# Redefining Mobility, One EV at a Time

Battery Smart's Impact Report 2025

**Battery Smart**

# Our Vision

## Redefining Mobility, Reimagining Access

*Our vision is to make electric mobility accessible and affordable for all.*

By removing barriers such as high upfront costs, range anxiety, and long charging times, Battery Smart enables clean mobility that is practical, scalable, and inclusive.

A two-minute battery swap keeps vehicles moving and incomes steady for drivers who rely on mobility every day.
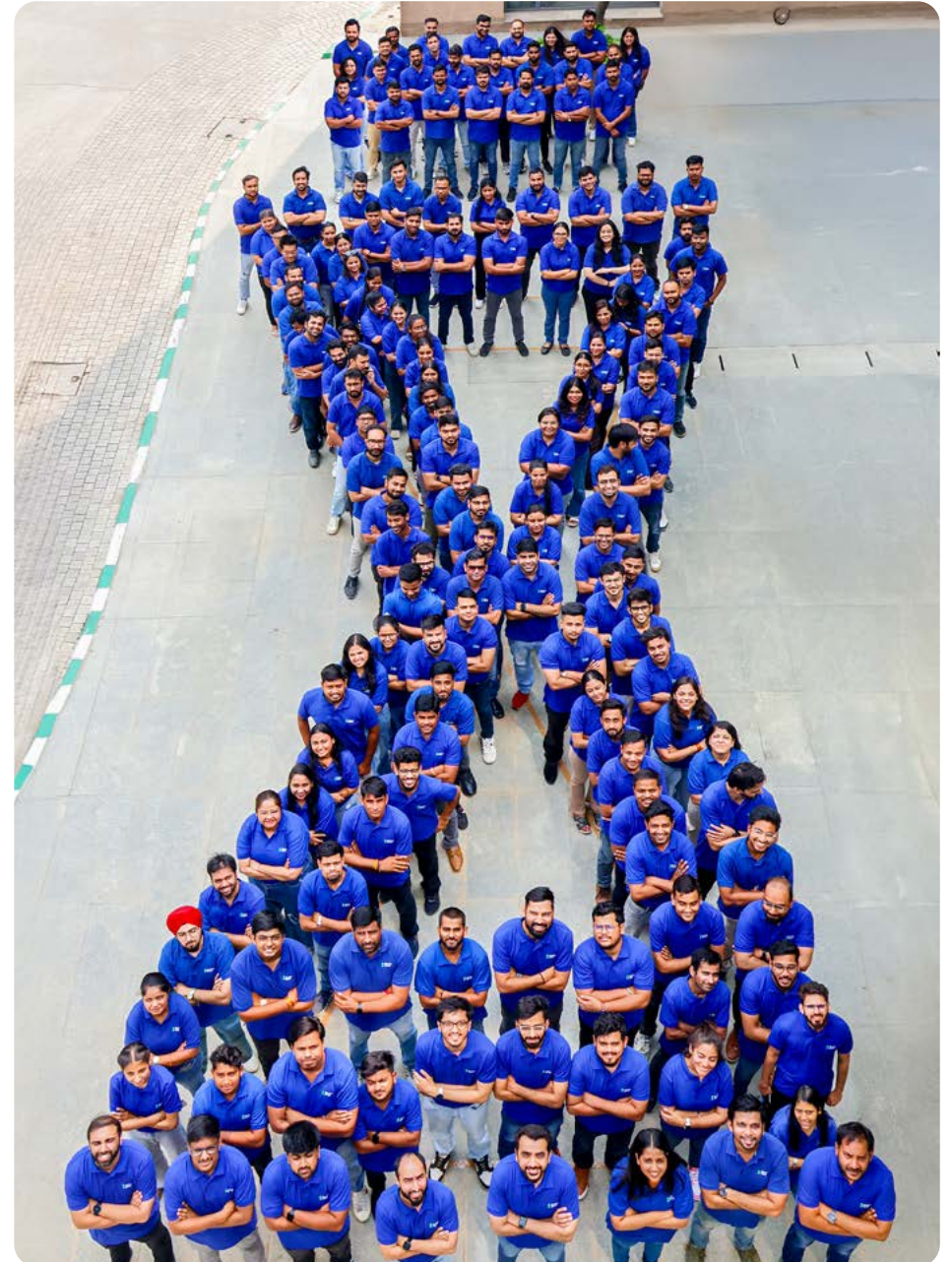
Founded in 2019 and headquartered in Gurugram, Battery Smart is building India's largest and fastest-growing battery swapping network for electric vehicles, enabling low-carbon choices that are affordable, practical, and impactful.

