ≤ 100 ● 101-500 ● > 500





# One-third of the Grass airdrop was staked.

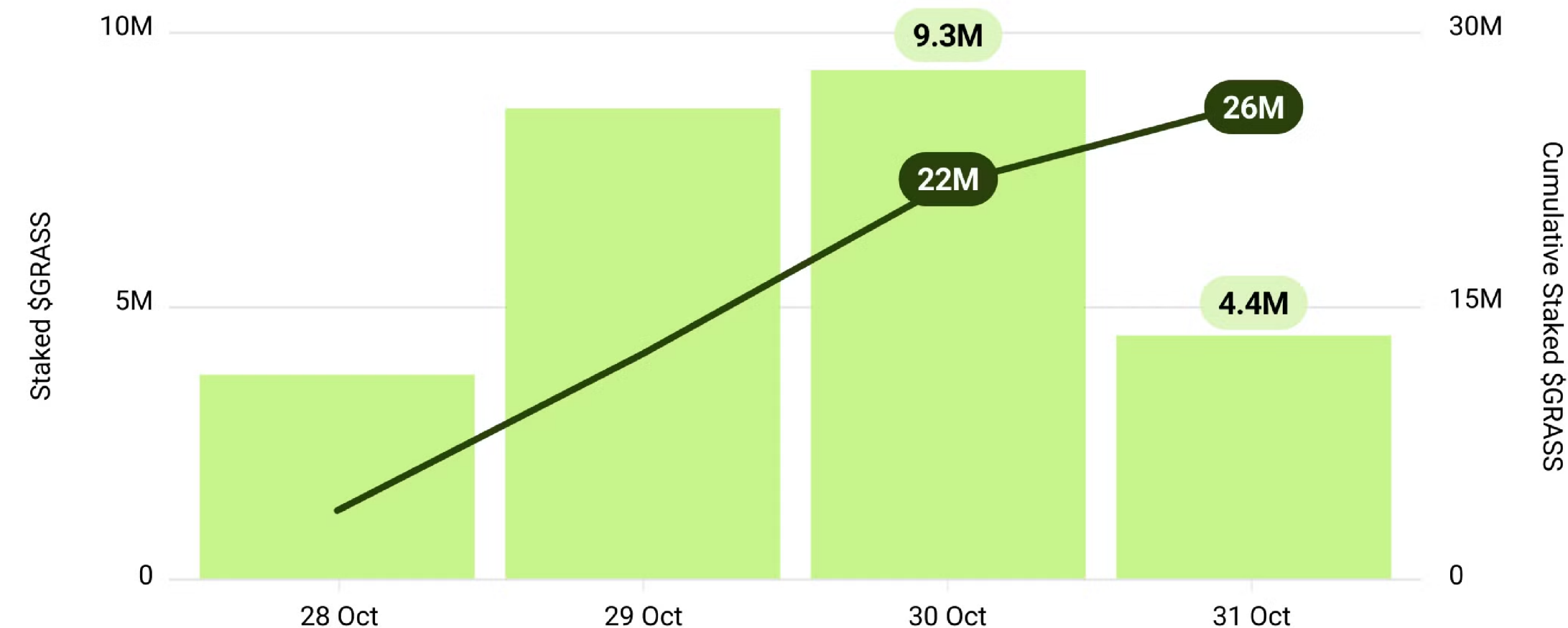
Staking enhances network security and earns interest rewards.

Even with a seven-day unstaking period, 26M of the 72M claimed tokens were staked—a positive sign for Grass.

## Staked \$GRASS

By Day

● Staked \$GRASS — Cumulative Staked \$GRASS



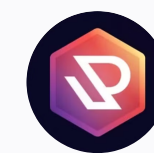


# Notable Developments



## Render Network

Render Network Cinema 4D Wizard has been expanded to support Redshift. The team also spoke at different conferences such as Permissionless 2024 in October.



## UpRock

UpRock's \$UPT token was listed in several centralized exchanges such as MEXC. The team introduced device verification to eliminate fraud.



## Nosana

Nosana's LLM Benchmarking research showed that consumer-grade hardware has advantages in cost efficiency and performance over enterprise hardware.



## Grass

Grass launched its token and staking mechanism. The team is now focused on stage 2 of the network, capturing the web by building a user-owned map.