| | |
|---|---|
| Empowering **90K+** EV drivers | Operating Through **1,600+** Partner Swap Stations |
| Across **50+** Cities | Enabling **95 Mn+** Battery Swaps |

# From Challenge To Change

## Problems

- High upfront EV cost. Battery equals 40–50% of the vehicle price
- Charging constraints. Long wait times, downtime, range anxiety

## Interventions

- Interoperable IoT-enabled batteries. Pay-as-you-go model
- Dense swap network. 1,600+ stations across 50+ cities

## Inputs

- Technology platform. Real-time battery tracking and transactions
- Capital and partnerships. Station expansion, batteries, IoT systems

## Impact

- Driving Decarbonisation. 223K+ tCO₂e avoided, 3.2 Bn+ clean kilometres
- Prosperity and scale. $375 Mn+ EV drivers income enabled, 4,500+ direct jobs

## Outcomes

- Affordability and access. Lower upfront cost, batteries available in under two minutes
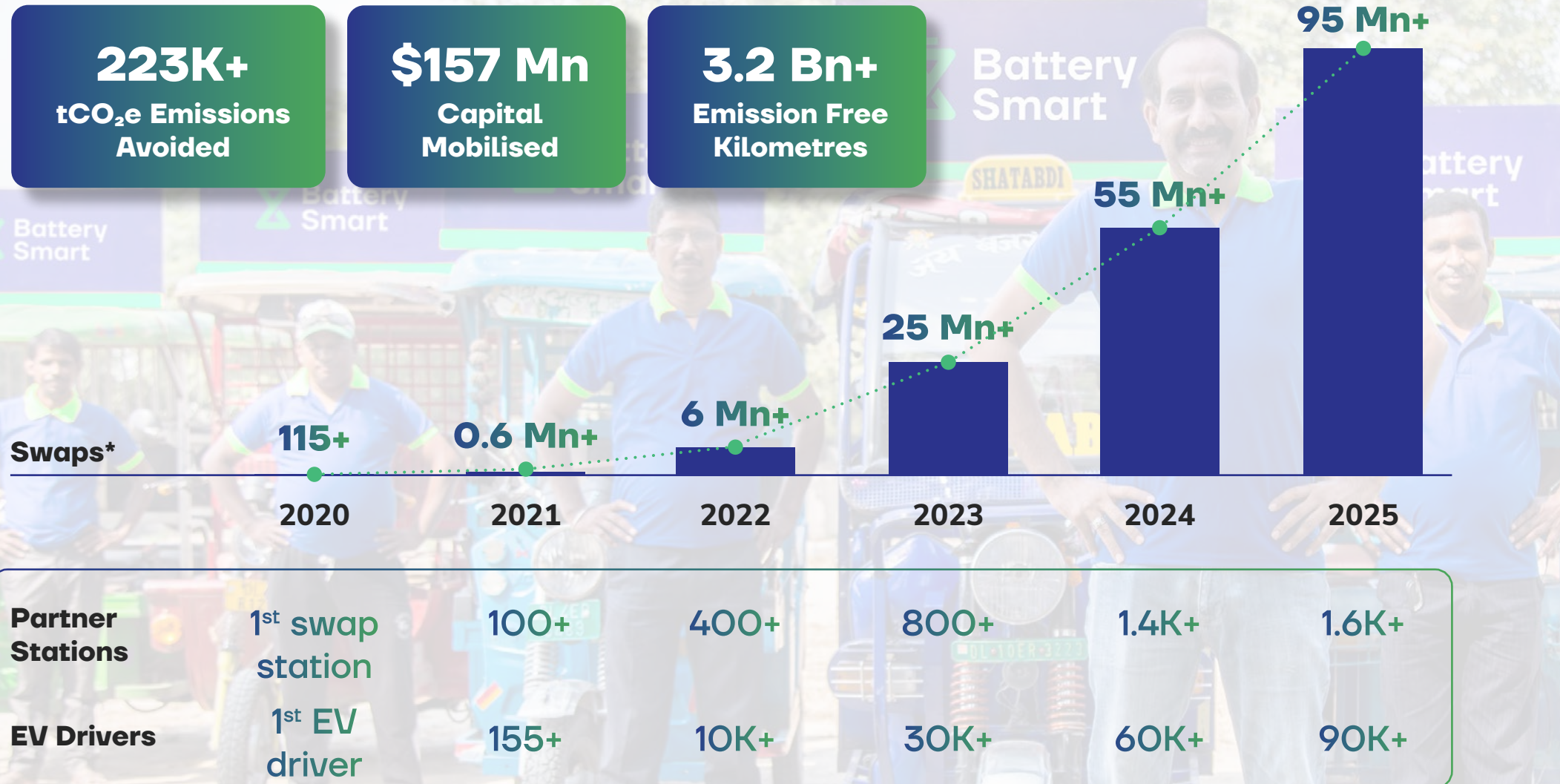- Availability and income stability. Extended operating hours for drivers

## Outputs

- 270K+ smart batteries deployed
- 95 Mn+ battery swaps enabled

# Our Journey

*From the first swap station to a national footprint, Battery Smart's growth reflects steady scale and system strength*

| 223K+ | $157 Mn | 3.2 Bn+ |
|---|---|---|
| tCO₂e Emissions Avoided | Capital Mobilised | Emission Free Kilometres |

$223K+$ — $tCO_2e$ Emissions Avoided

$157 Mn$ — Capital Mobilised

$3.2 Bn+$ — Emission Free Kilometres

**Swaps\***

| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|---|
| Swaps* | 115+ | 0.6 Mn+ | 6 Mn+ | 25 Mn+ | 55 Mn+ | 95 Mn+ |
| **Partner Stations** | 1st swap station | 100+ | 400+ | 800+ | 1.4K+ | 1.6K+ |
| **EV Drivers** | 1st EV driver | 155+ | 10K+ | 30K+ | 60K+ | 90K+ |

Swaps* - Lifetime swaps

# Pillars of Transformation

Three Pillars, One Purpose: Transforming Mobility at Scale



**Driving Decarbonisation**



**Powering Prosperity**



**Scaling Smart Systems**

| **223K+ tCO$_2$e** | **$375 Mn+** | **270K+** |
|---|---|---|
| Gross Avoided Emissions | Total EV Drivers Income Enabled | IoT-enabled Batteries Deployed |

| **3.2 Bn+** | **220 Mn+** | **$19 Mn+** | **4,500+** | **340+** | **7** |
|---|---|---|---|---|---|
| Emission Free Kilometres Driven | Litres of Fuel Saved | Total Partner Income Enabled | Direct Jobs Created | Driver Service Centres (DSC) | In-house Apps |

# Customer Spotlights

Every Kilometre Tells a Story

## Kailash
### E-rickshaw Driver

**1.5K+**
Battery Swaps

**50K+**
Emission Free Kilometres

Equivalent to Planting
**1.4K+**
Trees

## Urmila
### E-rickshaw Driver

**900+**
Battery Swaps

**34K+**
Emission Free Kilometres

Equivalent to Planting
**200+**
Trees

## Babita
### Network Station Partner

**92K+**
Battery Swaps

**$28K**
Revenue Enabled

Battery Deployment Increased from
**10** to **26**
(2023 onwards)

# Sustainability Highlights

Driving Responsibility Through Every Decision

## Climate Action

**0.77 tCO$_2$e**
Scope 1 emissions

**250.4 tCO$_2$e**
Scope 2 emissions

**53.12K tCO$_2$e**
Scope 3 emissions

## Supply Chain Resilience

**100%**
certified vendors across the battery value chain

Continuous monitoring of supplier compliance and environmental standards.