# Part III

# Mapping

// October 2024





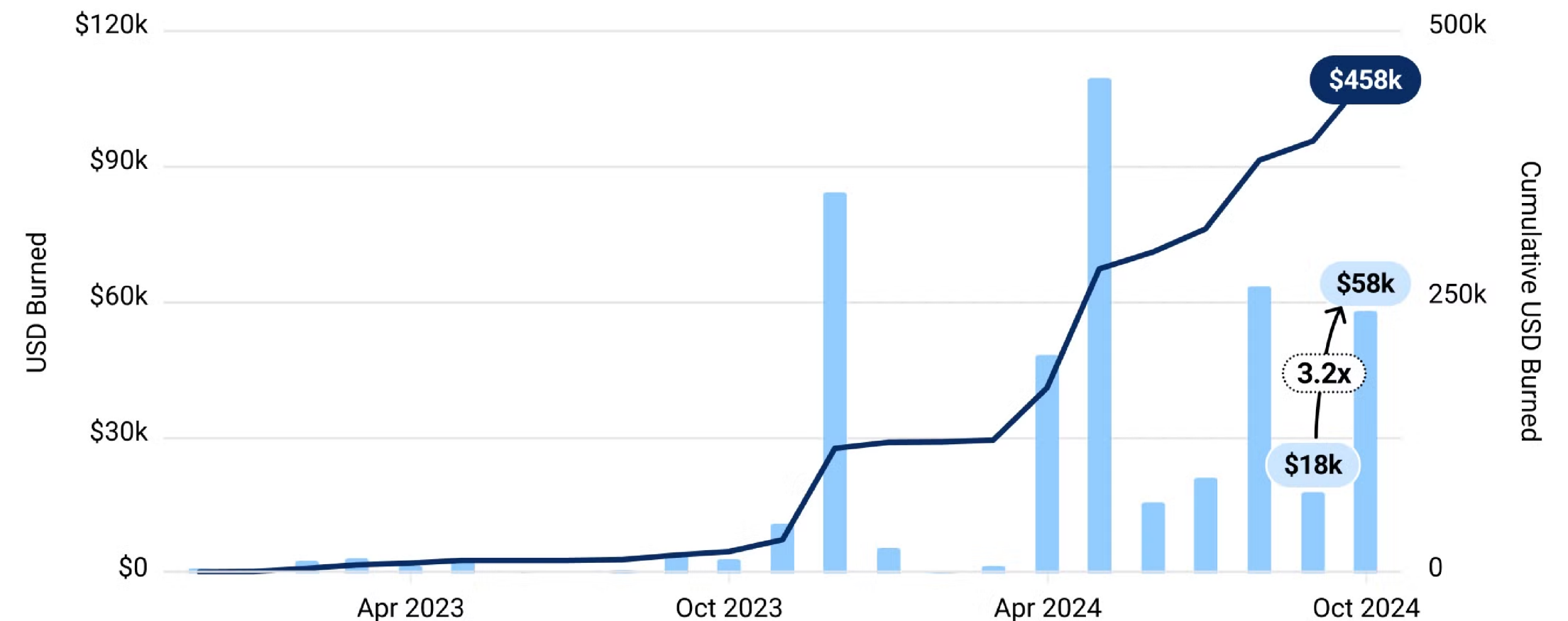
# Hivemapper demand is beginning to look more consistent.

Tripling in October, CEO Ariel Seidman (@aseidman) hinted on Twitter at growing demand in smaller customer accounts:

"Customers start small and then increase their usage dramatically as they build trust in Hivemapper data products."