## Workforce & Safety

**667+**
Safety Training Sessions since January 2024

**37,882+**
man-hours of safety training completed

## Stakeholder Engagement

**340+**
Driver Service Centres, fully operational and community-linked.

**7**
Partner and Driver Townhalls held to share insights, gather feedback, and co-design solutions.

## Product Excellence

**IoT-enabled Smart Battery Management System** with predictive diagnostics ensures reliability, longevity, and safe lifecycle tracking.

7

# CONCLUSION

## Vehicle Cost



**Before Battery Smart**
High upfront cost

**Battery Smart Ecosystem**
Affordable EV adoption

## Charging Time



**Before Battery Smart**
Long charging delays

**Battery Smart Ecosystem**
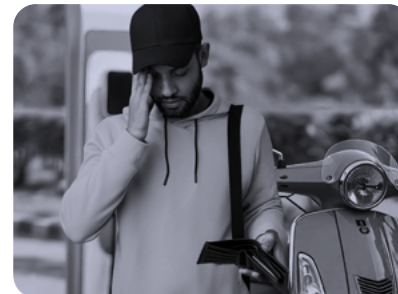Two-minute swaps

## Range Anxiety



**Before Battery Smart**
Fear of discharge

**Battery Smart Ecosystem**
Reliable swap access

## Driver Earnings



**Before Battery Smart**
Income loss delays

**Battery Smart Ecosystem**
Earnings uninterrupted

# OUR AWARDS AND ACHIEVEMENTS

**2021**

Times 40 Under 40

**2022**

Switch Delhi EV Award

Fortune India 40 Under 40 Leaders

EMobility Award

**2023**

Company of the Year EV Battery Tech

The 2023 Meaningful Business 100

Fortune India 40 Under 40 Leaders

**2024**

India EV Awards

Deloitte Tech Fast 50 India

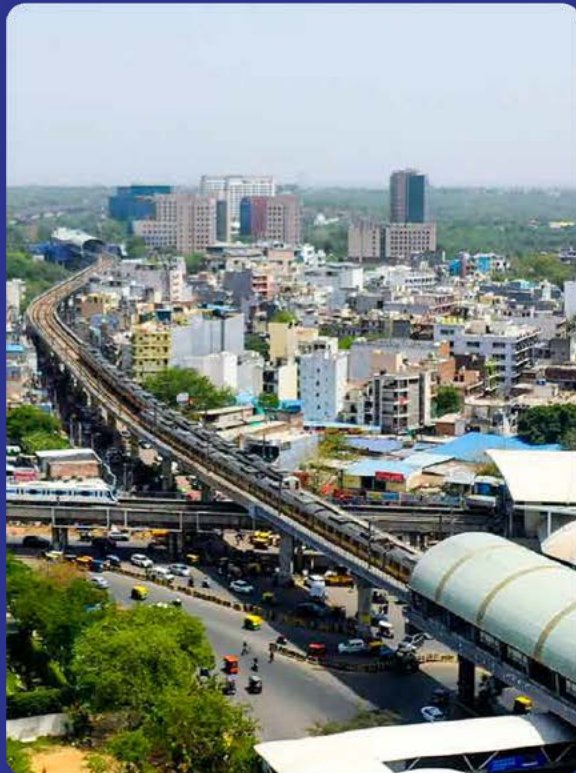Infrastructure Champion Award

**2025**

APAC Cleantech 25

Best Sustainability Solution

# Transforming the Future of Mobility

*We are on a mission to make electric mobility accessible and affordable for all.*

The work continues beyond these pages.
Clean mobility moves forward with
every swap, every driver, every city.

# Kabhi Rukna Nahi

**Read the full
Battery Smart Impact Report 2025**