## Hivemapper USD Burned By Month

● USD Burned — Cumulative USD Burned



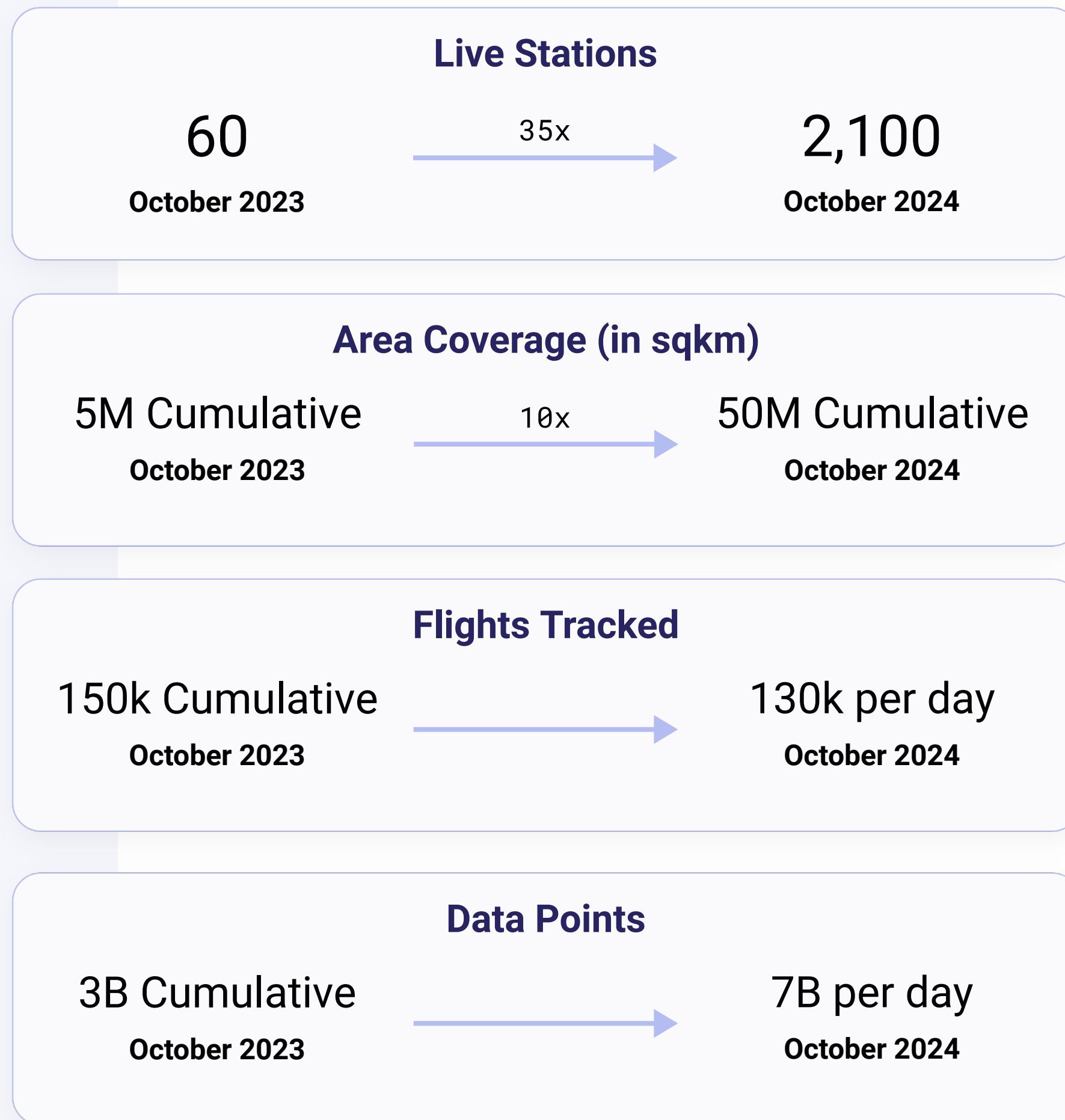


# Wingbits achieved rapid expansion in one year.

The protocol is developing a flight-tracking network and has experienced exponential growth across the board, deploying more stations, expanding coverage, tracking more flights, and collecting additional data points.

*Note: This data has been obtained from the Wingbits team.*

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# \$NATIX staking started strong.

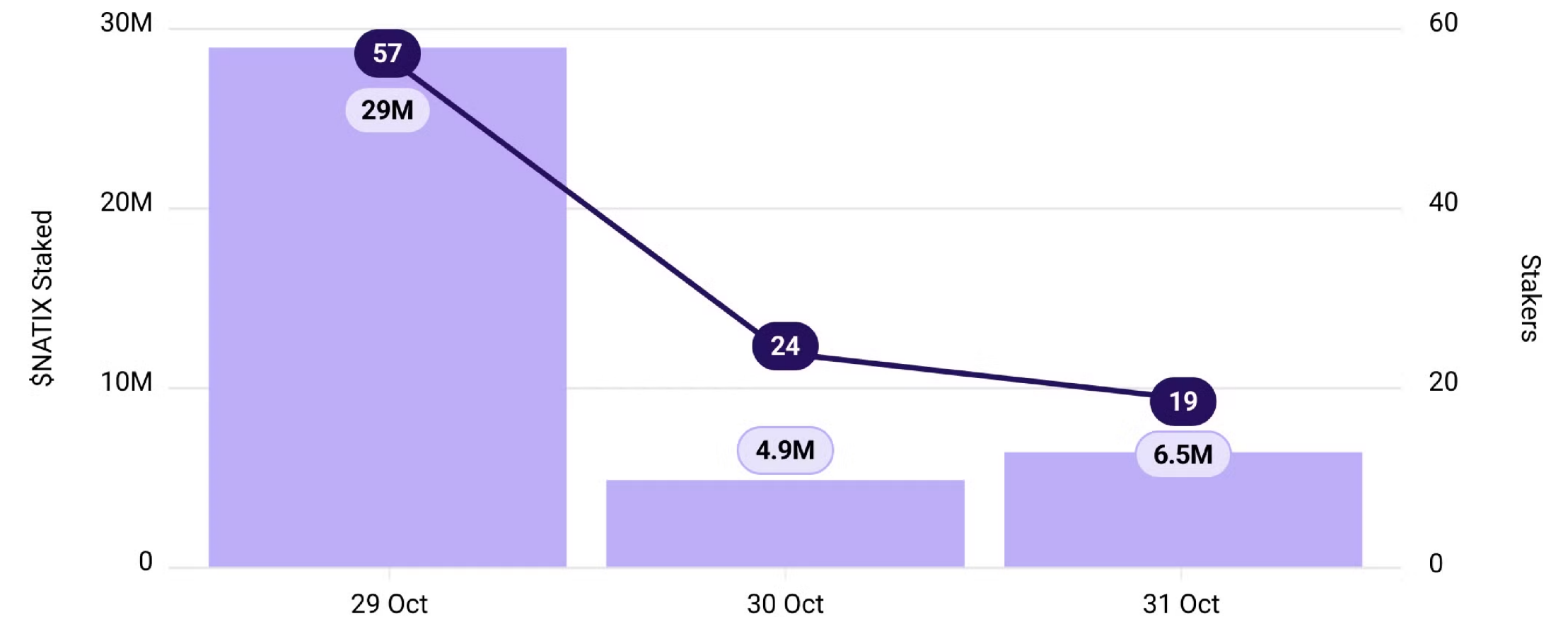
NATIX is building a crowdsourced geospatial data economy powered by cameras.

Staking launched on Oct 29, and users who participate in deep staking can become validator nodes responsible for verifying the network's data integrity.

## NATIX Staking

By Day

● \$NATIX Staked — Stakers







# Part IV Energy

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# Installed Starpower devices doubled in 3 months.

Starpower is building a network of energy devices to form a virtual power plant.

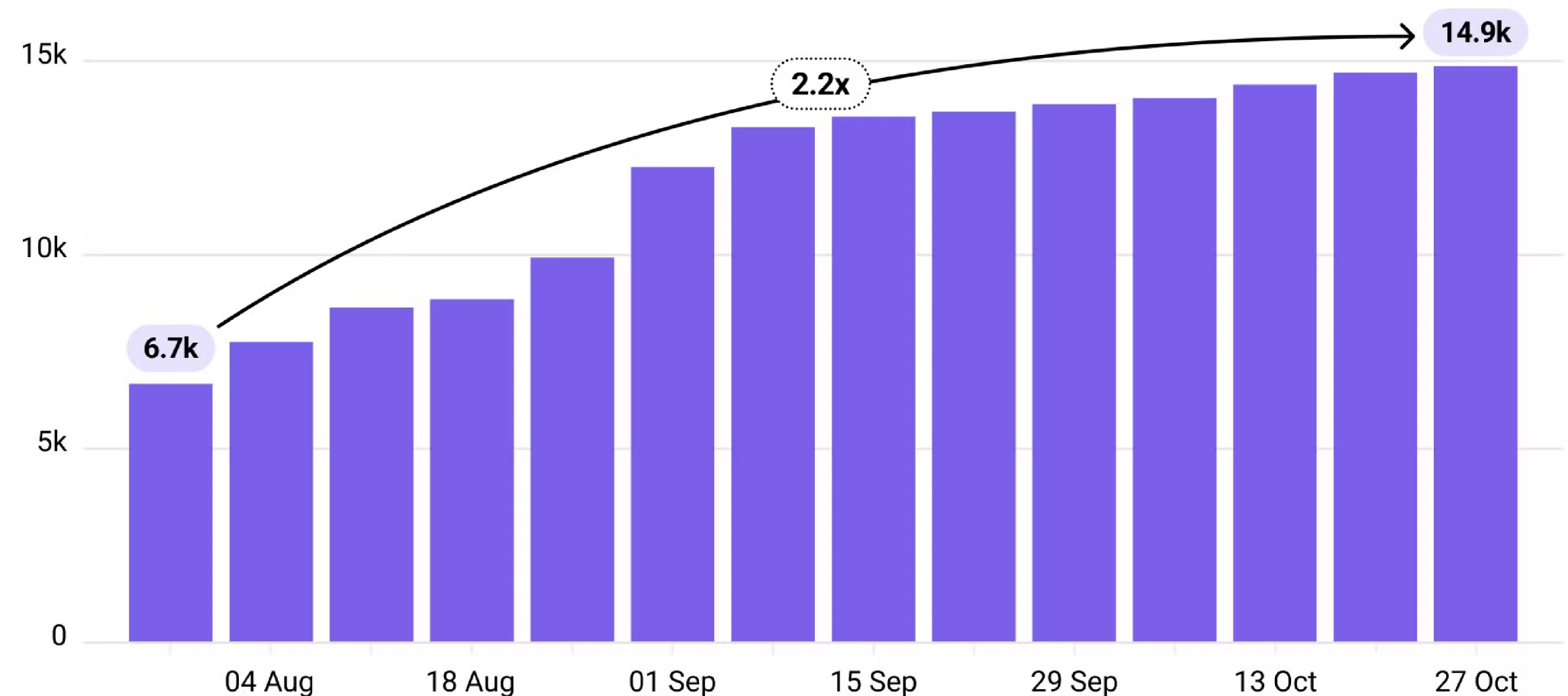
The device enables users to monitor their energy consumption, allowing them to optimize usage and contribute to a decentralized energy management network.

*Note: This data has been obtained from the Starpower team.*

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## Starpower devices

By Week



*Note: This data has been obtained from the Starpower team.*



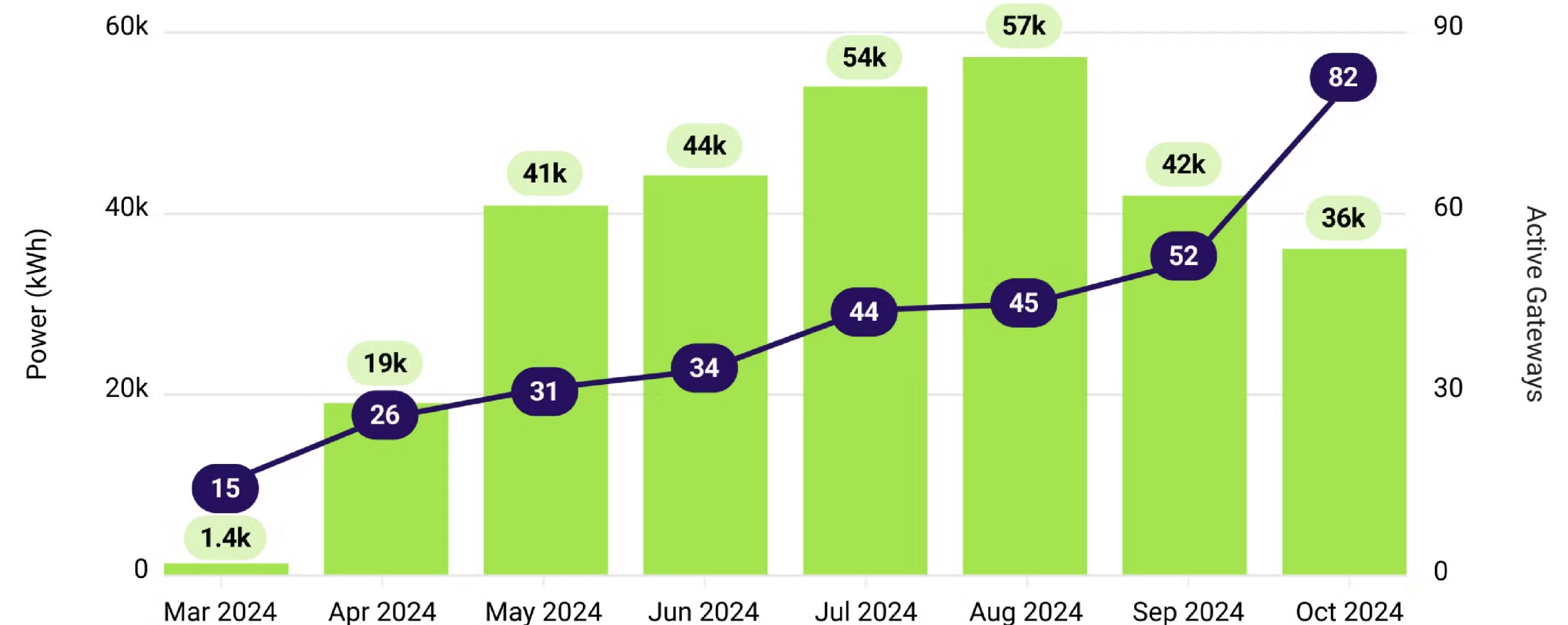
# Srcful devices continue to grow despite a decline in power production.

Srcful is building a community-led virtual power plant, tracking thousands of kWh monthly which reflects Sweden's seasonal patterns, where most devices are installed in homes.

During the summer months, power production reaches its peak.

## Srcful Power Production and Gateways By Month

● Power (kWh) — Active Gateways



Note: This data has been obtained from the Srcful API.

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